December 2, 2013
SES-LTM/O-13-0762
4.0 / Deliverables

Mr. Aaron Vernik
Naval Facilities Engineering Command Northwest
1101 Tautog Circle, Suite 203
Silverdale, WA 98315-1101

SUBJECT: FINAL TECHNICAL MEMORANDUM, EVALUATION OF ADAK ISLAND BLUE MUSSEL AND ROCK SOLE TISSUE, 2013 MARINE MONITORING, FORMER NAVAL FACILITY, TASK ORDER 67, ADAK, ALASKA

Ref: Contract N44255-09-D-4005, Long Term Monitoring/Operations Contract

Dear Mr. Vernik:

This technical memorandum (letter report) provides an evaluation of polychlorinated biphenyl (PCB) concentrations in northern rock sole (*Lepidopsetta polyxystra*[1]) and blue mussel (*Mytilus edulis*) specimens collected from Bay of Islands, Sweeper Cove, and Kuluk Bay at Adak Island, Alaska (Figure 1) in 2013 and concentrations found during previous biological sampling efforts performed from 1996 through 2011. The report summarizes the field sampling program conducted in June 2013 to obtain the required biological samples, including the procedures used to collect and process samples and the methodologies used to analyze those samples. This biological sampling task and report have been performed by Sealaska Environmental Services (SES) and the URS Group (URS) (under contract to SES) as part of Task Order 67 Long-Term Marine Monitoring, Adak, Alaska, under Navy Long-Term Monitoring/Operations (LTM/O) Contract N44255-09-D-4005.

Executive Summary

The primary conclusions drawn from the evaluation of the tissue data collected from 1999 through 2013 are as follows:

1. The mean total PCB concentrations in rock sole from Sweeper Cove and Kuluk Bay decreased between 2011 and 2013.

[1] The rock sole in the ongoing monitoring effort was previously identified as *Lepidopsetta bilineata*; however, rock sole was separated into two species present along the western U.S. coast and Aleutian Islands: southern rock sole (*Lepidopsetta bilineata*) and northern rock sole *(Lepidopsetta polyxystra)* based on work by Orr and Matarese in 2000.

2. The mean total PCB concentration in rock sole from Sweeper Cove is above the risk-based action level (RBAL) of 6.5 micrograms per kilogram (µg/kg).
3. The mean total PCB concentration in rock sole from Kuluk Bay is less than the RBAL.
4. The mean total PCB concentrations in blue mussels from Sweeper Cove and Kuluk Bay decreased between 2011 and 2013.
5. The mean total PCB concentration in blue mussels collected in 2013 from Sweeper Cove remained slightly above the RBAL of 31 µg/kg and was affected by localized areas of relatively higher concentrations.
6. The mean total PCB concentration in blue mussels collected in 2013 from Kuluk Bay remained below the RBAL
7. The mean total PCB concentrations in rock sole and blue mussel samples collected in 2013 from Bay of Islands (background area) were similar to historical concentrations measured between 1999 and 2003. Therefore, a change in global PCB concentrations is not evident based on these results.

SES and URS recommend that the Navy maintain current fish consumption advisories (fish here is taken to mean both finfish and shellfish). Current fishing advisories are in place for rock sole and blue mussel from Sweeper Cove and rock sole from Kuluk Bay. Although the mean total PCB concentration in rock sole from Kuluk Bay is now less than the RBAL and there is an apparent decreasing trend, additional data from another monitoring event should be collected to confirm whether the removal of the related fishing advisory is warranted. The status of the consumption advisory should be assessed after sampling results from the planned 2015 sampling event are evaluated. SES and URS also recommend the continuation of blue mussel and rock sole monitoring in 2015 at the same locations in Sweeper Cove and Kuluk Bay. This recommendation is based on the assessment of the data collected through 2013. The requirement for future marine tissue monitoring should be evaluated after the 2015 sampling event. The Navy does not anticipate sampling in the Bay of Islands again in the foreseeable future.

Objective

The objective of the marine fish and shellfish monitoring program at Adak is to determine temporal trends in the PCB concentrations in fish and shellfish from Adak that may be consumed by humans and whether institutional controls (i.e., fish consumption advisories) on fish and shellfish from Kuluk Bay and Sweeper Cove can be removed. An additional objective for the 2013 sampling effort was to evaluate the current background PCB concentrations in fish and shellfish from the Bay of Islands and compare the results to historical background PCB concentrations.

In 2003, the 5-year marine sampling program required by the Record of Decision (ROD) was completed for Operable Unit A (OU A) of the former Adak Naval Complex. Those 5 years of data established the baseline that was evaluated for temporal trends. The 2003 technical

memorandum for marine monitoring recommended continued sampling for rock sole and blue mussel from Sweeper Cove and Kuluk Bay at a frequency of every other year (2005, 2007, and 2009) through the next 5-year review period to evaluate the changes in total PCB concentrations. Because PCB concentrations were not below levels of concern, the 2009 technical memorandum recommended continued sampling for rock sole and blue mussel from Sweeper Cove and Kuluk Bay in 2011 and 2013.

Description of the Marine Monitoring Program for Adak

As part of the ROD for OU A, remedial action criteria were established for total PCB concentrations in marine fish and shellfish. The RBAL PCB concentrations are 6.5 µg/kg for marine fish and 31 µg/kg for marine shellfish. Rock sole and blue mussels were selected for evaluation as the key species for fish and shellfish, respectively, because they are readily available sources of seafood at Adak. Rock sole were selected over halibut because halibut are not readily available in Kuluk Bay and Sweeper Cove. Halibut generally feed in deeper waters. Although the rock sole do not stay in one place over the course of their life, they have a limited home range compared to halibut. Halibut in the vicinity of Adak and surrounding islands dispersed from their initial location an average distance of 61 km in one year from their original location based on a 2009 annual study by International Pacific Halibut Commission. The maximum dispersal distance of one halibut from the Aleutian Islands during one year according to this study was 2,951 km. Therefore, PCB concentrations in halibut would not reflect the results of exposure to PCBs in the environment of Kuluk Bay or Sweeper Cove. Although subsistence fishers may prefer other types of seafood (i.e., halibut), rock sole and blue mussel are the best indicator species that reflect the impact of PCBs on readily available seafood in Sweeper Cove and Kuluk Bay based on marine monitoring since 1996.

PCB concentrations in fish or shellfish above the RBAL have a potential to pose unacceptable human health risks to subsistence consumers under the subsistence exposure scenario outlined in the ROD. Within the ROD, unacceptable carcinogenic risks are defined as risks greater than 1.0×10^{-5}, based on Alaska State regulations. Both marine fish species and blue mussels from Sweeper Cove and marine fish from Kuluk Bay contained total PCB concentrations in excess of the RBALs at the time the ROD was signed. Because of these exceedances, a consumption advisory on fish and shellfish from Sweeper Cove and Kuluk Bay has been in place for several years. Adak residents receive fact sheets periodically regarding the fish consumption advisory for Sweeper Cove and Kuluk Bay.

The Navy has developed surveys that have included annual interviews to evaluate the resident's awareness of the fish consumption advisory. According to the 2012 Institutional Controls Site Inspection Report dated April 26, 2013, 8 of 10 residents interviewed in 2012 were aware of the fish consumption advisory. Two subsistence fishers responding to the survey indicated that they do not eat rock sole or blue mussel.

In 2004, the advisory for the consumption of blue mussels from Kuluk Bay was removed because the mean total PCB concentrations in blue mussels from Kuluk Bay for 1999 through 2003 were consistently below the RBAL. The mean concentration level was above the RBAL in 2005. However, the project team (Alaska Department of Environmental Conservation [ADEC], U.S. Environmental Protection Agency [EPA], and the Navy) agreed not to reinstate the consumption advisory for blue mussels in Kuluk Bay, at least until the 2007 sampling was complete and the data trends could be analyzed. After the 2007 sampling results were evaluated, the advisory for mussels in Kuluk Bay was not reinstated for the following primary reasons:

- No strong trend was suggested by the data.
- Collecting shellfish from locations 1 and 2 in Kuluk Bay is much more difficult than it is at other on-island sources because of wave conditions and steep rocky slopes with slippery surfaces.
- The mean total PCB concentrations were below the RBAL for seven of the last eight sampling events (1996 through 2007).

In conjunction with regulatory agencies, the Navy developed a Comprehensive Monitoring Plan (CMP) published in 2001 (Revision 5 in 2012), which included the Sampling and Analysis Plan (SAP) for the monitoring of fish and shellfish. An addendum to the SAP was prepared prior to the 2013 field work to include the collection of rock sole and blue mussel from the Bay of Islands to evaluate whether global trends in PCB concentrations were evident. The marine monitoring program is designed to document the effectiveness of remedial actions on Adak and to make a determination of whether the fish consumption advisories need to remain in place. This technical memorandum evaluates the total PCB concentrations in rock sole and blue mussel tissue collected in 1999-2003, 2005, 2007, 2009, 2011, and 2013 from Sweeper Cove and Kuluk Bay. In 1999, remedial actions were completed to control known sources of PCBs affecting Sweeper Cove and Kuluk Bay.

According to the CMP (or project-specific sampling plan prior to 2001), background samples were collected from the Bay of Islands in 2000 and 2003 (rock sole) and annually from 1999 through 2003 (blue mussel). Samples were collected from the Bay of Islands (the reference area) in 2013 for the first time since 2003 after the background values were established in 2003 as part of the 5-year baseline study. The background values from the first five years of the Adak marine monitoring were documented in the 2003 technical memorandum.

Fish Consumption Advisory Description and Risk-Based Action Level Derivation

The calculation of the RBALs for Adak fish (6.5 µg/kg PCB) and shellfish (31 µg/kg PCB) was documented in section 6.1 of the OU A ROD prepared in 1999 and is summarized here. The Adak fish consumption advisory presented in the ROD is expressed in terms of the maximum allowable PCB concentration in fish and shellfish (i.e., the RBAL).

The fish consumption advisory describes the maximum amount of fish that can be consumed without posing an unacceptable risk to humans. Unacceptable risk for carcinogenic chemicals, a

group that includes PCBs, is defined as a lifetime 1 x 10^{-5} (1 in 100,000) excess cancer risk. This maximum excess lifetime cancer risk is defined in Alaska State regulations. Once the maximum acceptable risk has been identified, the amount of fish consumed and the concentration of chemicals the fish contains determine whether the risk to an individual exceeds the maximum acceptable risk.

An exposure scenario, in the context of the Adak fish consumption advisory, defines how people obtain and consume fish and shellfish from Sweeper Cove and Kuluk Bay. The exposure scenario describes how often people consume fish, how much fish is consumed, the portion of a lifetime an individual consumes fish, where the fish are obtained, and how much of the total fish consumed comes from Sweeper Cove and Kuluk Bay. To estimate the maximum permissible concentration of PCBs in fish tissue (i.e., the RBAL), the exposure scenario is combined with the maximum allowable risk level and information on the potential of PCBs to cause cancer. The equation below illustrates how the RBAL for Adak was calculated.

$$RBAL = \frac{(TCR \times BW \times AT_C)}{(CSF_O \times IR \times FI \times EF \times ED \times UCF)}$$

Where: RBAL = PCB risk-based action level (6.5 or 31 µg/kg wet weight)
TCR = target cancer risk (1 x 10^{-5}, unitless)
BW = body weight (70 kg)
AT_C = carcinogenic averaging time (25,550 days = 70 years)
CSF_O = oral cancer slope factor for PCB (2 $[mg/kg\text{-}day]^{-1}$)
IR = ingestion rate (126,000 mg/day for fish, 26,000 mg/day for shellfish)
FI = fraction ingested from source area (1.0, unitless)
EF = exposure frequency (365 days/year)
ED = exposure duration (30 years)
UCF = unit conversion factor (10^{-9} kg/µg)

The basis of the input used in the above equation and specific information regarding the human health risk assessment is presented in Section 6 of the OU A ROD.

2013 Sample Collection and Analysis

During week of June 9, 2013, the sampling team collected five rock sole composite samples each from Kuluk Bay, Sweeper Cove, and Bay of Islands. Figure 2 shows the trawl lines where rock sole were collected in Kuluk Bay and Sweeper Cove. Figure 3 shows the trawl lines where rock sole were collected in Bay of Islands. Table A-1 (located at the end of this memorandum) lists the starting points and ending points of each of the trawl lines in the three embayments where rock sole were collected. If the vessel changed course while trawling, the point of the bearing change was also recorded.

Multiple trawls were completed in each embayment until an adequate number of individual fish were caught for the required number of composite samples. During trawling, the sampling crew used a 7.4-meter otter trawl net that was dragged along the sea floor, because rock sole are

bottom fish. Rock sole were collected during three trawls in Kuluk Bay and five trawls in Sweeper Cove, as shown in Figure 2. Rock sole were collected during six trawls in Bay of Islands, as shown in Figure 3.

Each composite sample consisted of five individual fish that were from more than one trawl line. Therefore, there is no direct correlation between a specific trawl line in Figures 2 and 3 to a specific rock sole composite sample. Because fish are mobile, composite samples represent the rock sole in the entire embayments from where the samples were collected and not specific areas within the embayments. Individual fish sampled for analyses ranged in age from approximately 4 to 7 years, based on lengths ranging from 30.0 to 40.4 cm, which is similar to the range of lengths of rock sole collected for analyses in previous years. SES chartered the fishing vessel *Larisa M* (Figure 4) with a captain and crew to perform the trawling.

Rock sole samples were collected and processed as fillets for analysis according to the SAP and the Quality Assurance Project Plan (QAPP) presented as Appendix C of the CMP, Revision 5. Although not specified in the SAP, all fish from each embayment were sorted by the visually observed length immediately before processing. This helped determine if the smallest fish was within 75% of the size of the largest fish included in the samples as required by the SAP. The fish were processed (measured, weighed, and filleted) in order of the sorted length. Therefore, the first of five composite samples from each embayment tended to consist of the largest fish while the fifth composite sample tended to consist of the smallest fish. Although compositing fish of similar lengths was not required, the results can be used to subjectively evaluate whether the level of PCB concentrations have any relation to the length/size of the fish. The female fish tended to be larger than the male fish. In all cases, the first composite samples from each embayment consisted of all female fish, and were presumably older than many of the smaller female fish. Rock sole measuring forms that list the sex, length, and weight for each composite sample are included on the attached compact disc (CD).

Blue mussel composite samples were collected during the week of June 9, 2013, from the shorelines in Sweeper Cove, Kuluk Bay, and Bay of Islands. One sample each was collected from sampling locations SW-25, SW-26/27 (composite sample from two locations), SW-28, SW-102, and SW-31 in Sweeper Cove as shown on Figure 2. One duplicate sample was also collected from location SW-28. One sample each was collected from sampling locations KB-01, KBALT-02, KBALT-03, KB-04, and KB-05 in Kuluk Bay. Each of these sampling locations was previously sampled in 1999, 2000, 2001 and 2002, except for location SW-102, which was sampled for the first time in 2003, location KBALT-02, which was sampled for the first time in 2009, and KBALT-03, which was sampled for the first time in 2011. Table A-2 identifies the samples (see column “Company Sample ID”) collected from 1999 through 2013 and the associated sampling locations from where they were collected.

Each composite mussel sample consisted of between 15 and 22 blue mussels. Individual blue mussels collected for analyses were approximately 2 to 5 years old, based on shell lengths ranging from approximately 3.50 to 6.66 cm, which is similar to the range of shell lengths of

blue mussels collected for analyses in previous years. Samples were collected by hand and processed for analysis according to the SAP. A Garmin Global Positioning System (GPS) unit was used to locate the sampling positions based on previously recorded GPS coordinates.

All rock sole and blue mussel samples were analyzed using EPA Method 1668A for 209 PCB congeners (defined in the next paragraph). TestAmerica in West Sacramento, California analyzed the samples.

PCBs are a group of 209 individual chemical compounds. Each of the 209 different PCB compounds is termed a congener and, thus, there are 209 PCB congeners. The total number and position of chlorine atoms in the PCB molecule defines a specific PCB congener. PCB congeners contain between 1 and 10 chlorine atoms. Chlorine atoms can be attached to any combination of the 10 available binding locations on the biphenyl molecule that is the base of all PCB congeners. The resulting 209 possible combinations of numbers of chlorines and their binding locations on a biphenyl molecule account for the 209 congeners. Each of the 209 PCB congeners has its own unique physical, chemical, and toxicological properties.

Data quality objectives specified in the QAPP were reviewed. TestAmerica provided final revised analytical results approximately 83 days after the laboratory received the samples. Because all planned samples were collected and analyzed, 100 percent completeness was achieved, exceeding the project objective of 95 percent completeness. Precision was calculated as a relative percent difference (RPD) based on a duplicate mussel sample from sampling location SW-28 in Sweeper Cove. RPDs of analytical results for all detected congeners ranged from 0 and 67 percent. RPDs for four congeners were outside the objective of ±50 RPD. Samples were not qualified due to field duplicate precision. However, this information can be used to evaluate the overall consistency of the site matrices and field procedures. Results of the data validation performed by Laboratory Data Consultants showed that 100 percent of the data was usable. The attached CD also contains a copy of the data validation report.

There were no reports of dredging in the small boat harbor since the previous marine monitoring event in 2011. In 2010 and 2011, significant dredging occurred in the small boat harbor and in the entrance to the small boat harbor. It is suspected the observation of increased PCBs in marine tissue in both Sweeper Cove and Kuluk Bay in 2011 was due to these dredging activities entraining contaminated sediment particles into the water column which were then ingested by the fish and shellfish. A similar increase in PCBs in marine tissue was observed after small boat harbor dredging activities occurred prior to the 2005 sampling event. An increase in PCB concentrations was first detected in the blue mussels soon after dredging in 2005. Then PCB concentrations increased in rock sole during the following sampling event in 2007 as PCB concentrations moved up the trophic levels.

Analytical Method Considerations

It should be noted that the number of congeners analyzed for a given sampling round has varied over the course of the program. However, the total PCB concentrations were comparable.

Approximately 60 congeners were included in the analyses of the samples collected in 1999 and 2000, approximately 90 congeners were included in the analyses of the samples collected in 2001 and 2002 (several congeners coeluted), and 209 congeners were included in the analyses of the samples collected in 2003, 2005, 2007, 2009 and 2011. A laboratory analysis may have reported one concentration for two or more congeners. For example, PCB-107 and PCB-124 were combined as PCB-107/124 in one test with one value during the 1999 analyses, because these two congeners coeluted, or were not distinguishable during testing with the laboratory instruments. When PCB congeners coelute, the congeners produce a similar peak on a chromatogram, which cannot be differentiated. Therefore, the number of single tests for a sample, which can include coeluting congeners, may differ from the number of congeners for which the sampled was tested. Coeluting congeners are considered as one analyte for reporting purposes. The number of analytes tested for in each sample collected from 1999 through 2013 is presented in Table A-3.

The number of congeners reported also varied, because the five laboratories that analyzed the marine tissue since the monitoring program began used different analytical methods. The University of Utah laboratory analyzed the 1999 and 2000 samples using EPA Method 8082/1668A Modified; Axys Analytical Services analyzed the 2001 and 2002 samples using EPA Method 8082/1668A Modified; Alta Analytical Laboratory analyzed the 2003 and 2005 samples using EPA Method 1668A; Vista Analytical Laboratories analyzed the 2007 samples using EPA Method 1668A; and TestAmerica Laboratories analyzed the 2009, 2011, and 2013 samples using EPA Method 1668A. The analytical methods used from 1999 through 2002 could not reliably quantify congeners that have very low concentrations that are typically measured in the parts per trillion range. The 2003, 2005, 2007, 2009, 2011, and 2013 samples were analyzed using Method 1668A, which is capable of analyzing all of the 209 PCB congeners. Total PCBs were calculated for each of the sampling events by summing the detected concentrations of the individual congeners. Form 1s for the 2013 data reported by the laboratory are included as part of the data validation report on the attached CD.

Because the earlier total PCB concentrations were based on fewer congeners, one would expect the total PCB concentrations to be comparatively lower than if 209 congeners were included in the analyses. The 2003 technical memorandum for marine monitoring reported that the approximately 60 congeners tested for in 1999 and 2000 accounted for a minimum of the 84 percent total PCB concentration in samples that included testing for 209 congeners. In other words, the 1999 and 2000 results may be biased low by a maximum of 16 percent.

The reporting limits for nondetected values were approximately

- 0.1 µg/kg in 1999 and 2000
- 0.0057 to 0.88 µg/kg in 2001
- 0.0039 to 0.19 µg/kg in 2002
- 0.0023 to 0.00749 µg/kg in 2003

- 0.000166 to 0.00929 µg/kg in 2005
- 0.000971 to 0.00723 µg/kg in 2007
- 0.0019 to 0.27 µg/kg in 2009
- 0.00099 to 0.4 µg/kg in 2011
- 0.0019 to 0.096 µg/kg in 2013

These detection limits are sufficient to detect total PCB concentrations in excess of the RBAL. The 1999 through 2002 reporting limits are approximately 40 times to 4 orders of magnitude lower than the mean total PCB concentrations detected in Sweeper Cove and Kuluk Bay for the corresponding years. The 2003 to 2013 reporting limits for subsequent years range from approximately one to five orders of magnitude below the mean total PCB concentrations detected in Sweeper Cove and Kuluk Bay reported for the corresponding years. In most cases, the higher detection limits were limited to a few congeners per sample. In some cases the higher detection limits resulted from required dilutions due to interference. For a majority of the samples, if one-half of the detection limits for each nondetected congener were included in the calculation of the total PCB concentrations, there would be a minimal effect. There would be either a similar increase in total PCB concentrations in each sample (from the addition of one-half of the detection limits), or no substantial difference in the resulting total PCB concentration.

Rock Sole Analytical Results

Summary statistics for total PCBs (wet weight) in rock sole tissue collected from 1996 through 2013 in Sweeper Cove and Kuluk Bay are presented in Table 1. Total PCB concentrations statistics in rock sole tissue collected in 2000, 2003, and 2013 from the Bay of Islands are also included. All analytical results used for this technical memorandum are included in electronic format on the attached CD. Table A-3 summarizes the total PCB concentrations in individual rock sole samples collected in Sweeper Cove, Kuluk Bay, and Bay of Islands from 1999 through 2013.

Because rock sole do not remain at a specific location during their life, the PCB concentrations measured in rock sole are reflective of a larger area such as Sweeper Cove, Kuluk Bay, or Bay of Islands and not of a point location from where the fish were caught. Therefore, temporal trends of PCB concentrations in rock sole in Sweeper Cove and Kuluk Bay were evaluated using regression analysis as described in the following section.

Mean total PCB concentrations of rock sole data from Sweeper Cove ranged from 19.5 µg/kg in 2005 to 186 µg/kg in 1996 (Table 1). For each sampling event, the mean concentration is above the RBAL of 6.5 µg/kg. PCB tissue concentrations in rock sole collected from Sweeper Cove for the period 1999 through 2013 were normally distributed and were plotted for best fit regression and trendline analysis. Figure 5a shows a trendline of PCB concentrations in rock sole tissues from Sweeper Cove that displays a decreasing trend over time, though this decrease was not determined to be statistically significant (not statistically significant when $p>0.05$, or $R^2<0.302$ when the number of samples is 10). Figure 5a also shows the mean total PCB

concentration for each sampling year in the marine monitoring program, the 95%UCL, and the range of the total PCB concentrations associated with each mean value. Note that the 95%UCL is not shown if there are three or fewer samples.

Mean total PCB concentrations of rock sole data from Kuluk Bay ranged from 1.73 µg/kg in 2013 to 32.4 µg/kg in 1996 (Table 1). The mean concentration for each year has not consistently increased or decreased over time, but has fluctuated. The mean total PCB concentration measured in 2013 is below the RBAL of 6.5 µg/kg and has decreased substantially from 12.9 µg/kg in 2011 to 1.73 µg/kg. The mean total PCB concentrations of the samples collected since 1996 were above the RBAL in 7 of 11 sampling events. Concentrations were below the RBAL in

Table 1

Summary Statistics for Total PCBs in Rock Sole

Embayment	Year Sampled	Number of Composite Samples	Minimum Concentration (µg/kg)	Maximum Concentration (µg/kg)	Mean Concentration (µg/kg)	Standard Error	95%UCL (t-distribution)
Sweeper Cove	1996	5	Not Detected	**341**	**186**	-	-
	1999	1[b]	**52.9**	**52.9**	**52.9**	NA	NA[a]
	2000	2	**31.1**	**81.4**	**56.2**	25	NA[a]
	2001	2	**44.6**	**79.4**	**62.0**	17	NA[a]
	2002	2	**55.5**	**120**	**87.5**	32	NA[a]
	2003	6	**73.4**	**132**	**96.0**	9.4	120
	2005	6	**13.1**	**25.9**	**19.5**	2.1	24
	2007	5	**11.5**	**127**	**59.1**	20	100
	2009	6	**33.5**	**60.9**	**44.5**	4.0	52
	2011	6	**29.4**	**138**	**69.9**	15	100
	2013	5	**27.1**	**110**	**51.6**	16	86
Kuluk Bay	1996	5	**14.0**	**60.0**	**32.4**	-	-
	1999	1[b]	**10.6**	**10.6**	**10.6**	NA	NA[a]
	2000	3	2.52	**9.21**	5.01	2.1	NA[a]
	2001	2	0.93	**14.6**	**7.75**	6.8	NA[a]
	2002	2	1.48	**8.41**	4.94	3.5	NA[a]
	2003	5	**8.88**	**21.0**	**13.5**	2.3	18
	2005	5	4.88	**11.0**	**7.69**	1.3	10
	2007	5	4.59	**17.5**	**12.1**	2.9	18
	2009	5	2.53	**12.8**	6.40	1.8	10
	2011	5	2.51	**35.3**	**12.9**	6.0	26
	2013	5	1.33	2.61	1.73	0.24	2.2
Bay of Islands	1999	-	-	-	-	-	-
	2000	2	1.05	1.14	1.10	0.045	NA[a]
	2001	-	-	-	-	-	-
	2002	-	-	-	-	-	-
	2003	5	0.279	0.352	0.320	0.013	0.35
	2005	-	-	-	-	-	-
	2007	-	-	-	-	-	-
	2009	-	-	-	-	-	-
	2011	-	-	-	-	-	-
	2013	5	0.169	0.320	0.213	0.030	0.28

[a]95% upper confidence limit (95%UCL) was not considered valid when the number of samples was three or less.
[b]Sample consisted of a single rock sole and is, therefore, not a composite sample.

Notes:
All concentrations are based on wet weight.
Adak risk-based action level for rock sole is 6.5 microgram per kilogram (µg/kg) wet weight.
Bold indicates value exceeded risk-based action level.
"Not Detected" means that none of the Aroclors tested for in 1996 were detected in the sample with the minimum concentration.
UCL = Upper confidence level

2000, 2002, 2009, and 2013. PCB tissue concentrations in rock sole collected from Kuluk Bay from 1999 through 2013 were normally distributed and were plotted for best fit regression and trendline analysis. Figure 5b shows a trendline that displays a very slightly decreasing trend in PCB concentrations in rock sole tissues over time. This trend was determined to be not statistically significant ($p>0.05$). Figure 5b also shows the mean total PCB concentration for each sampling year in the marine monitoring program, the 95%UCL, and the range of the total PCB concentrations associated with each mean value. For the first time since marine monitoring on Adak began, the maximum total PCB concentration detected in rock sole samples in Kuluk Bay in 2013 was less than the RBAL.

Rock sole was sampled in 2000, 2003, and 2013 at the reference area, Bay of Islands. Mean total PCB concentrations of rock sole data from Bay of Islands were 1.10 µg/kg in 2000, 0.32 µg/kg in 2003, and 0.213 µg/kg in 2013 (Table 1). There is a decrease in concentrations from 2000 to 2003 with relatively similar concentrations in 2003 and 2013. The mean and maximum total PCB concentrations for the three sampling events are below the RBAL of 6.5 µg/kg. With only 3 years of data, a trend could not be determined, and a change in global PCB concentrations is not evident based on these results.

Statistical Comparison of 2013 PCB Concentrations in Rock Sole Against the RBAL

Rock sole tissue sample concentrations collected in 2013 from Sweeper Cove did not reflect a normal distribution. While transformation to a lognormal distribution resulted in a normalized distribution, the mean PCB concentration (51.6 µg/kg) exceeded the RBAL of 6.5 µg/kg so that $p>0.50$ for any distribution.

Rock sole tissue sample concentrations collected in 2013 from Kuluk Bay were normally distributed and statistically compared to the marine fish RBAL. Comparison was made using a One Sample t-Test. The mean concentration of PCBs (1.73 µg/kg) in rock sole from Kuluk Bay was significantly ($p<0.05$) below the RBAL.

Blue Mussel Analytical Results

Total PCBs (wet weight) in blue mussel tissue collected from 1996 through 2013 in Sweeper Cove, Kuluk Bay, and Bay of Islands are summarized in Table 2. All analytical results are presented in the attached CD. Table A-3 summarizes the total PCB concentrations in composite blue mussel samples from locations in Sweeper Cove, Kuluk Bay, and Bay of Islands from 1999 through 2013.

Mean total PCB concentrations in blue mussel tissue from Sweeper Cove ranged from 24.4 µg/kg in 2001 to 133 µg/kg in 2005 (Table 2). The mean total PCB concentrations detected in

Table 2

Summary Statistics for Total PCBs in Blue Mussels

Embayment	Year Sampled	Number of Composite Samples	Minimum Concentration (µg/kg)	Maximum Concentration (µg/kg)	Mean Concentration (µg/kg)	Standard Error	95%UCL (t-distribution)
Sweeper Cove	1996	6	26.9	**39.6**	**34.3**	-	-
	1999	8	9.66	**97**	**43.5**	12	65
	2000	7	5.22	**345**	**60.9**	47	153
	2001	7	7.19	**57.7**	24.4	6.3	37
	2002	7	5.50	**98.0**	25.7	12	50
	2003	5	15.2	**45.5**	**33.3**	6.0	46
	2005	5	22.5	**483**	**133**	88	320
	2007	5	15.7	**138**	**47.9**	23	96
	2009	5	9.59	**144**	**42.5**	26	97
	2011	5	10.1	**178**	**54.1**	31	120
	2013	5	14.5	**81.3**	**32.3**	12	58
Kuluk Bay	1996	11	Not detected	**36.0**	16.5	-	-
	1999	9	0.553	14.1	4.07	1.5	6.8
	2000	9	0.407	12.1	4.31	1.5	7.1
	2001	9	0.990	**50.7**	16.5	6.2	28
	2002	9	1.27	30.4	8.10	3.2	14
	2003	5	3.72	21.0	12.4	3.2	19
	2005	5	10.9	**60.3**	**32.0**	11	55
	2007	5	6.7	28.6	15.0	4.8	25
	2009	5	5.62	**37.8**	18.1	5.9	31
	2011	5	7.87	**34.5**	18.3	5.2	29
	2013	5	3.59	19.7	9.97	3.5	17
Bay of Islands	1999	4	0.072	0.434	0.269	0.076	0.45
	2000	4	0.091	1.98	0.594	0.46	1.68
	2001	3	0.01	0.040	0.0240	0.0087	0.05
	2002	4	0.0187	0.0584	0.0350	0.0091	0.06
	2003	5	0.108	0.268	0.183	0.028	0.24
	2005	-	-	-	-	-	-
	2007	-	-	-	-	-	-
	2009	-	-	-	-	-	-
	2011	-	-	-	-	-	-
	2013	5	0.134	0.230	0.175	0.017	0.21

Notes:
All concentrations are based on wet weight.
Adak risk-based action level for blue mussels is 31 micrograms per kilogram (µg/kg) wet weight.
Bold indicates value exceeded risk-based action level.
"Not Detected" means that none of the Aroclors tested for in 1996 were detected in the sample with the minimum concentration.
UCL = Upper confidence level

1996, 1999, 2000, 2003, 2005, 2007, 2009, 2011, and 2013 were above the RBAL of 31 µg/kg. The mean total PCB concentrations in 2001 and 2002 were below the RBAL. PCB tissue concentrations in blue mussels collected from Sweeper Cove for the period 1999 through 2013 were plotted for best fit regression and trendline analysis. Figure 6a displays a slightly increasing trend in PCB concentrations in blue mussel tissues, though this increase was not determined to be statistically significant ($p>0.05$). Figure 6a also shows the mean total PCB concentration for each sampling year in the marine monitoring program, the 95%UCL, and the range of the total PCB concentrations associated with each mean value.

The 2013 mean total PCB concentration of 32.3 µg/kg was slightly above the RBAL. Four of the five mussel samples collected in Sweeper Cove in 2013 were below the RBAL. The sample collected from location SW-28 (located adjacent to small boat harbor) in 2013 had a total PCB concentration of 81.3 µg/kg. This concentration is three to four times higher than concentrations from samples collected in 2013 from other locations in Sweeper Cove. The 2013 concentration from the sample SW-28 decreased to less than half of the 2011 concentration at that location. One possible explanation for the higher concentrations at location SW-28 is related to dredging. In 2010 and 2011, significant dredging was performed within the small boat harbor. The higher PCB concentrations observed in fish tissue during the 2011 monitoring event is likely due to resident rock sole and shoreline mussels ingesting PCB contaminated sediment particles which were entrained into the water column during these dredging activities. No dredging activities were reported since 2011. However, disturbance of sediment by boat traffic and runoff from the dredge spoils may be affecting current PCB levels at this location.

Mean total PCB concentrations in blue mussel tissue from Kuluk Bay ranged from 4.07 µg/kg in 1999 to 32.0 µg/kg in 2005 (Table 2). Mean total PCB concentrations for each year, with the exception of 2005, are below the RBAL of 31 µg/kg. PCB tissue concentrations in blue mussel collected from Kuluk Bay for the period 1999 through 2013 were plotted for best fit regression and trendline analysis. The trendline in Figure 6b displays an increase in PCB concentrations in blue mussel tissues over time, although the increase in not statistically significant ($p>0.05$). Figure 6b also shows the mean total PCB concentration for each sampling year in the marine monitoring program, the 95%UCL, and the range of the total PCB concentrations associated with each mean value. The 2013 mean total PCB concentration of 9.97 µg/kg was below the RBAL. All five of the mussel samples collected in Kuluk Bay in 2013 were below the RBAL.

Mean total PCB concentrations in blue mussel tissue from the Bay of Islands ranged from 0.024 µg/kg in 2001 to 0.594 µg/kg in 2000 (Table 2). The mean total PCB concentration of 0.175 µg/kg in blue mussel tissue collected from the Bay of Islands in 2013 is within the range of historical PCB concentrations in samples from that area. Mean, 95%UCL, and maximum total PCB concentrations for each year are below the RBAL of 31 µg/kg. A change in global PCB concentrations is not evident based on these results.

Statistical Comparison of 2013 PCB Concentrations in Blue Mussel to the RBAL

Blue mussel tissue sample concentrations from Sweeper Cove did not reflect a normal distribution. While transformation to a lognormal distribution resulted in a normalized distribution, the mean PCB concentration (32.3 µg/kg) exceeded the shellfish RBAL of 31 µg/kg so that $p>0.50$ for any distribution.

Blue mussel tissue sample concentrations from Kuluk Bay were normally distributed and statistically compared to the marine shellfish RBAL. Comparison was made using a One Sample t-Test. The mean concentration of PCBs (9.97 µg/kg) in blue mussels from Kuluk Bay was significantly ($p<0.05$) below the RBAL in 2013.

Evaluation of PCB Concentrations in Blue Mussels at Selected Locations Over Time

Temporal trends of PCB concentrations in blue mussels from point locations (i.e., selected sampling locations) can be evaluated, because they live nearly their entire life at one location and are exposed to PCBs only at that location.

Mean total PCB concentrations in mussel samples collected in 1999 through 2013 from sampling locations SW-25, SW-26, SW-27, SW-28, SW-31 and SW-102 in Sweeper Cove and from sampling locations KB-01, KB-02 (and KBALT-02), KB-03 (and KBALT-03), KB-04, and KB-05 in Kuluk Bay were plotted and are presented on Figures 7 and 8, respectively. The graphs for each location provide a trendline with its linear equation and R^2 value. Not all locations were sampled during each of the nine sampling events.

The trendline for each location in Sweeper Cove (Figure 7) shows that total PCB concentrations in blue mussels have been generally decreasing or remain the same for four of the five sampling locations when considering results since 1999. If only the sample results from 2005 through 2013 were considered, the trendline would support decreasing concentrations at all sampling locations in Sweeper Cove. Mean total PCB concentrations have decreased at all locations since the previous sampling event in 2011, with the exception of location SW-25 which is the furthest sampling location from the mouth of Sweeper Creek and has never has an exceedance of the applicable RBAL. Location SW-28 (near the small boat harbor) consistently had the highest concentrations during each monitoring event when a sample was collected from that location. However, the total PCB concentration at SW-28 in 2013 was at its lowest level since 2001.

There are three known significant events that potentially impacted nearby blue mussel populations in Sweeper Cove. In April 1999 the Navy performed a remediation of PCB-containing sediments in South Sweeper Creek, possibly resulting in the decreasing trend at SW-102 (Figure 7). In the spring of 2005, the city of Adak expanded the small boat harbor to accommodate commercial fishing vessels. During this process, the existing sediments in that area were disturbed, allowing PCBs in older sediments to be released into the water column. Similarly, the significant dredging in the small boat harbor area in 2010 and 2011 caused existing sediments in that area to be disturbed.

Total PCB concentrations in blue mussels in Kuluk Bay appear to be generally increasing at each location (Figure 8) when considering results since 1999. If only the sample results from 2005 through 2013 were considered, the trendline would support decreasing concentrations at all sampling locations in Sweeper Cove. The locations closest to the downtown area (location KB-01) and the Metals Landfill (location KB-02/KBALT-02) are the only two sampling locations in Kuluk Bay that had exceedances of the RBAL since monitoring began. Because Metals Landfill has been capped to minimize contaminant migrations to Kuluk Bay, and other known PCB sources in the downtown area have been remediated, the 2005 results may be solely due to the

inherent variability of the data. There are no known significant events that would have affected concentrations of PCBs in blue mussels in Kuluk Bay.

Conclusions and Recommendations

As expected, the highest PCB concentrations in rock sole were consistently found in Sweeper Cove, which is nearest the known former PCB sources on Adak Island. The 2013 results showed a decrease in the mean total PCB concentration compared to the 2011 analytical results, and the trendline of PCBs in Sweeper Cove rock sole in Figure 5a suggests an overall decreasing (though not statistically significant) trend. The mean total PCB concentration for rock sole in Sweeper Cove in 2013 remained above the RBAL for marine fish. Therefore, maintaining the consumption advisory for rock sole caught in Sweeper Cove is recommended.

Rock sole samples in Kuluk Bay contained a mean total PCB concentration that was approximately 30 times less than the concentration in rock sole from Sweeper Cove. The mean concentration for 2013 decreased since 2011 and was below the RBAL for the first time since 2002. The trendline of PCBs in Kuluk Bay rock sole in Figure 5b shows a slight decreasing concentration (not statistically significant), which nearly parallels the RBAL. Although the 2013 sample results were less than the RBAL, and the trend suggests a slight decrease in concentrations, maintaining the consumption advisory for rock sole caught in Kuluk Bay is recommended because the trendline is very close to the RBAL. One additional monitoring event should be conducted to verify the decreasing trend. If the results of the next monitoring event continue to support a decreasing trend, then the removal of the consumption advisory for rock sole caught in Kuluk Bay may be warranted.

The highest PCB concentrations in blue mussels are consistently found in Sweeper Cove as expected. Although the mean total PCB concentration for 2013 remained slightly above the RBAL for shellfish, four of the five samples contained total PCB concentrations were below the RBAL. Figure 6a shows an increasing trend, which is not statistically significant. If the atypically high total PCB concentration results from sampling location SW-28 were excluded, the resulting mean concentration of 20.1 µg/kg would be below the RBAL. Because the mean total PCB concentration remains in excess of the RBAL, continuing the consumption advisory for blue mussels collected in Sweeper Cove is recommended.

Blue mussel samples in Kuluk Bay contained a mean total PCB concentration that was significantly less than the mean total PCB concentration in blue mussels from Sweeper Cove. Total PCB concentrations in all five blue mussel samples collected from Kuluk Bay in 2013 were less than the RBAL. The mean concentration has remained significantly below the RBAL since 2007. Figure 6b shows an increasing trend of PCB concentrations in Kuluk Bay blue mussels considering all data since 1999; however, this trend is not statistically significant. In 2003, the fish consumption advisory was removed for blue mussels collected from Kuluk Bay. Because the mean total PCB concentration is below the RBAL and has been so for 7 of the past

10 sampling events, reinstatement of the advisory for blue mussel consumption in Kuluk Bay is not recommended.

Mean total PCB concentrations in rock sole and blue mussels in samples from the reference area Bay of Islands in 2013 were similar to concentrations measured in previous years, and a change in global PCB concentrations is not evident based on these results. Mean total PCB concentrations in the Bay of Islands were one to two orders of magnitude below the mean concentrations present in Sweeper Cove and Kuluk Bay.

The Navy plans to sample rock sole and blue mussel samples from the same locations in Sweeper Cove and Kuluk Bay in 2015, and to evaluate the trends of the PCB concentrations in these embayments and at the individual locations. The additional data will help make decisions about fish advisories and future monitoring after the 2015 sampling event.

We trust this information is sufficient for your current needs. Please contact Jim Ruef at (206) 930-9623 with any questions or comments you may have.

James Ruef
SES Task Order Manager

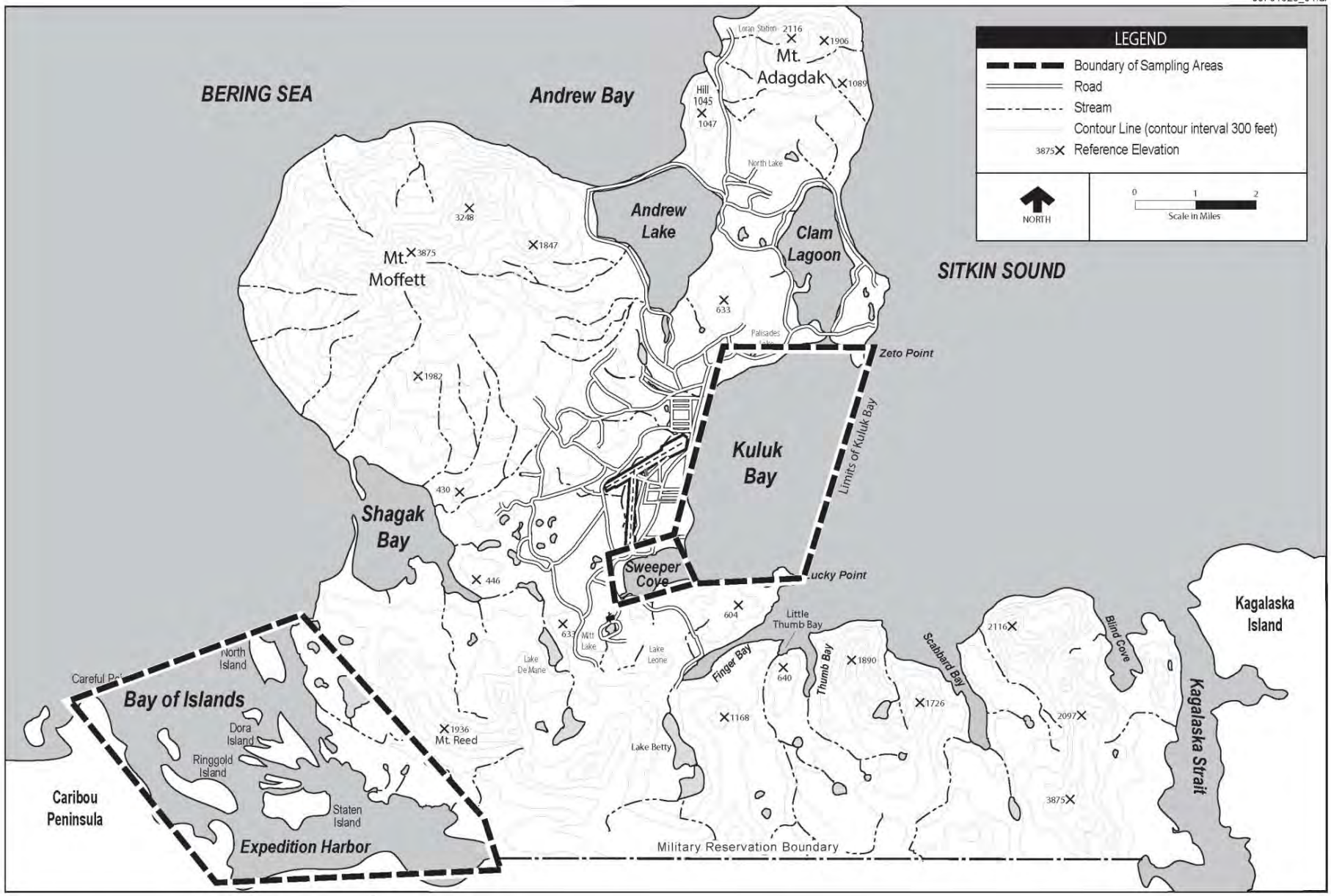
Tom Abbott
URS Project Manager

Attachments:

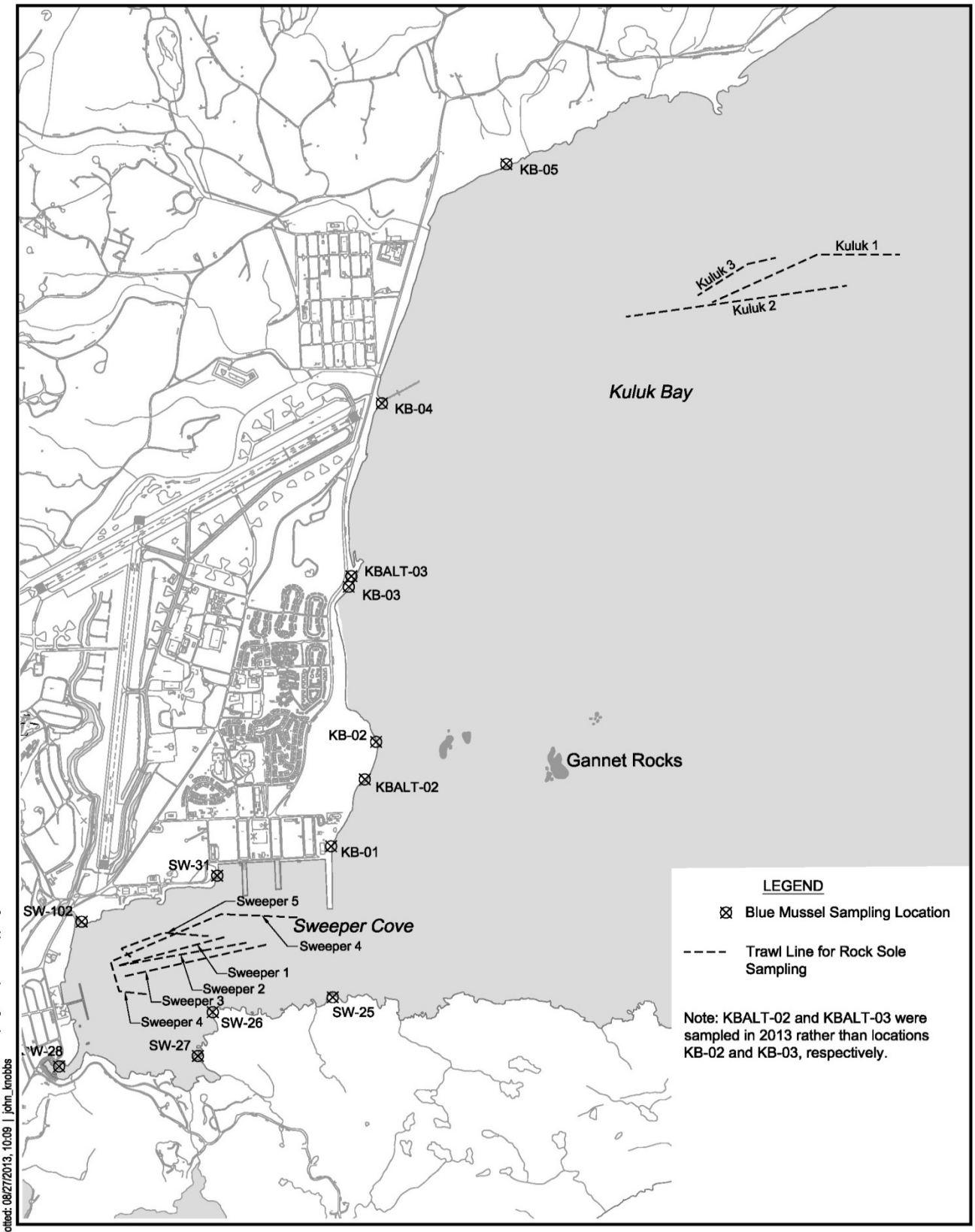
Attachment 1- Field Data and Other Supporting Documentation (on CD only):

- 01 Field Logbook
- 02 Blue Mussel Collection Forms
- 03 Rock Sole Collection Forms
- 04 Chain-of-Custody Forms for Sample Shipping
- 05 Photographic Log
- 06 Data Validation Report
- 07 Adak PCB Tissue Data Summary 1999-2013
- 08 Statistical Calculation Backup (various files)
- to be included: 09 Responses to ADEC and EPA Comments on the Draft Technical Memorandum

33761623_01.ai

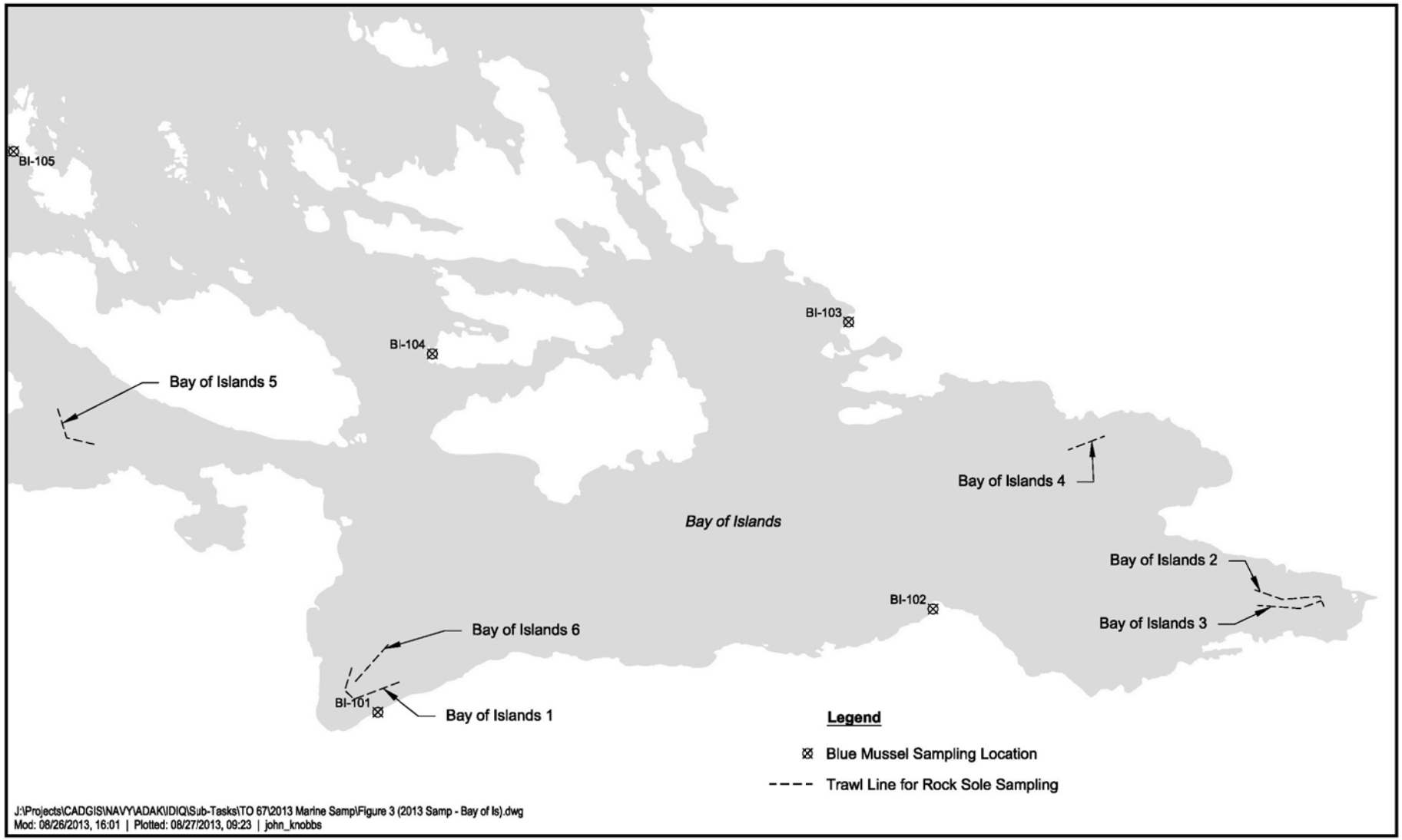


U.S.NAVY	Task Order 67 Adak Island, AK TECHNICAL MEMORANDUM	**Figure 1** **Marine Tissue Sampling Areas**



J:\Projects\CADGIS\NAVY\ADAK\IDIQ\Sub-Tasks\TO 67\2013 Marine Samp\Figure 2 (2013 Samp).dwg
Mod: 08/26/2013, 15:56 | Plotted: 08/27/2013, 10:09 | john_knobbs

U.S. NAVY	0 1,400 2,800 SCALE IN FEET	**Figure 2** **2013 Marine Sampling Locations in Sweeper Cove and Kuluk Bay**	Task Order 67 Adak Island, AK TECHNICAL MEMORANDUM



U.S. NAVY

0 1,500 3,000
SCALE IN FEET

Figure 3
2013 Marine Sampling Locations in Bay of Islands

Task Order 67
Adak Island, AK
TECHNICAL MEMORANDUM

Figure 4. Fishing Vessel *Larisa M* Anchored in the Bay of Islands

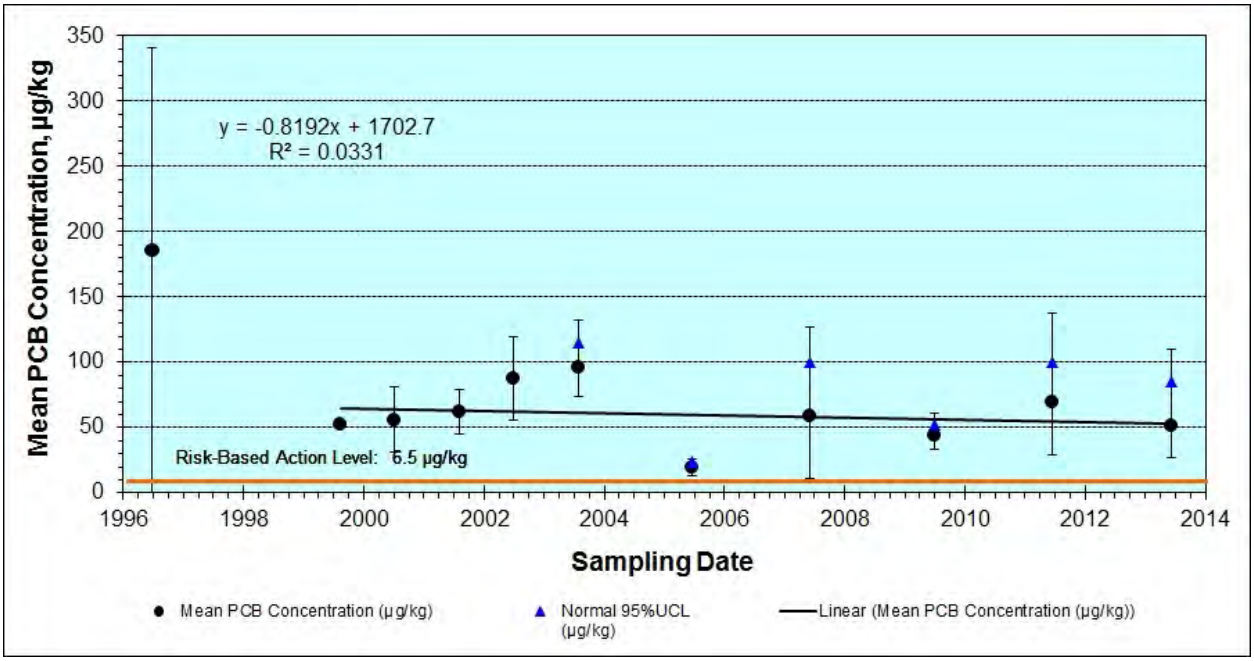


Figure 5a. Total PCB Concentrations in Sweeper Cove Rock Sole From 1996 Through 2013 With Trendline (Excluding 1996 Value)

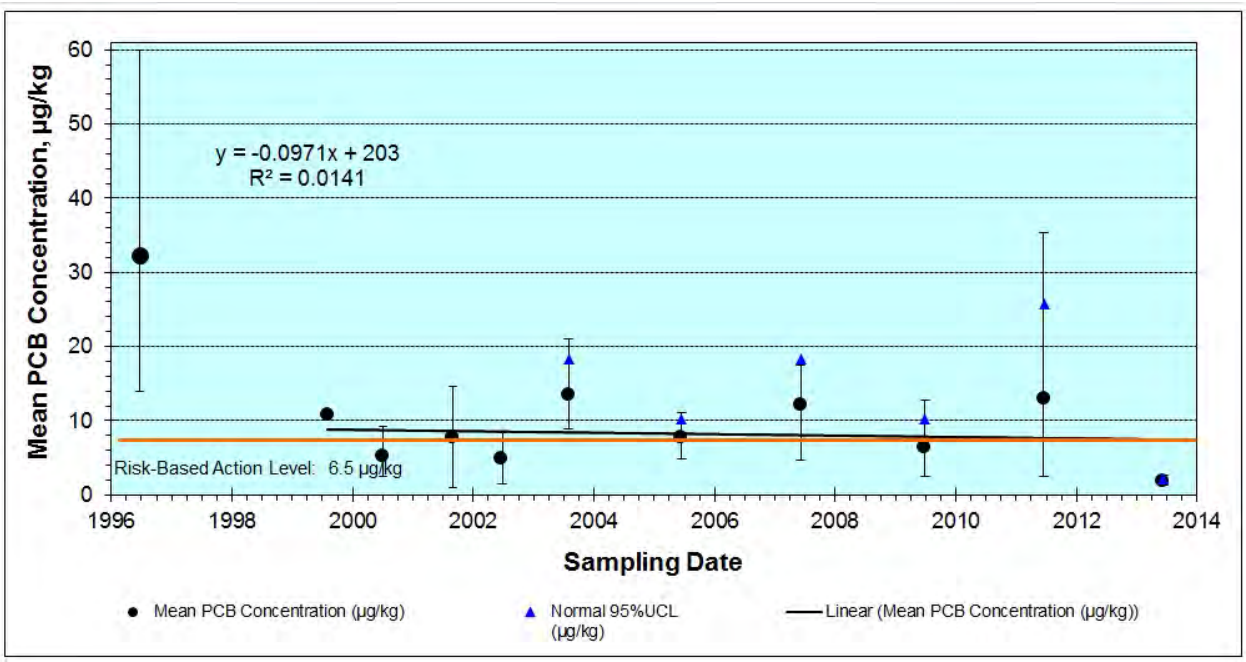


Figure 5b. Total PCB Concentrations in Kuluk Bay Rock Sole from 1996 Through 2013 With Trendline (Excluding 1996 Value)

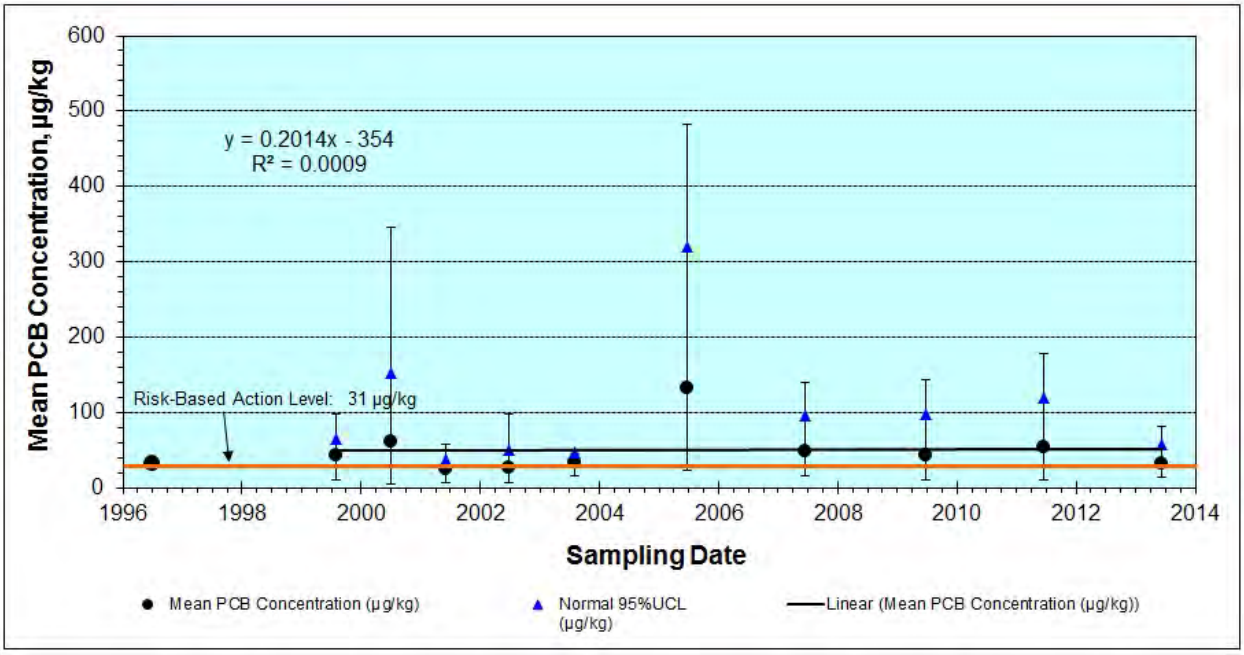


Figure 6a. Total PCB Concentrations in Blue Mussel in Sweeper Cove From 1996 Through 2013 With Trendline (Excluding 1996 Value)

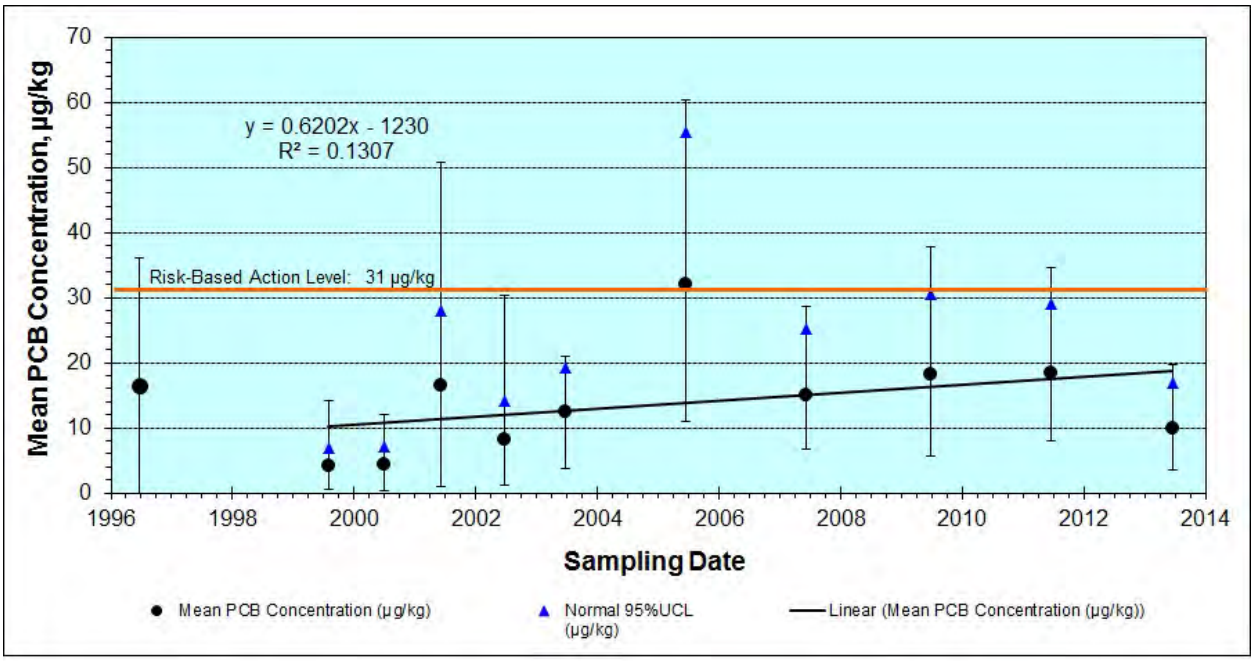
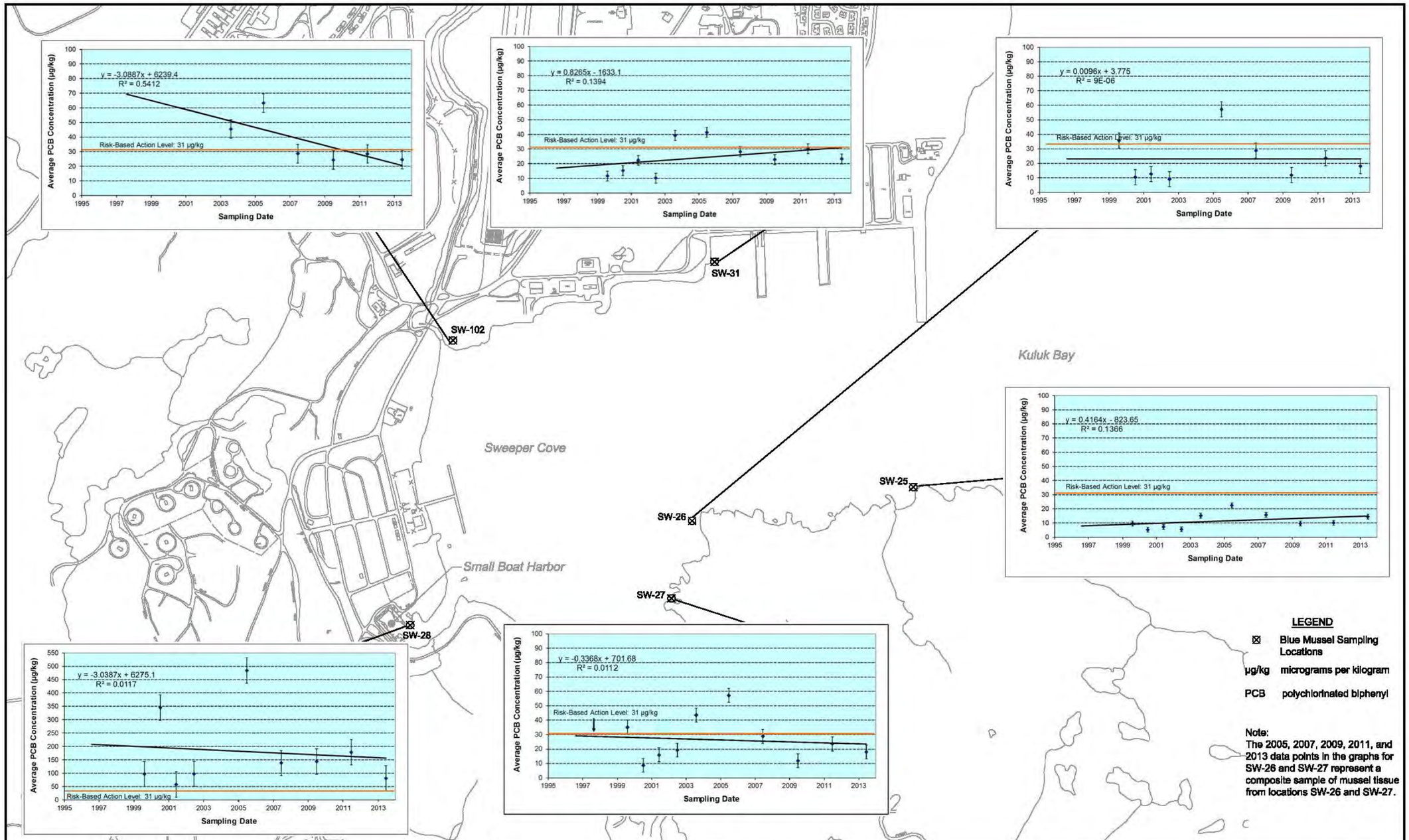
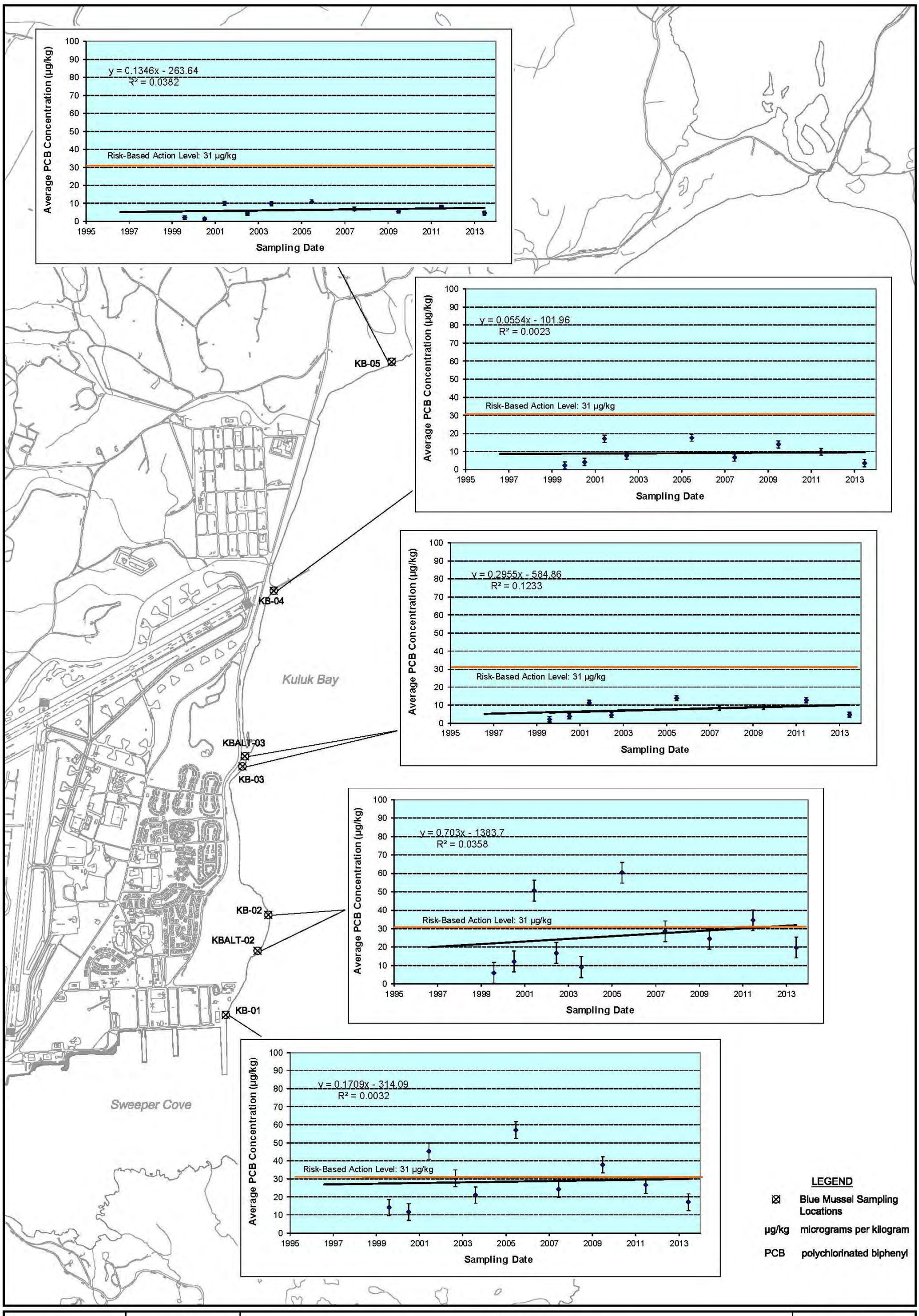


Figure 6b. Total PCB Concentrations in Kuluk Bay Blue Mussel From 1996 Through 2013 With Trendline (Excluding 1996 Value)



U.S. NAVY	Task Order 32 Adak Island, AK TECHNICAL MEMORANDUM	0 500 1,000 SCALE IN FEET	**Figure 7** **Total PCB Concentrations in Blue Mussels From Sampling Locations in Sweeper Cove, 1999 Through 2013**

J:\GIS\Projects\NAVY\ADAK\IDIQ\Sub-Tasks\TO 32\2013 Tech Memo\FIG 7 PCB SWEEPER (99-11).dwg
Mod: 10/03/2013, 13:30 | Plotted: 10/03/2013, 13:30 | John_knobbs



U.S. NAVY

0 1,000 2,000
SCALE IN FEET

Figure 8
Total PCB Concentrations in Blue Mussels from Sampling Locations in Kuluk Bay, 1999 Through 2013

Task Order 32
Adak Island, AK
TECHNICAL MEMORANDUM

T:\ADAK\IDIQ\Sub-Tasks\TO 32\2013 Tech Memo\FIG 8 PCB KULUK (99-11).dwg
Mod: 08/28/2013, 10:20 | Plotted: 08/30/2013, 13:55 | Chad_Stickel

Table A-1
Coordinates of 2013 Trawl Lines

Embayment	Trawl Number	Start, End, or Bearing Change	Latitude[a]	Longitude[a]	Northing[b]	Easting[b]
Sweeper Cove	1	Start	51 51.4782 N	176 38.3753 W	313862.66	3136267.91
	1	End	51 51.3766 N	176 38.9605 W	313264.31	3134057.84
	2	Start	51 51.4592 N	176 38.2499 W	313742.87	3136739.28
	2	End	51 51.3744 N	176 38.9670 W	313251.15	3134033.24
	3	Start	51 51.4528 N	176 38.1384 W	313700.22	3137158.95
	3	End	51 51.3373 N	176 38.9326 W	313024.27	3134160.79
	4	Start	51 51.5504 N	176 37.9646 W	314288.21	3137818.91
	4	Bearing Change	51 51.5600 N	176 38.3925 W	314360.88	3136207.54
	4	Bearing Change	51 51.3881 N	176 39.0154 W	313336.14	3133851.65
	4	Bearing Change	51 51.2832 N	176 38.9654 N	312696.26	3134034.26
	4	End	51 51.2738 N	176 38.8113 W	312633.84	3134614.28
	5	Start	51 51.4815 N	176 38.4646 W	313885.73	3135931.68
	5	Bearing Change	51 51.4922 N	176 38.7171 W	313959.33	3134981.09
	5	Bearing Change	51 51.4348 N	176 38.9556 W	313618.22	3134079.5
	5	End	51 51.4051 N	176 38.9023 W	313435.72	3134278.65
Kuluk Bay	1	Start	51 53.9136 N	176 34.5903 W	328558.45	3150645.05
	1	Bearing Change	51 53.9115 N	176 35.0566 W	328559.84	3148889.95
	1	End	51 53.7398 N	176 35.6476 W	327533.49	3146657.01
	2	Start	51 53.8023 N	176 34.8886 W	327890.37	3149516.87
	2	End	51 53.6859 N	176 36.1353 W	327220.86	3144818.62
	3	Start	51 53.8990 N	176 35.2927 W	328491.04	3148000.73
	3	Bearing Change	51 53.8765 N	176 35.4484 W	328358.96	3147413.61
	3	End	51 53.7642 N	176 35.7295 W	327684.49	3146349.97
Bay of Islands	1	Start	51 46.9959 N	176 48.3607 W	286972.24	3098347.12
	1	Bearing Change	51 46.9142 N	176 48.4001 W	286476.87	3098192.89
	1	Bearing Change	51 46.8824 N	176 48.3452 W	286281.09	3098397.88
	1	End	51 46.9461 N	176 48.0829 W	286657.55	3099391.96
	2	Start	51 47.3146 N	176 43.0701 W	288699.55	3118329.54
	2	Bearing Change	51 47.2805 N	176 42.9073 W	288485.97	3118941.7
	2	Bearing Change	51 47.2935 N	176 42.6890 W	288556.89	3119766.13
	2	Bearing Change	51 47.2572 N	176 42.6652 W	288335.16	3119853.72
	2	End	51 47.2414 N	176 42.6922 W	288240.05	3119750.9
	3	Start	51 47.2584 N	176 43.0529 W	288357	3118391.03
Bay of Islands (continued)	3	Bearing Change	51 47.2488 N	176 42.8037 W	288289.24	3119330.67
	3	End	51 47.2775 N	176 42.6808 W	288459.25	3119796.09

Table A-1 (Continued)
Coordinates of 2013 Trawl Lines

Embayment	Trawl Number	Start, End, or Bearing Change	Latitude[a]	Longitude[a]	Northing[b]	Easting[b]
	4	Start	51 47.8168 N	176 44.1725 W	291796.85	3114201.62
	4	End	51 47.8678 N	176 43.9626 W	292099.03	3114996.55
	5	Start	51 47.9258 N	176 50.1008 W	292704.32	3091846.97
	5	Bearing Change	51 47.8207 N	176 50.0467 W	292062.57	3092043.6
	5	End	51 47.7986 N	176 49.8869 W	291921.14	3092644.84
	6	Start	51 47.0818 N	176 48.1493 W	287485.9	3099150.64
	6	End	51 46.9470 N	176 48.3386 N	286673.81	3098427.19

[a]Coordinates from vessel, degrees decimal-minutes, WGS84
[b]Alaska State Plane, Zone 10, North American Datum 1983

Table A-2
Mussel Samples Collected At or Near Sampling Sites in Sweeper Cove and Kuluk Bay for Samples Collected in 1999 Through 2013

Sampling Location	Embayment	Company Sample ID (CSI) or Sample Number									
		1999	2000	2001	2002	2003	2005	2007	2009	2011	2013
BI-101	Bay of Islands	see note[a]	see note[a]	see note[a]	see note[a]	63044	-	-	-	-	BI101-061313
BI-102	Bay of Islands	see note[a]	see note[a]	see note[a]	see note[a]	63041	-	-	-	-	BI102-061313
BI-103	Bay of Islands	see note[a]	see note[a]	see note[a]	see note[a]	63043	-	-	-	-	BI103-061313
BI-104	Bay of Islands	see note[a]	see note[a]	see note[a]	see note[a]	63045	-	-	-	-	BI104-061313
BI-105	Bay of Islands	see note[a]	see note[a]	see note[a]	see note[a]	63042	-	-	-	-	BI105-061313
KB-01	Kuluk Bay	ADAK67	AM01	A01M01	A02M01	63055	230730	29086-007	KB-001_062209	KB01_061811	KB01-061113
KB-02	Kuluk Bay	ADAK41	AM02	A01M02	A02M02	63056	230731	-	-	-	-
KBALT-02	Kuluk Bay	-	-	-	-	-	-	29086-008	KBALT- 02_062209	KBALT02_061811	KBALT02-061513
KB-03	Kuluk Bay	ADAK42	AM03	A01M03	A02M03	-	230732	29086-009	KB-003_062209	-	-
KBALT-03	Kuluk Bay	-	-	-	-	-	-	-	-	KBALT03_061811	KBALT03-061513
KB-04	Kuluk Bay	ADAK43	AM04	A01M04	A02M04	-	230733	29086-010	KB-004_062209	KB04_061511	KB04-061513
KB-05	Kuluk Bay	ADAK44	AM05	A01M05	A02M05	63054	230734	29086-011	KB-005_062209	KB05_061811	KB05-061513
KB-06	Kuluk Bay	ADAK45	AM06	A01M06	A02M06	-	-	-	-	-	-
KB-07	Kuluk Bay	ADAK46	AM07	A01M07	A02M07	-	-	-	-	-	-
KB-23	Kuluk Bay	ADAK66	AM23	A01M23	A02M23	-	-	-	-	-	-
KB-24	Kuluk Bay	ADAK70	AM24	A01M24	A02M24	-	-	-	-	-	-
SW-25	Sweeper Cove	ADAK73	AM25	A01M25	A02M25	63049	230724	29086-001	SW-25_062709	SW25_061811	SW25-061513
SW-26	Sweeper Cove	ADAK74	AM26	A01M26	A02M26	-	230725[b]	29086-002[c]	SW-26_27 _062709[b]	SW26/27_061811[b]	SW26/27_061513[b]
SW-27	Sweeper Cove	ADAK77	AM27	A01M27	A02M27	63050	230725[b]	29086-002[c]	SW-26_27 _062709[b]	SW26/27_061811[b]	SW26/27_061513[b]
SW-28	Sweeper Cove	ADAK76	AM28	A01M28	A02M28	-	230726/ 230727	29086-003	SW-28_062309/ SW-28D _062309	SW28_061511	SW28-061113/ SW28DUP-061113
SW-29	Sweeper Cove	ADAK75	AM29	A01M29	A02M29	-	-	-	-	-	-
SW-30	Sweeper Cove	ADAK78	AM30	A01M30	A02M30	-	-	-	-	-	-
SW-31	Sweeper Cove	ADAK81	AM31	A01M31	A02M31	63046	230728	29086-004	SW-31_062309	SW31_06151	SW31-061113

Table A-2 (Continued)
Mussel Samples Collected At or Near Sampling Sites in Sweeper Cove and Kuluk Bay for Samples Collected in 1999 Through 2013

Sampling Location	Embayment	Company Sample ID (CSI) or Sample Number									
		1999	2000	2001	2002	2003	2005	2007	2009	2011	2013
SW-102	Sweeper Cove	-	-	-	-	63047/ 63051	230729	29086-006	SW-102_062309	SW102_061511 DUP1_061511	SW102-061113
SW-103	Sweeper Cove	-	-	-	-	63048	-	-	-	-	-
KB-101	Kuluk Bay	-	-	-	-	63052	-	-	-	-	-
KB-102	Kuluk Bay	-	-	-	-	63053	-	-	-	-	-

[a]The locations of the samples collected from Bay of Islands from 1999 through 2002 is unclear. Three samples were collected in 2001, and four samples were collected in 1999, 2000, 2002. Table A-3 identifies the related sample numbers.
[b]This sample was a composite sample of an equal number of mussels from sampling sites SW-26 and SW-27.
[c]Sample 29086-002 was a composite sample of mussels from sampling sites SW-26 and SW-27.
-Sample not collected

Table A-3
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Bay of Islands						
Blue mussel	227686	ADAK98	8/1/99	57	14	0.434
	227687	ADAK99	8/1/99	57	11	0.249
	227688	ADAK100	8/1/99	57	11	0.320
	227690	ADAK101	8/1/99	57	3	0.0720
					1999 Mean Value	0.269
	227727	BOIM02	7/1/00	58	5	0.0908
	227728	BOIM03	7/1/00	58	8	0.182
	227729	BOIM04	7/1/00	58	4	0.125
	227736	BOIM01	7/1/00	58	6	1.98
					2000 Mean Value	0.594
	227771	BI01M1	6/13/01	58	2	0.040
	227773	BI01M3	6/13/01	58	0	0.01[a]
	227772	BI01M2	6/28/01	58	1	0.023
					2001 Mean Value	0.024
	227812	BI02M1	6/14/02	58	1	0.0187
	227813	BI02M2	6/14/02	58	1	0.0229
	227814	BI02M3	6/14/02	58	2	0.0584
	227815	BI02M4	6/14/02	58	2	0.0399
					2002 Mean Value	0.035
	63044	BI-101	8/1/03	170	15	0.133
	63041	BI-102	8/1/03	170	20	0.198
	63043	BI-103	8/1/03	170	21	0.268
	63045	BI-104	8/1/03	170	18	0.207
	63042	BI-105	8/1/03	170	14	0.108
					2003 Mean Value	0.183
	BI101-061313	BI-101	6/13/13	168	59	0.230
	BI102-061313	BI-102	6/13/13	168	47	0.176
	BI103-061313	BI-103	6/13/13	168	59	0.193
	BI104-061313	BI-104	6/13/13	168	52	0.134
	BI105-061313	BI-105	6/13/13	168	55	0.142
					2013 Mean Value	0.175
Rock sole	227819	BI-04	7/1/00	56	16	1.14
	227823	BI-08	7/1/00	56	20	1.05
					2000 Mean Value	1.10
	63068	63068	8/2/03	170	24	0.313
	63069	63069	8/2/03	170	28	0.352
	63070	63070	8/2/03	170	27	0.314
	63071	63071	8/2/03	170	27	0.343
	63072	63072	8/2/03	170	21	0.279
					2003 Mean Value	0.320
	BI201-061413	BI201-061413	6/14/13	168	62	0.169
	BI202-061413	BI202-061413	6/14/13	168	60	0.172

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Bay of Island Rock Sole (Continued)	BI203-061413	BI203-061413	6/14/13	168	63	0.167
	BI204-061413	BI204-061413	6/14/13	168	78	0.320
	BI205-061413	BI205-061413	6/14/13	168	61	0.235
					2013 Mean Value	0.213
Kuluk Bay						
Blue mussel	227645	02	8/1/99	58	43	5.93
	227646	03	8/1/99	58	32	2.09
	227647	04	8/1/99	58	33	2.27
	227648	05	8/1/99	58	34	2.06
	227649	06	8/1/99	58	24	0.752
	227650	07	8/1/99	58	17	0.553
	227666	23	8/1/99	58	21	1.48
	227667	24	8/1/99	58	39	7.42
	227689	01	8/1/99	57	44	14.1
					1999 Mean Value	4.07
	227693	03	7/1/00	58	37	3.68
	227694	04	7/1/00	58	39	4.30
	227695	05	7/1/00	58	30	1.30
	227696	06	7/1/00	58	24	0.790
	227697	07	7/1/00	58	18	0.407
	227700	23	7/1/00	58	26	1.67
	227713	01	7/1/00	58	46	11.7
	227714	02	7/1/00	58	45	12.1
	227717	24	7/1/00	58	29	2.82
					2000 Mean Value	4.31
	227761	23	6/2/01	58	14	2.27
	227762	24	6/2/01	58	24	9.48
	227739	01	6/3/01	58	45	45.4
	227741	03	6/3/01	58	32	11.3
	227744	06	6/3/01	58	13	1.56
	227740	02	6/4/01	58	41	50.7
	227742	04	6/4/01	58	37	17.0
	227743	05	6/4/01	58	37	10.0
	227745	07	6/4/01	58	16	0.990
					2001 Mean Value	16.5
	227780	02	6/11/02	58	36	16.8
	227781	03	6/11/02	58	22	4.40
	227782	04	6/11/02	58	31	7.69
	227783	05	6/26/02	58	30	4.59
	227784	06	6/26/02	58	23	1.31
	227785	07	6/26/02	58	24	1.27
	227801	23	6/26/02	58	17	1.69
	227802	24	6/26/02	58	22	4.81

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Kuluk Bay Blue mussel (Continued)	227779	01	8/28/02	58	41	30.4
					2002 Mean Value	8.10
	63054	05	8/4/03	168	80	9.76
	63055	01	8/4/03	170	92	21.0
	63056	02	8/4/03	170	81	9.05
	63052	KB-101	8/4/03	170	87	18.5
	63053	KB-102	8/4/03	170	64	3.72
					2003 Mean Value	12.4
	230730	01	6/17/05	168	112	57.1
	230731	02	6/17/05	168	108	60.3
	230732	03	6/16/05	168	96	13.9
	230733	04	6/16/05	168	92	17.6
	230734	05	6/16/05	168	81	10.9
					2005 Mean Value	32.0
	29086-007	KB01	6/10/07	168	112	24.4
	29086-008	KBALT02	6/10/07	168	114	28.6
	29086-009	KB03	6/10/07	168	92	8.48
	29086-010	KB04	6/10/07	168	85	6.70
	29086-011	KB05	6/10/07	168	77	6.84
					2007 Mean Value	15.0
	KBALT02_062209	KBALT02	6/22/09	194	84	24.4
	KB-001_062209	KB01	6/22/09	194	93	37.8
	KB-003_062209	KB03	6/22/09	195	41	8.85
	KB-004_062209	KB04	6/22/09	195	72	14.0
	KB-005_062209	KB05	6/22/09	195	32	5.62
					2009 Mean Value	18.1
	KB01_061811	KB01	6/18/11	168	71	26.6
	KBALT02_061811	KBALT02	6/18/11	168	67	34.5
	KBALT03_061811	KBALT03	6/18/11	168	59	12.6
	KB04_061511	KB04	6/15/11	168	55	9.88
	KB05_061811	KB05	6/18/11	168	51	7.87
					2011 Mean Value	18.3
	KB01-061113	KB01	6/11/13	168	97	17.1
	KBALT02-061513	KBALT02	6/15/13	168	96	19.7
	KBALT03-061513	KBALT03	6/15/13	168	83	4.78
	KB04-061513	KB04	6/15/13	168	85	3.59
	KB05-061513	KB05	6/15/13	168	87	4.66
					2013 Mean Value	9.97
Rock sole	227623	AD-20	7/29/99	56	41	10.6
					1999 Mean Value	10.6
	227830	AD-01	7/1/00	56	44	2.53
	227837	AD-08	7/1/00	56	45	3.28
	227840	AD-11	7/1/00	56	45	9.21

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Kuluk Bay Rock sole (Continued)					2000 Mean Value	5.01
	227580	MSL01AK	8/29/01	58	40	14.6
	227582	MSL01AZ	8/31/01	58	12	0.928
					2001 Mean Value	7.75
	227608	MSL02AK	6/24/02	58	29	8.40
	227610	MSL02AZ	6/24/02	58	23	1.48
					2002 Mean Value	4.94
	63057	63057	7/30/03	170	85	8.88
	63060	63060	7/30/03	170	99	21.0
	63061	63061	7/30/03	170	88	10.8
	63059	63059	7/30/03	170	94	10.4
	63058	63058	7/30/03	170	96	16.5
					2003 Mean Value	13.5
	230719	230719	6/14/05	168	75	4.88
	230720	230720	6/14/05	168	86	11.0
	230721	230721	6/14/05	168	81	6.63
	230722	230722	6/14/05	168	80	10.4
	230723	230723	6/14/05	168	80	5.56
					2005 Mean Value	7.69
	29085-007	KB201	6/4/07	168	93	15.5
	29085-008	KB202	6/4/07	168	87	5.58
	29085-009	KB203	6/4/07	168	83	4.59
	29085-010	KB204	6/4/07	168	96	17.4
	29085-011	KB205	6/4/07	168	93	17.5
					2007 Mean Value	12.1
	KB201_062609	KB-204	6/26/09	195	33	4.86
	KB202_062609	KB-204	6/26/09	195	48	12.8
	KB203_062609	KB-204	6/26/09	195	26	3.99
	KB204_062609	KB-204	6/26/09	195	42	7.83
	KB205_062609	KB-204	6/26/09	195	20	2.53
					2009 Mean Value	6.40
	KB1_061411	KB1_061411	6/14/11	168	81	2.51
	KB2_061411	KB2_061411	6/14/11	168	67	15.2
	KB3_061411	KB3_061411	6/14/11	168	95	35.3
	KB4_061411	KB4_061411	6/14/11	168	48	3.73
	KB5_061411	KB5_061411	6/14/11	168	89	7.84
					2011 Mean Value	12.9
	KB201-061213	KB201-061213	6/12/13	168	82	1.36
	KB202-061213	KB202-061213	6/12/13	168	75	1.33
	KB203-061213	KB203-061213	6/12/13	168	83	1.91
	KB204-061213	KB204-061213	6/12/13	168	87	2.61

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Kuluk Bay Rock sole Continued)	KB205-061213	KB205-061213	6/12/13	168	87	1.47
					2013 Mean Value	1.73
Sweeper Cove						
Blue mussel	227668	25	8/1/99	58	40	9.66
	227669	26	8/1/99	58	46	35.7
	227670	27	8/1/99	58	47	35.2
	227671	30	8/1/99	58	51	33.7
	227672	31	8/1/99	58	43	11.5
	227674	ADAK83	8/1/99	58	51	89.9
	227675	29	8/1/99	58	47	35.1
	227676	28	8/1/99	58	50	97.0
					1999 Mean Value	43.5
	227715	25	7/1/00	57	35	5.22
	227716	31	7/1/00	58	44	15.4
	227718	27	7/1/00	58	36	8.76
	227719	28	7/1/00	58	47	345
	227720	29	7/1/00	58	46	26.4
	227721	30	7/1/00	58	44	14.4
	227734	26	7/1/00	58	44	10.4
					2000 Mean Value	60.9
	227763	25	6/1/01	58	24	7.19
	227764	26	6/1/01	58	28	12.7
	227765	27	6/1/01	58	31	15.9
	227766	28	6/1/01	58	34	57.7
	227767	29	6/1/01	58	35	26.8
	227768	30	6/1/01	58	36	28.5
	227769	31	6/1/01	58	32	22.3
					2001 Mean Value	24.4
	227806	28	6/11/02	58	32	98.0
	227807	29	6/11/02	58	32	23.7
	227808	30	6/11/02	58	32	14.2
	227809	31	6/11/02	58	27	10.1
	227803	25	6/26/02	58	24	5.50
	227804	26	6/26/02	58	24	9.02
	227805	27	6/26/02	58	30	19.2
					2002 Mean Value	25.7
	63046	31	8/4/03	170	99	39.3
	63047	SW-102	8/4/03	170	97	45.5
	63051	SW-102	8/4/03	170	98	38.4[b]
	63048	SW-103	8/4/03	170	91	22.7
	63049	25	8/4/03	170	86	15.2
	63050	27	8/4/03	170	97	43.6

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Sweeper Cove Blue mussel (Continued)					2003 Mean Value	33.3
	230724	25	6/16/05	168	96	22.5
	230725	26/27	6/16/05	168	104	57.3
	230726	28	6/17/05	168	132	458 [b]
	230727	28	6/17/05	168	132	483
	230728	31	6/17/05	168	99	41.4
	230729	102	6/17/05	168	106	63.2
					2005 Mean Value	133
	29086-001	SW25	6/10/07	168	103	15.7
	29086-002	SW26/27	6/10/07	168	106	28.8
	29086-003	SW28	6/10/07	168	125	138
	29086-004	SW31	6/10/07	168	102	28.3
	29086-005	SW46	6/10/07	168	123	112 [b,c]
	29086-006	SW102	6/10/07	168	107	28.6
					2007 Mean Value	47.9
	SW-102_062309	SW-102	6/23/09	195	50	24.3
	SW-31_062309	SW31	6/23/09	195	71	22.8
	SW-28_062309	SW28	6/23/09	195	87	144
	SW-28D_062309	SW28	6/23/09	195	86	140 [b]
	SW-25_062709	SW25	6/27/09	195	40	9.59
	SW-26_27_062709	SW26/27	6/27/09	195	41	11.9
					2009 Mean Value	42.5
	SW25_061811	SW25	6/18/11	168	70	10.1
	SW26/27_061811	SW26/27	6/18/11	168	63	23.6
	SW28_061511	SW28	6/15/11	168	92	178
	SW31_06151	SW31	6/15/11	168	72	30.3
	SW102_061511	SW102	6/15/11	168	71	28.5
					2011 Mean Value	54.1
	SW25-061513	SW25	6/15/13	168	97	14.5
	SW26/27-061513	SW26/27	6/15/13	168	89	18.0
	SW28-061113	SW28	6/11/13	168	97	81.3
	SW28DUP-061113	SW28	6/11/13	168	95	72.4 [b]
	SW31-061113	SW31	6/11/13	168	108	23.3
	SW102-061113	SW102	6/11/13	168	97	24.5
					2013 Mean Value	32.3
Rock sole	227619	AD-07	8/13/99	56	41	52.9
					1999 Mean Value	52.9
	227848	AD-19	7/1/00	56	46	31.1
	227849	AD-23	7/1/00	56	48	81.4
					2000 Mean Value	56.2
	227579	MSL01AI	6/18/01	58	41	79.4
	227581	MSL01AO	8/31/01	58	41	44.6
					2001 Mean Value	62.0

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes (µg/kg wet weight)
Sweeper Cove Rock Sole (Continued)	227607	MSL02AI	6/24/02	58	41	120
	227609	MSL02AO	6/24/02	58	43	55.5
					2002 Mean Value	87.5
	63062	63062	7/31/03	170	112	132
	63067	63067	7/31/03	170	110	78.6
	63063	63063	7/31/03	170	104	73.4
	63064	63064	7/31/03	170	110	113
	63065	63065	7/31/03	170	104	79.5
	63066	63066	7/31/03	170	111	98.8
					2003 Mean Value	96.0
	230713	230713	6/14/05	168	86	25.9
	230714	230714	6/14/05	168	88	23.9
	230715	230715	6/14/05	168	85	14.8
	230716	230716	6/14/05	168	86	17.1
	230717	230717	6/14/05	168	85	13.1
	230718	230718	6/14/05	168	88	22.1
					2005 Mean Value	19.5
	29085-001	SW201	6/4/07	168	101	80.4
	29085-002	SW202	6/4/07	168	112	127
	29085-003	SW203	6/4/07	168	102	57.7
	29085-004	SW204	6/4/07	168	94	11.5
	29085-005	SW205	6/4/07	168	101	39.2
	29085-006	SW206	6/4/07	168	99	39.0 [b,d]
					2007 Mean Value	59.1
	SW201_062609	SW-204	6/26/09	195	80	49.4
	SW202_062609	SW-204	6/26/09	195	72	38.7
	SW203_062609	SW-204	6/26/09	195	84	60.9
	SW204_062609	SW-204	6/26/09	195	77	39.6
	SW205_062609	SW-204	6/26/09	195	67	33.5
	SW206_062609	SW-204	6/26/09	195	78	45.0
					2009 Mean Value	44.5
	SW1_061411	SW1_061411	6/14/11	168	81	66.7
	SW2_061411	SW2_061411	6/14/11	168	104	67.1
	SW3_061411	SW3_061411	6/14/11	168	101	29.4
	SW4_061411	SW4_061411	6/14/11	168	91	53.8
	SW5_061411	SW5_061411	6/14/11	168	77	64.5
	SW6_061411	SW6_061411	6/14/11	168	83	138.0
					2011 Mean Value	69.9
	SW201-061013	SW201-061013	6/10/13	168	97	110
	SW202-061013	SW202-061013	6/10/13	168	102	34.6
	SW203-061013	SW203-061013	6/10/13	168	94	39.4
	SW204-061113	SW204-061113	6/10/13	168	104	27.1
	SW205-061113	SW205-061113	6/10/13	168	91	46.5
					2013 Mean Value	51.6

Table A-3 (continued)
Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected From Bay of Islands, Kuluk Bay, and Sweeper Cove From 1999 Through 2013

[a]Even though no PCB was detected, the detection limit of 0.01 µg/kg was used to calculate the mean.
[b]Not used to calculate the mean value because it is a duplicate sample from the same sampling location.
[c]Sample 29086-005 is a duplicate sample taken from location SW-28. The regular sample taken at this location is sample 29086-003.
[d]Sample 29085-006 is a duplicate (split) of sample 29086-005.

Notes:
µg/kg - microgram per kilogram
PCBs - polychlorinated biphenyls
The 2007 data was adjusted to exclude all nondetected values in calculating the sum of detected analytes.

Attachment 1.01

Field Log Book – 2013 Adak Marine Monitoring

2013

"Rite in the Rain"®
ALL-WEATHER
ENVIRONMENTAL
No. 550-4F

Adak Marine Monitoring

Book #1

Project: TO 67 2013 Adak
Marine Monitoring

Navy Installation: Former Adak
Naval Complex, Adak, Alaska

Start Field Work: 6-10-13

Book Assignment: Tom Abbott - Field
Lead/Site Supervisor

Company: URS - Seattle Office
206.438.2700

Sealaska Environmental Services
18743 Front St. NE, Suite 201
Poulsbo, WA 98370
360.930.3300

Sealaska PM: Jim Ruef
206.930.9623

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

ALL-WEATHER
ENVIRONMENTAL FIELD BOOK

Name Tom Abbott
URS/Sealaska
Address 1501 Fourth Ave, Suite 1400
Seattle, WA 98065
Phone 206.438.2004
cell: 425.281.8323

Project 2013 Adak Marine Monitoring
TO 67

This book is printed on "Rite in the Rain" All-Weather Writing Paper - A unique paper created to shed water and enhance the written image. It is widely used throughout the world for recording critical field data in all kinds of weather. For best results, use a pencil or an all-weather pen.

Specifications for this book:

Page Pattern		Cover Options	
Left Page	Right Page	Polydura Cover	Fatboard Cover
Calendar	Int. Grid	N/A	Item No. 595-4F

© 1996 J. L. DARLING CORP.

CONTENTS

PAGE	REFERENCE	DATE
3	Trawling in Sweeper Cove	6/10/13
10	Filleting rock sole from Sweeper Cove, Collecting blue mussels from some Sweeper Cove and Kuluk Bay locations, Processing blue mussel tissue	6/11/13
13	Trawling in Kuluk Bay, Processing rock sole	6/12/13
~~19~~	~~Trawling in Bay of Islands~~	~~6/14/13~~
17	Travel to Bay of Islands, Collecting blue mussels from Bay of Islands locations, Processing blue mussels	6/13/13
19	Trawling in Bay of Islands, Processing rock sole tissue	6/14/13
26	Travel back to downtown Adak, Collecting blue mussels from	6/15/13

Reference Page Index

67 Error codes, Hazardous classifications, Container types
68 Sampling guidelines (Liquids)
69 Sampling guidelines (Solids)
70 Approximate Volume of Water in Casing or Hole, Ground Water Monitoring Well
71 PVC Pipe casing tables
72 Soil Classification
73 Soil Classification
74 Conversions (Length, Weight, Volume, Temp, etc...)
75 Conversions (Concentrations, Volume/Flow or Time, Velocity, Acceleration)
76 Maximum Concentration of Contaminants for the Toxicity Characteristic

CONTENTS

PAGE	REFERENCE	DATE
	remaining locations in Sweeper Cove and Kuluk Bay, Processing blue mussels	
28	Completed processing blue mussels, Leave Adak	6/10/13

Location Adak, AK Date 6/10/13

Project / Client 2013 Adak Marine Mon./SES

Tom Abbott

Weather: Cloudy 50°F, wind 5-15 mph
Crew: Tom Abbott, John Highstone
Activity: Travel in Sweeper Cove

0750 Tom and John did dry run of rock sole and blue mussel tissue processing in field office (Tom's condo 111-C)

0850 Arrive at and load equipment on Larisa M (Rod Whiteheads vessel)

Others on board vessel: Tony, Joshua Joseph, Rod, Aaron Vernik, (John & Tom)

0915 Try on survival suits

Flare gun, flares, streamer marker, 2 cans smoke to signal in water-tight bucket

Rod explained all grap. hazards on boat

John (SSHO) recorded notes

0950 John had "tailgate" safety meeting

Tom Abbott 6/10/13

Location Adak, Ak Date 6-10-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

1012 Leave dock, took photos 1+2 of setup
Rig pulley, get set to trawl
Photos

Sweeper Trawl #1

Time Start 11:26
Time End 1138
GPS Start 51°51.4082 N 176° 38.3753 W
GPS End 51° 51.3766 N 176° 38.9605 W
Water Depth 12 fathoms to 15 fathoms
Tow Speed ≈ 2 knots
current speed ≈ 0.5 knot to east
Tidal stage: ebb
Compass heading ≈ 250°

Catch
Rock Sole
Adult - (2)
Juvenile ~~5~~ 7

Sea cucumbers - dozens
Sea urchins
Sand Dollars
Tom Abbott 6/10/13

Location Adak Date 6-10-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Various bivalves
Couple crabs (Tanner + Hermit)
Juvenile Halibut (1)
Irish lords 1

Rod said other trawl may not have been dragging on bottom the entire trawl
Will attempt to trawl similar trawl line

1222 Sweeper Trawl #2

Time Start 1222
Time End 1244
GPS Start Lat 51°51.4592 N
GPS Start Long 176° 38.2469 W
GPS End Lat 51°51.37~~66~~44 N ra
GPS End Long 176° 38.96~~05~~70 W ra
Water depth 14.7 fathoms
Tow Speed ≈ 1.5 knots
Current Speed ≈ 0.5 knot to East
Tidal Stage: ebb
Compass heading ≈ 261°

Catch: Rock Sole Adult ~~IIII~~ (6)
Other Sole III
Juveniles ~~IIII~~ II

Tom Abbott 6/10/13

Location Adak Date 6-10-13

Project / Client 2013 Marine Monitoring

Tom Abbott

SKATE - 11
SEAURCHENTS
BIVALVES
SEA ANEMONE
IRISH LORD
STICKLE BACKS (Also large tire in net)

1335 Lunch break while crew sets up trawl

~~0700~~ 1400 Sweeper Trawl #3

Time Start 1400
Time End 1420
GPS Start Lat 51° 51.4528 N
GPS Start Long 176° 38.1334 W
GPS End Lat 51° 51.3373 N
GPS End Long 176° 38.9326 W
Water Depth 15.4 fathoms
Tow Speed 1.1 to 3.1 knots
Tidal Stage Ebb
Compass heading: 261°
Current speed ~ 0.5 knots east

Catch: Rock sole adult 1111 (4)
Rock sole ~~juvenile~~ OTHER 1111 11
ROCK SOLE JUVENILE - 15-20

Tom Abbott 6/10/13

Location Adak Date 6-10-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

SEAURCHINTS
SEVERAL SEA STARS PRESENT
(2) SKATES
SEA ANEMONE - 2
STICKLE BACKS
SEA CUCUMBERS
BI VALVES

Sweeper Trawl #4 will try a bit shallower depth

Time Start 1504
Time End 1540
GPS Start Lat ~~55~~ 51° 51.5504 N
GPS Start Long 176° 37.9646 W
GPS End Lat* 51° 51.8738 N
GPS End Long* 176° 38.8113 W
Water Depth ~~11.7~~ 13.1 to 9.3 fathoms
Tow Speed 1.2 knots to 2.3 knots
Tidal stage —
Compass heading 267°
Current speed ~~1.1~~

*Bearing Change: GPS Lat 51° 51.5600 N
GPS Long 176° 38.3925 W

Tom Abbott 6/10/13

Location Adak Date 6-10-13

Project / Client 2013 Marine Monitoring

Tom Abbott

1534 *Bearing change GPS Lat 51° 51.3881 N
GPS Long 176° 39.0154 W
1537 *Bearing change GPS Long 51°51.2832 N
GPS Lat 176° 38.9654 W
Catch Rock Sole ADULT ~~IIII IIII IIII~~ II (17)
Rock Sole OTHER
Rock Sole Juvenile 2 DOZEN
SKATE (1) SEA ANCHANTS
JELLY FISH BIVALVES
STICKLE BACKS SEA ANEMONE
KING CRAB 1 IRISH LORDS
1642 Sweeper Trawl #5
Time Start 1642
Time End 1700
GPS Start Lat 51° 51.4815 N
GPS Start Long 176° 38.4646 W
GPS End Lat* 51° 51.4051 N
GPS End Long* 176° 38.9023 W
Water Depth 11.9
Tow Speed 1.1
Tidal Stage —
Tom Abbott 6/10/13

Location Adak Date 6-10-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Current Speed —
Compass heading 271°
*Bearing change GPS Lat 51° 51.4922 N
GPS Long 176° 38.7171 W
*Bearing change GPS Lat 51°51.4348 N
GPS Long 176°38.9556 W
CATCH Rock Sole ADULT ~~IIII~~ (5)
Rock Sole OTHER
dumped remaining catch back and did not count other catch. Had required catch.
1800 arrive at condo / Supper
1900 Begin processing fish tissue
2230 Stopped filleting
Completed 3 samples

Sample ID	Time Processed	Wet Weight (g)
SW201-061013	1938	75 g
SW202-061013	2045	75.5 g
SW203-061013	2135	76.1 g

Tom Abbott
6/10/13

Location Adak Date 6-11-13

Project / Client 2013 Adak Marine Monitoring

To ~~[illegible]~~

Weather: Cloudy, Windy 30 mph gusts 5 mph in town, Rain afternoon, 45°F

Crew: Tom Abbott, John Highstand

Activity: Filet fish and collect + shuck Mussel from Sweeper / Kuluk

0700 Begin filleting

0855 Finished filleting three rock sole samples from Sweeper Cove

Sample ID	Time processed	Wet Weight (g)
SW204-061113	0720	75.5
SW205-061113	0748	75.3
SW206-06113	0813	75.6

1000 H+S meeting led by John
Stephanie Joyce from KUCB radio
Aaron Verrik, John Tom
Aaron discussed scope of work ~~with~~
for 2013 Adak Marine work

1030 Arrive at SW-28 collected 1038
Lat 51.95028 N
Long 176.655024 W
low tide is not very low
collect SW-28 and duplicate

To ~~[illegible]~~ 6-11-13

Location Adak Date 6-11-13

Project / Client 2013 Adak Marine Monitoring

1038 SW-28 Duplicate
collected approx 20 for each sample due to variability of size

1115 SW-102
Coords: 51.85900 N
176.65300 W
collected 20 mussels

1135 SW-31
Coords 51.86151 N
176.640 W
40
Collected 20 mussels

1155 KB-01
Coords 51.86341 N
176.62950 W
Collected 21 mussels

1215 Break for lunch

1330 Begin processing blue mussel

1900 Complete mussel processing

To ~~[illegible]~~ 6-11-13

Location Adak Date 6/12/13

Project / Client 2013 Adak Marine Monitoring

T. Abbott

Sample ID	Time processed	Tissue weight (g)
SW28-061113	1352	113.6
SW28DUP-061113	1455	110.2
SW102-061113	1610	113.6
SW31-061113	1705	51.9
KB01-061113	1815	50.6

T. Abbott 6/12/13

Location Adak Date 6/12/13

Project / Client 2013 Adak Marine Monitoring

Weather: Cloudy, rainy 0-10 mph wind, 45°-50°

Crew: Abbott + Kapsmar

Activity: Trawl for rock sole in Kuluk Bay and process tissue

0800 Red Whitehead says OK to trawl in Kuluk Bay. Meet at boat @ 0900

0845 Arrive at Larissa M

0915 Safety meeting led by Red + John

0925 Leave dock - will try long, shallow trawl

1036 Kuluk Trawl #1 calm sea

Time Start 1036

Time End 1110

GPS Start Lat 51° 53.9136 N

GPS Start Long 176° 34.5903 W

GPS End Lat* 51° 53.7388 N

GPS End Long* 176° 35.6476 W

Water Depth 10 - 13 fathoms

Tow Speed 1.2 knots

Tidal Stage high ebb

Current Speed 0 knots

Compass heading 268°

Tom Abbott 6-12-13

Location Adak Date 6-12-13

Project / Client Adak Marine Monitoring

Tom Abbott

*Bearing change Lat 51° 53.9115 N
Long 176° 35.0566 W

Catch: ROCK SOLE ~~IIII~~ ~~IIII~~ ~~IIII~~ (15)

SKATE (3)
JUVENILE ROCK SOLE (12)
STICKLEBACKS 3-4
SANDDOLLARS

1155 Kuluk Trawl #2 calm sea

Time Start 1155
Time End 1229
GPS Start Lat 51° 53.8023 N
GPS Start Long 176° 34.8886 W
GPS End Lat 51° 53.6559 N
GPS End Long 176° 36.1353 W
Water Depth 13 to 15 fathoms
Tow Speed 1.4 knots
Tidal Stage low
Current Speed 0
Compass Heading ~~272°~~ 253°

Empty net - did not display correctly

Tom Abbott 6-12-13

Location Adak Date 6-12-13

Project / Client Adak Marine Monitoring

Tom Abbott

1313 Kuluk Trawl #3 calm sea

Time Start 1313
Time End 1336
GPS Start Lat 51° 53.8990 N
GPS Start Long 176° 35.2927 W
GPS End Lat* 51° 53.7042 N
GPS End Long* 176° 35.7295 W
Water Depth 11
Tow Speed 1.2 knots
Tidal Stage low
Current Speed 0
Compass heading 272° to 229°
*Bearing change lat 51° 53.8765 N
Long 176° 35.4484 W

Note: May have picked up something large because speed dropped off quickly to 0.5 knots about half way through trawl (large cable hook on to net)

Catch: ROCK SOLE ~~IIII~~ ~~IIII~~ I (11)
JUVENILE SOLE 12
JELLY FISH, STICKLEBACK, SEA URCHINS, SANDDOLLAR

Tom Abbott 6-12-13

Location Adak Date 6-12-13

Project / Client 2013 Adak Marine Monitoring
Tom Abbott

1530 Arrive back at small boat harbor
1600 Begin processing fish (washing first)

Sample ID	Time Processed	Tissue weight (g)
KB201-061213	1634	75.2
KB202-061213	1656	75.5
KB203-061213	1728	75.5
KB204-061213	1753	75.8
KB205-061213	1820	75.4

~~0710~~ 1900 complete processing and gather equipment, load boat
0720 Boat loaded for Bay of Islands

Tom Abbott
6-12-13

Location Adak Date 6-13-13

Project / Client 2013 Adak Marine Monitoring
Tom Abbott

Weather: Cloudy, 45°-50° Drizzle, wind 5-10 mph
Crew: Abbott, Highstone
Activity: Motor to Bay of Islands and collect mussel samples
0500 Meet at vessel - Rod, Joey, Josh, Tony, John, Aaron, Tom aboard
~~1015~~ 0530 Leave dock after safety meeting
1015 Arrive at Bay of Islands, mark locations on navigational chart and set up for mussel collection
1120 ~~SW~~ B1-104
Lat 51.80235 N
Long 176.79845 W
had to move along shoreline in area to find mussels
1220 B1-105
Lat 51.81432 N
Long 176.83960 W
1300 Arrive back at vessel
1414 B1-103

Tom Abbott 6-13-13

Location Adak Date 6-13-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Lat 51.80455 N

Long 176.75784 W

Collected about 40 due to size

1455 BI-102

Lat 51.78722 N

Long 176.74931 W

Collected 24

1515 Arrive back to vessel

move vessel to next BI-101

1623 BI-101

Lat 51.78060 N

Long 176.80342 W

Collected 31

1700 Begin processing mussel from Bay of Islands

Sample ID	Time Processed	Tissue weight(g)
BI101-061313	1710	65.3
BI102-061313	1724	72.8
BI103-061313	2047	66.4
BI104-061313	1900	57.1
BI104-061313	2005	50.2

~~BI~~ 40 end Tom Abbott 6-13-13

Location Adak Date 6-~~13~~ 14-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Weather: Cloudy, calm, 50°F

Crew: Abbott, Highstone - others on board

Activity: Trawl for rock sole in Bay of Islands

0800 Prepare otter trawl - search bottom

0850 Health and safety meeting

0915 Drop trawl line

0932 Start trawl

Bay of Islands Trawl #1

Time Start 0932 in Unalga Bight

Time End 0950

GPS Start Lat 51° 46.9959 N

GPS Start Long 176° 48.3607 W

GPS End Lat* 51° 46.9461 N

GPS End Long* 176° 48.0829 W

Water Depth 13 to 15 fathoms

Tow Speed 1.0 knot

Tidal Stage High tide

Current Speed - 0

Compass Heading 157° varying

*Bearing change Lat 51° 46.9142 N

Tom Abbott 6-14-13

Location Adak Date 6-14-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Long 176° 48.4001 W

*Bearing change Lat 51°46.8824 N

Long 176° 48.3452 W

CATCH: ADULT ROCKSOLE 11 (2)

JUVENILE ROCKSOLE 2 DOZEN

SEA ANEMONE - 2 DOZEN

JUVENILE KING CRABS

SEA STAR, SHRIMP, BIVALVES,

IRISH LORDS

1235 Bay of Islands Trawl #2

in Gannet Cove (initial attempt got stuck on rock)

Time Start 1235

Time End 1247

GPS Start Lat 51° 47.3146 N

GPS Start Long 176° 43.0701 W

GPS End Lat* 51° 47.2414 N

GPS End Long* 176° 42.6922 W

Water Depth 17 - 11 fathoms

Tow Speed 1.3

Tidal Stage High

Current Speed 0

Tom Abbott 6-14-13

Location Adak Date 6-14-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Compass Heading 100° varying

*Bearing change Lat 51° 47.2805 N

Long 176° 42.9073 W

*Bearing change Lat 51° 47.2935 N

Long 176° 42.6592 W

*Bearing change Lat 51° 47.2572 N

Long 176° 42.6652 W

Extra? Catch: ADULT ROCKSOLE 11 (8)

JUVENILE ROCKSOLE - 2 DOZEN

SEA ANEMONE, IRISH LORDS, SINGLE ELDERBERRY

BIVALVES, STICKLEBACK, GREELING

TANNER CRAB, JELLY FISH

Bay of Islands Trawl #3

Time Start 1318 in Gannet Cove

Time End 1334

GPS Start Lat 51° 47.2584 N

GPS Start Long 176° 43.0579 W

GPS End Lat* 51° 47.2775 N

GPS End Long* 176° 42.6808 W

Water Depth 16 - 11 fathoms

Tow Speed 1.2 knots

Tom Abbott 6-14-13

Location Adak Date 6-14-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

Tidal stage ebb

Current speed 0

Bearing Change Lat 51° 47.2488N

Long 176° 42.8037W

CATCH: ADULT ROCK SOLE ~~IIII~~ III (8)

JUVENILE ROCK SOLE 2 DOZEN

SEA ANEMONE, IRISH LORDS SEA

1 EXTRA? URCHANTS, 8 SMALL CRAB, SHRIMP

BI VALVES, GREELING

1330 Bay of Islands Trawl #4

in Beverly Cove

Time Start 1330

Time End 1337

GPS Start Lat 51° 47.8168N

GPS Start Long 176° 44.1735 W

GPS End Lat 51° 47.8678N

GPS End Long 176 43.9626 W

Water Depth 17 to 13 fathoms

Tow Speed 1.6

Tidal Stage ebb

Compass Heading 70° varying

Tom Abbott 6-14-13

Location Adak Date 6-14-13

Project / Client 2013 Adak Marine Monitoring

Tom Abbott

CATCH: ADULT ROCK SOLE II (2)

JUVENILE ROCK SOLE 1 DOZEN

TANNER CRAB, GREELING, SEA URCHANTS

SHRIMP, BI VALVES

Bay of Islands Trawl #5

in Fisherman Cove

Time Start 1435

Time End 1444

GPS Start Lat 51° 47.9258N

GPS Start Long 176° 50.1008W

GPS End Lat* 51° 47.7986 N

GPS End Long* 176° 49.8869W

Water Depth 20 m

Tow Speed 1.5 knots

Tidal Stage slack

Compass Heading 177°

*Bearing change lat 51° 47.8207N

Long 176° 50.0467 W

Catch: Adult Rock Sole - II (2)

Juvenile Rock Sole

Sea urchin, anemones, crabs, Skunweed

Irish Lord, SHRIMP Tom Abbott 6-14-13

Location Adak Date 6-14-13

Project / Client 2013 Marine Monitoring

Tom Abbott

1529 Bay of Islands Trawl #6 in Unalga Bight

Time Start 1529

Time End 1539

GPS Start Lat 51° 47.0818 N

GPS Start Long 176° 48.1493 W

GPS End Lat 51° 46.9470 N

GPS End Long 176° 48.3356 N

Water Depth 22 FT

Tow Speed 1.5 Knots

Tidal Stage slack to low

Compass heading 225°

Catch: ADULT ROCK SOLE 111 (3)

JUVENILE ROCK SOLE 1 DOZEN

SEA CUCUMBER, ANEMONE, SPONGES

SCALLOPS, SHRIMP, IRISH COD

1630 Set up and start processing rock sole tissue

1837 Completed rock sole processing

Tom Abbott 6-14-13

Location Adak Date 6-14-13

Project / Client 2013 Marine Sampling

Tom Abbott

Sample ID	Process Time	Tissue Weight (g)
BI201-061413	1640	75.1
BI202-061413	1655	75.7
BI203-061413	1728	74.8
BI204-061413	1743	75.60
BI205-061413	1810	74.9

Tom Abbott 6-14-13

Location Adak Date 6-15-13

Project / Client 2013 Marine Monitoring
Tom Abbott

Weather: Rain, 45°-50° F, wind 5-10 mph

Crew: Tom Abbott, John Highstone w/others on board

Activity: Return to Port from Bay of Islands and collect mussels from S side of Sweeper

0730 Aaron + Rod took skiff to inspect former ASTs and drums near Fisherman Cove

0945 Head back to port

~~2010~~ 2110 SW-25 Rod + Tom
Coords 51.85459 N
176.62973 W
collected ~22 mussels

~~2010~~ 2120 SW-26
Coords 51.85360° N
176.64059° W
collected ~15 mussels

~~2030~~ 2130 SW-27
Coords 51.85097
176.64197
collected ~15 mussels

Tom Abbott 6-15-13

Location Adak Date 6-15-13

Project / Client 2013 Marine Monitoring
Tom Abbott

~~2147~~ 2100 KB-05 Aaron & John
Coords: 51.90392 N
176.61345 W

2128 KB-04
Coords: 51.88984 N
176.62517 W

2147 KBALT-03
Coords 51.87949 N
176.62788 W

2221 KBALT-02
Coords 51.86733 N
176.62669 W

2330 Began processing

0030 Completed processing two samples

Sample ID	Time Processed	Tissue Weight (g)
KB05-061513	2343	53.7
KB04-061513	0017 on 6-16-13	67.3

Tom Abbott 6-15-13

Location Adak Date 6-16-13

Project / Client 2013 Marine Monitoring

Tom Abbott

Weather: Cloudy, 0-5 mph wind

Crew: Tom Abbott, John Highstone, Aaron Kernik

Activity: Process mussels, pack coolers and equipment

0730 Start processing mussels

Sample ID	Time processed	Tissue weight
KBALT03-061513	0745	54.2
KBALT02-061513	0814	52.1
SW25-061513	0910	58.4
SW26/27-061513	0940	55.7

1030 Completed processing, clean up prepare chain

Questions for Jim Ruef

① Temperature blank? in with jars sample? will return temp blanks

② Contract/PO w/ lab? PO-00624

③ Sample disposal? Archive 6 months

completed chain-of-custodies 205787, 205788, 205791

Tom Abbott 6-16-13

Location Adak Date 6-16-13

Project / Client 2013 Marine Monitoring

Tom Abbott

~~03~~ 1545 Dropped off baggage and sampling equipment

1800 Leave Adak on flight to Anchorage

2200 Arrive at hotel in Anchorage

Tom Abbott 6-16-13

Attachment 1.02

Blue Mussel Collection Forms – 2013 Adak Monitoring

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-13-13
STATION NUMBER: BI-101
LATITUDE: 51.78060 N
SAMPLE ID: BI 101-061313

SITE: BAY OF ISLANDS
TIME: 1710 processed, 1623 collected
SAMPLER: T. ABBOTT, J. HIGHSTONE
LONGITUDE: 176.80342 W
TOTAL WET WEIGHT: 65.3

#	Length (mm)	Weight Shell (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	54.0	15.7	4.5	26		
2	51.1	16.8	4.9	27		
3	50.9	14.6	3.7	28		
4	49.8	15.6	4.8	29		
5	51.8	16.3	5.4	30		
6	50.2	18.4	5.2	31		
7	49.5	14.8	4.3	32		
8	50.0	12.7	5.3	33		
9	48.8	12.3	4.1	34		
10	48.1	13.5	3.5	35		
11	50.2	14.0	5.0	36		
12	~~46.6~~			37		
13	47.3	14.7	4.2	38		
14	49.0	12.1	3.6	39		
15	47.2	12.3	3.7	40		
16	46.1	12.4	3.1	41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All ~~musels~~ mussels appear to be in good condition. Some mussels have barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-13-13
STATION NUMBER: BI-102
LATITUDE: 51.78722 N
SAMPLE ID: BI102-061313

SITE: BAY OF ISLANDS
TIME: 1455 sampled, 1724 processed
SAMPLER: T. ABBOTT, J. HIGHSTONE
LONGITUDE: 176.74931 W
TOTAL WET WEIGHT: 72.8

#	Length (mm)	Weight Shell (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	55.0	19.5	7.0	26		
2	53.4	19.0	6.0	27		
3	54.5	20.7	7.1	28		
4	52.5	19.4	5.9	29		
5	50.0	15.8	5.3	30		
6	50.9	14.8	4.8	31		
7	52.5	16.8	4.8	32		
8	49.9	16.7	4.2	33		
9	52.6	17.6	4.4	34		
10	52.1	18.4	4.8	35		
11	51.6	16.1	4.3	36		
12	50.4	13.2	3.1	37		
13	50.3	14.0	4.5	38		
14	49.4	15.3	4.2	39		
15	47.7	13.7	3.4	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition. Some mussels have barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-13-13
STATION NUMBER: BI-103
LATITUDE: 51.80455 N
SAMPLE ID: BI103-061313

SITE: BAY OF ISLANDS
TIME: 1414 sampled, 2047 processed
SAMPLER: T. ABBOTT, J. HIGHSTONE
LONGITUDE: 176.75784 W
TOTAL WET WEIGHT: 66.4

#	Length (mm)	Weight Shell (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	56.0	20.7	6.9	26		
2	55.4	18.1	6.4	27		
3	53.8	17.4	3.9	28		
4	55.3	19.3	6.8	29		
5	52.0	15.7	4.5	30		
6	50.8	16.2	4.4	31		
7	48.2	14.5	3.8	32		
8	48.0	14.9	5.7	33		
9	47.5	13.3	3.7	34		
10	45.7	13.9	2.8	35		
11	48.0	11.4	4.2	36		
12	46.0	12.1	3.4	37		
13	45.4	12.1	3.3	38		
14	45.5	9.6	2.9	39		
15	44.0	10.9	3.7	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition. Some mussels have barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-13-13
STATION NUMBER: BI-104
LATITUDE: 51.80235 N
SAMPLE ID: BI104-061313

SITE: BAY OF ISLANDS
TIME: 1120 sampled 1900 Processed
SAMPLER: T. ABBOTT, J. HIGHSTONE
LONGITUDE: 176.79845 W
TOTAL WET WEIGHT: 57.1

#	Length (mm)	Weight Shell (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	50.7	13.5	4.3	26		
2	51.7	17.2	4.2	27		
3	49.0	15.8	5.9	28		
4	47.7	12.0	4.3	29		
5	48.5	15.0	4.3	30		
6	49.8	16.3	4.2	31		
7	48.0	11.7	4.8	32		
8	44.3	12.0	2.8	33		
9	44.6	16.3	3.6	34		
10	44.2	13.3	4.4	35		
11	43.9	11.5	3.1	36		
12	42.8	8.8	2.7	37		
13	42.2	9.3	3.4	38		
14	42.5	8.9	2.5	39		
15	43.0	8.6	2.6	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in fine ~~shape~~ condition. Some mussels have barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-13-13
STATION NUMBER: BI-105
LATITUDE: 51.81432 N
SAMPLE ID: BI105-061313

SITE: BAY OF ISLANDS
TIME: 1220 Collected 2005 processed
SAMPLER: T. ABBOTT, J. HIGHSTONE
LONGITUDE: 176.83960 W
TOTAL WET WEIGHT: 50.2

#	Length (mm)	Weight (g) Total	Weight (g) Tissue	#	Length (mm)	Weight (g)
1	48.5	12.4	3.4	26		
2	47.6	11.4	3.9	27		
3	46.1	14.4	4.3	28		
4	46.3	10.8	2.9	29		
5	45.9	11.6	4.4	30		
6	46.4	9.5	3.0	31		
7	42.6	9.3	3.4	32		
8	44.0	8.4	3.0	33		
9	45.5	10.8	2.7	34		
10	44.4	12.8	3.9	35		
11	44.3	10.6	3.4	36		
12	43.6	11.7	3.7	37		
13	43.1	10.3	2.8	38		
14	43.3	9.4	3.1	39		
15	41.2	8.7	2.3	40		
16	~~44.0~~			41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition. Some mussels had barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6|15|13
STATION NUMBER: SW-25
LATITUDE: N 51.85459
SAMPLE ID: SW25-061513

SITE: Sweeper Cove
TIME: Collected 2110, Processed 6/16 @ 0910
SAMPLER: T. Abbott, J. Highstone
LONGITUDE: W 176.62973
TOTAL WET WEIGHT: 58.4 g

#	Length (mm)	Weight (g) Total	Weight (g) Tissue	#	Length (mm)	Weight (g)
1	50.5	15.7	5.8	26		
2	47.4	13.7	4.9	27		
3	44.5	10.7	4.3	28		
4	43.3	12.0	5.3	29		
5	43.8	12.7	3.5	30		
6	45.1	10.9	4.2	31		
7	41.2	10.8	3.7	32		
8	42.4	8.9	4.3	33		
9	42.0	10.2	2.0	34		
10	41.7	9.4	3.7	35		
11	39.6	9.2	2.7	36		
12	41.7	8.2	3.4	37		
13	40.5	9.2	3.0	38		
14	37.8	8.6	2.8	39		
15	38.6	10.0	~~2.0~~ ASV	40	4.8	
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS:

Jar 177.1
192.4 SW-26
232.7 SW-27

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6/15/13
STATION NUMBER: SW26/27
LATITUDE: 26- N 51.85360
27- N 51.85097
SAMPLE ID: SW26/27-061513

SITE: Sweeper Cove
TIME: Collected 2130, Processed 6/16 @ 0940
SAMPLER: T. Abbott, J. Highstone
LONGITUDE: 26- W 176.64059
27- W 176.64197
TOTAL WET WEIGHT: 55.7 g

SW-26 #	Length (mm)	Weight Total (g)	Weight Tissue	SW-27 #	Length (mm)	Weight Total (g)	Weight Tissue
1	49.5	15.4	3.4	~~26~~ 1	50.0	13.6	4.0
2	46.0	13.9	3.7	~~27~~ 2	48.8	15.2	2.9
3	47.9	13.1	3.2	~~28~~ 3	46.0	11.9	2.7
4	47.4	14.6	3.7	~~29~~ 4	46.2	12.1	4.7
5	44.4	11.7	3.0	~~30~~ 5	49.0	14.4	3.5
6	44.4	10.4	2.7	~~31~~ 6	44.6	12.6	3.2
7	43.2	11.3	3.3	~~32~~ 7	47.5	13.6	4.3
8	41.5	9.9	3.4	~~33~~ 8	45.5	13.1	4.0
9			26.4	34			29.3
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

COMMENTS: Sample is a composite of 8 mussels each from locations SW-26 and SW-27

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-11-13
STATION NUMBER: SW-28
LATITUDE: 51.85028 N
SAMPLE ID: SW28-061113

SITE: SWEEPER COVE
TIME: 1352 PROCESSED, 1038 collected
SAMPLER: T. ABBOTT, J. Highstone
LONGITUDE: 176.65504 W
TOTAL WET WEIGHT: 113.6 grams

#	Length (mm)	Weight ~~SHELL~~ (g)	TB	#	Length (mm)	Weight (g)
1	58.3	23.2	8.8	26		
2	57.5	30.2	9.1	27		
3	65.5	29.8	10.4	28		
4	62.0	30.6	8.0	29		
5	65.1	29.0	8.5	30		
6	66.6	30.2	10.4	31		
7	61.0	26.3	9.9	32		
8	57.7	24.7	8.8	33		
9	56.3	16.8	6.3	34		
10	56.1	19.1	7.6	35		
11	54.2	16.0	6.03 ~~3.8~~	36		
12	50.9 ~~50.8~~	19.8	5.8	37		
13	45.4	13.2	4.3	38		
14	48.5	14.6	5.7	39		
15	46.8	13.4	4.0	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition. Some mussels have barnacles on shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-11-13
STATION NUMBER: SW-28 (Duplicate)
LATITUDE: 51.85028 N
SAMPLE ID: SW28DUP-061113

SITE: Sweeper Cove
TIME: 1455 processed 1038 sampled
SAMPLER: Tom Abbott, John Highstone
LONGITUDE: 176.65504 W
TOTAL WET WEIGHT: 110.2 grams

#	Length (mm)	Weight shell (g)	Weight tissue	#	Length (mm)	Weight (g)
1	62.4	29.6	7.3	26		
2	59.4	32.7	8.9	27		
3	60.1	26.9	7.2	28		
4	61.4	31.5	6.2	29		
5	57.5	21.6	6.0	30		
6	62.7	28.5	11.0	31		
7	57.2	24.8	8.0	32		
8	60.3	26.1	6.9	33		
9	57.9	25.5	8.0	34		
10	55.0	21.4	8.5	35		
11	53.8	23.7	6.4	36		
12	51.9	17.4	5.2	37		
13	52.0	21.1	8.6	38		
14	49.9	21.6	6.2	39		
15	47.4	14.4	5.8	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition, Some mussels have barnacles on ~~their~~ shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-11-13
STATION NUMBER: SW-31
LATITUDE: 51.86151 N
SAMPLE ID: SW31-061113

SITE: Sweeper Cove
TIME: 1135 sampled 1705 processed
SAMPLER: T. Abbott, J. Highstone
LONGITUDE: 176.64040 W
TOTAL WET WEIGHT: 51.9 grams

#	Length (mm)	Weight shell (g)		#	Length (mm)	Weight (g)
1	53.5	17.9	4.0	26		
2	55.0	19.6	5.2	27		
3	50.4	17.3	2.9	28		
4	51.4	16.7	5.0	29		
5	45.6	12.4	3.3	30		
6	46.9	13.7	5.0	31		
7	45.7	12.3	2.4	32		
8	47.7	13.6	2.9	33		
9	48.0	12.2	3.0	34		
10	~~46.5~~	~~6.3~~	~~empty~~	35		
11	48.1	11.6	2.6	36		
12	46.6	12.3	3.4	37		
13	42.5	9.2	3.0	38		
14	41.0	9.6	2.3	39		
15	42.2	12.0	2.2	40		
16	43.2	9.4	2.4	41		
17	39.7	8.6	2.3	42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition, except for mussel #10 which was empty. Some mussels have barnacles on shell,

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6-11-13
STATION NUMBER: SW-102
LATITUDE: 51.85900 N
SAMPLE ID: SW102-061113

SITE: Sweeper Cove
TIME: ~~1610~~ processed 1610 1115 sampled
SAMPLER: Tom Abbott, John Highstone
LONGITUDE: 176.65300 W
TOTAL WET WEIGHT: 113.6 grams

#	Length (mm)	Weight shell (g)	Weight tissue	#	Length (mm)	Weight (g)
1	60.7	30.3	7.8	26		
2	57.3	26.2	7.2	27		
3	59.3	29.7	8.5	28		
4	58.9	31.4	8.7	29		
5	56.5	24.0	8.5	30		
6	50.5	25.1	9.1	31		
7	58.0	28.2	7.2	32		
8	57.7	26.3	8.0	33		
9	55.2	25.4	7.1	34		
10	54.0	25.2	8.0	35		
11	54.1	28.5	6.9	36		
12	52.4	22.9	6.8	37		
13	53.7	20.3	4.8	38		
14	54.0	23.9	8.5	39		
15	55.1	22.8	6.5	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition. Some mussels have barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6/11/13
STATION NUMBER: KB-01
LATITUDE: 51.86341 N
SAMPLE ID: KB01-061113

SITE: Kuluk Bay
TIME: 1815 processed 1155 sampled
SAMPLER: Tom Abbott, John Highstone
LONGITUDE: 176.62950 W
TOTAL WET WEIGHT: 50.6 grams

#	Length (mm)	Weight Shell (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	47.5	13.1	3.8	26		
2	44.1	12.3	3.5	27		
3	41.3	9.7	3.6	28		
4	43.1	9.6	3.1	29		
5	42.4	9.5	3.3	30		
6	41.4	9.4	2.6	31		
7	41.7	9.3	3.0	32		
8	40.2	8.7	2.9	33		
9	39.2	8.2	2.8	34		
10	39.7	8.2	2.5	35		
11	35.6	6.3	2.7	36		
12	37.5	7.4	2.5	37		
13	35.8	7.0	2.0	38		
14	35.6	7.4	1.9	39		
15	34.9	6.1	1.6	40		
16	36.8	6.9	2.5	41		
17	36.8	7.0	2.5	42		
18	35.0	5.3	2.0	43		
19	37.5	5.3	1.8	44		
20	~~33.2~~	~~6.4~~		45		
21	~~31.4~~	~~5.1~~		46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: All mussels appear to be in good condition. Some mussels have barnacles on their shell.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6/15/13
STATION NUMBER: KB-ALT02
LATITUDE: N 51.86733
SAMPLE ID: KBALT02-061513

SITE: Kuluk Bay
TIME: Collected 2221, Processed 6/16 @ 0814
SAMPLER: T. Abbott, J. Highstone
LONGITUDE: W 176.62669
TOTAL WET WEIGHT: 52.1 g

#	Length (mm)	Weight (g) Total	Weight (g) Tissue	#	Length (mm)	Weight (g)
1	49.0	19.9	5.4	26		
2	43.5	16.2	3.3	27		
3	45.3	13.3	3.8	28		
4	43.2	11.1	2.8	29		
5	42.0	10.8	2.8	30		
6	42.8	9.5	2.0	31		
7	48.2	8.2	1.7	32		
8	44.0	12.2	3.1	33		
9	39.9	10.0	2.1	34		
10	39.4	8.7	2.6	35		
11	42.6	13.0	2.8	36		
12	43.6	10.3	2.5	37		
13	42.3	11.0	1.5	38		
14	41.3	12.0	2.9	39		
15	40.7	8.3	1.7	40		
16	43.8	11.2	3.0	41		
17	38.4	7.7	2.1	42		
18	39.4	8.2	1.7	43		
19	37.6	7.2	2.1	44		
20	39.6	8.4	2.2	45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS: 15 mussels only 41.0 g so added 5 additional mussels to get minimum of 50 g required for tissue analysis.

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6/15/13
STATION NUMBER: KB-Alt3
LATITUDE: N 51.87949
SAMPLE ID: KBALT03-061513

SITE: Kuluk Bay
TIME: Collected 2147, Processed 6/16 @ 0745
SAMPLER: T. Abbott, J. Highstone
LONGITUDE: W 176.62788
TOTAL WET WEIGHT: 54.2 g

	#	Length (mm)	Weight (g) Total	Weight (g) Tissue	#	Length (mm)	Weight (g)
	1	53.9	14.6	5.0	26		
	2	51.4	15.0	3.6	27		
	3	46.0	12.1	2.5	28		
	4	51.6	13.8	3.4	29		
	5	44.5	12.4	2.0	30		
	6	45.0	12.5	2.8	31		
22.5	7	45.3	8.9	3.2	32		
	8	45.7	12.1	2.2	33		
	9	46.6	11.4	2.7	34		
	10	43.8	13.6	3.7	35		
	11	46.2	11.9	2.5	36		
	12	45.2	13.8	3.6	37		
	13	44.3	11.4	3.2	38		
	14	47.9	12.6	3.0	39		
45.4	15	47.1	12.6	2.0	40		
	16	45.3	11.4	3.0	41		
	17	42.2	12.2	2.9	42		
	18	43.1	11.2	2.9	43		
	19				44		
	20				45		
	21				46		
	22				47		
	23				48		
	24				49		
	25				50		

COMMENTS: 15 mussels only 45.4 g so added 3 additional mussels to obtain minimum 50g for tissue analysis

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6/15/13
STATION NUMBER: KB-04
LATITUDE: N 51.88984
SAMPLE ID: KB04-061513

SITE: Kuluk Bay
TIME: Collected 2128, Processed 6/16 @ 0017
SAMPLER: T. Abbott, J. Arkstone
LONGITUDE: W 176.62517
TOTAL WET WEIGHT: 67.3 g.

#	Length (mm)	Weight Total (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	50.5	17.0	4.2	26		
2	56.0	21.4	6.4	27		
3	55.3	19.5	5.0	28		
4	53.3	16.3	4.3	29		
5	53.7	24.1	6.8	30		
6	52.1	16.5	5.2	31		
7	47.0	15.3	5.2	32		
8	46.7	14.9	4.7	33		
9	46.0	15.6	4.1	34		
10	45.1	9.8	3.1	35		
11	44.4	12.5	4.0	36		
12	43.9	10.7	2.3	37		
13	44.8	12.4	4.0	38		
14	46.0	13.3	2.9	39		
15	49.3	17.0	5.1	40		
16				41		
17				42		
18				43		
19				44		
20				45		
21				46		
22				47		
23				48		
24				49		
25				50		

COMMENTS:

URS

BLUE MUSSEL SUMMARY FORM

PROJECT: ADAK MARINE LTM
DATE: 6/15/13
STATION NUMBER: KB-05
LATITUDE: N 51.90392
SAMPLE ID: KB05-061513

SITE: Kuluk Bay
TIME: Collected 2100, Processed 2343
SAMPLER: T. Abbott, J. Highstone
LONGITUDE: W 176.61345
TOTAL WET WEIGHT: 53.7 g

#	Length (mm)	Weight Total (g)	Weight Tissue	#	Length (mm)	Weight (g)
1	46.5	15.2	4.3	26		
2	46.2	13.5	3.0	27		
3	47.4	13.6	4.4	28		
4	44.3	10.4	3.4	29		
5	43.5	9.7	2.7	30		
6	43.0	9.2	2.7	31		
7	42.1	8.3	2.0	32		
8	40.5	8.9	1.9	33		
9	42.7	9.4	2.9	34		
10	41.8	10.0	1.6	35		
11	41.6	8.6	2.1	36		
12	41.4	7.7	1.3	37		
13	41.7	9.6	1.7	38		
14	39.8	9.2	2.0	39		
15	37.7	8.6	2.2	40		
16	37.6	9.7	2.5	41		
17	~~48.3~~ 38.3	9.0	2.2	42		
18	~~49.3~~ 39.3	7.1	2.1	43		
19	~~4~~35.9	7.3	2.2	44		
20	42.0	9.8	2.7	45		
21	35.7	8.1	1.7	46		
22	38.3	7.0	2.1	47		
23				48		
24				49		
25				50		

38.2

COMMENTS: 15 mussels only 38.2 g so added 7 additional mussels to obtain minimum of 50 g of tissue for analysis.

Attachment 1.03

Rock Sole Collection Forms – 2013 Adak Monitoring

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6/10/13
TIME: 1938
SAMPLER: Tom ABBOTT, JOHN HIGHSTONE
STATION NUMBER: Sweeper Cove collected 6/10/13
SAMPLE NUMBER: SW201-061013
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	FEMALE	402 mm	707 GMS	15 GMS	
2	FEMALE	404 mm	742 GMS	15 GMS	
3	FEMALE	396 mm	651 GMS	15 GMS	
4	FEMALE	353 ~~[illegible]~~ mm	530 GMS	15 GMS	
5	FEMALE	~~[illegible]~~ 345 mm	574 GMS	15 GMS	
6					
7					
8					
9					
10					

Comments:

Total ~~35~~ 75 g fillet

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-10-13
TIME: 2045
SAMPLER: Tom ABBOTT, J. HIGHSTONE
STATION NUMBER: sweeper Cove collected 6/10/13
SAMPLE NUMBER: SW202-061013
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	FEMALE	379 mm	567 GMS	14.7 GMS	
2	FEMALE	364 mm	577 GMS	15.0 GMS	
3	FEMALE	380 mm	679 GMS	14.9 GMS	
4	FEMALE	372 mm	586 GMS	14.9 GMS	
5	FEMALE	364 mm	1065 GMS	16.0 GMS	
6					
7					
8					
9					
10					

Comments: total 75.5 g Fillet

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-10-13
TIME: 2135
SAMPLER: Tom Abbott, John Highstone
STATION NUMBER: Sweeper Cove, Collected 6/10/13
SAMPLE NUMBER: SW203-061013
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	Female	344	490	15.3	
2	Male	348	402	15.0	
3	Male	342	460	15.4	
4	Female	325	346	15.2	
5	Female	317	344	15.2	
6					
7					
8					
9					
10					

Comments: Total 76.1 g fillet

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-11-13
TIME: 0720
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: Sweeper Cove, collected 6/10/13
SAMPLE NUMBER: SW204-061113
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	MALE	300 mm	288 GMS	15.0GMS	
2	MALE	300 mm	273 GMS	15.1GMS	
3	FEMALE	385 mm	552 GMS	15.0GMS	
4	MALE	321 mm	363 GMS	15.2GMS	
5	MALE	319 mm	415 GMS	15.2GMS	
6					
7					
8					
9					
10					

Comments: Total 75.5 g fillet

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6 - 11 - 13
TIME: 0748
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: Sweeper Cove, collected 6/10/13
SAMPLE NUMBER: SW205 - 061113
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	FEMALE	364 mm	536 GMS	15.2 GMS	
2	FEMALE	362 mm	562 GMS	15.0 GMS	
3	MALE	310 mm	366 GMS	14.9 GMS	
4	FEMALE	316 mm	333 GMS	15.0 GMS	
5	MALE	331 mm	355 GMS	15.2 GMS	
6					
7					
8					
9					
10					

Total 75.3 g fillet

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-11-13
TIME: 0813
SAMPLER: Tom Abbott, John Highstone
STATION NUMBER: Sweeper Cove, collected 6/10/13
SAMPLE NUMBER: SW206-061113
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	Male	300	234	15.0	
2	Female	300	313	15.1	
3	Male	294	277	15.1	
4	Male	310	322	15.2	
5	Female	298	280	15.2	
6					
7					
8					
9					
10					

Total 75.6 g fillet

Comments:

Sample cancelled - not required TA 6/18/13

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-12-13
TIME: 1634
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: Kuluk Bay
SAMPLE NUMBER: KB201-061213
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Fillet	Comments
1	FEMALE	367	572	15.0	
2	FEMALE	356	541	15.0	
3	FEMALE	366	550	15.3	
4	FEMALE	358	531	15.0	
5	FEMALE	314	397	15.0	
6					
7					
8					
9					
10					

Comments: Total 75.2 g fillet

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-12-13
TIME: 1656
SAMPLER: T. ABOTT, J. HIGHSTONE
STATION NUMBER: Kulak Bay
SAMPLE NUMBER: KB202 - 061213
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Fillet	Comments
1	FEMALE	344	514	15.0	
2	FEMALE	332	445	15.0	
3	FEMALE	340	467	15.2	
4	MALE	319	411	15.1	
5	FEMALE	327	395	15.2	
6					
7					
8					
9					
10					

Total 75.5 g fillet

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-12-13
TIME: 1728
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: Kuluk Bay
SAMPLE NUMBER: KB203-061213
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Fillet	Comments
1	FEMALE	344	442	15.2	
2	FEMALE	326	388	15.0	
3	FEMALE	333	461	15.1	
4	FEMALE	336	380	15.0	
5	MALE	322	344	15.2	
6					
7					
8					
9					
10					
			Total	75.5 g fillet	

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-12-13
TIME: 1753
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: Kuluk Bay
SAMPLE NUMBER: KB204-061213
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Fillet	Comments
1	FEMALE	313	386	15.3	
2	Female	~~393~~ 317	393	15.0	
3	Female	320	388	15.2	
4	Male	329	403	15.1	
5	Male	317	302	15.2	
6					
7					
8					
9					
10					
			Total	75.8 g fillet	

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 06/12/13
TIME: 1820
SAMPLER: T. Abbott, J. Highstone
STATION NUMBER: Kulak Bay
SAMPLE NUMBER: KB205-061213
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Fillet	Comments
1	Male	311	367	15.1	
2	Male	309	309	15.1	
3	Male	317	375	15.1	
4	Male	313	336	15.0	
5		309	326	15.1	
6					
7					
8					
9					
10					

Total 75.4 g fillet

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-14-13
TIME: 1640
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: BAY OF ISLANDS
SAMPLE NUMBER: BI201-06 1413
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) fillet	Comments
1	FEMALE	375	665	15.0	
2	FEMALE	361	605	15.1	
3	FEMALE	366	613	15.0	
4	FEMALE	363	572	14.4	
5	FEMALE	368	537	15.1	
6					
7					
8					
9					
10					

Total 75.1 g fillet

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-14-13
TIME: 1655
SAMPLER: T. Abbott, J. Highstone
STATION NUMBER: Bay of Islands
SAMPLE NUMBER: BI202-061413
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Tissue
1	Female	406	737	15.1
2	Female	343	466	15.1
3	Female	330	397	15.2
4	Female	343	481	15.3
5	Female	~~487~~ 334	416	15.0
6				
7				
8				
9				
10				

Total 75.7 g fillet

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-14-13
TIME: 1728
SAMPLER: T. ABBOTT, J. HIGHSTONE
STATION NUMBER: BAY OF ISLANDS
SAMPLE NUMBER: BI203 · 061413
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Tissue	Comments
1	FEMALE	332	423	15.0	
2	Female	333	439	15.0	
3	Female	313	344	14.9	
4	Female	316	360	14.9	
5	Female	321	330	15.0	
6					
7					
8					
9					
10					

Total 74.8 g fillet

Comments:

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6-14-13
TIME: 1743
SAMPLER: T. Abbott, J. Highstone
STATION NUMBER: Bay of Islands
SAMPLE NUMBER: BI-204-061413
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Fillet	Comments
1	Male	304	282	15.0	
2	Female	306	313	15.1	
3	Male	307	270	15.1	
4	Female	314	367	15.2	
5	Female	308	307	15.2	
6					
7					
8					
9					
10					

Comments: Total 75.6 g fillet

URS

ROCK SOLE MEASURING FORM

PROJECT: ADAK MARINE LTM
DATE: 6/14/13
TIME: 1810
SAMPLER: T. Abbott, J. Highstone
STATION NUMBER: Bay of Islands
SAMPLE NUMBER: BI-205-061413
SAMPLING EQUIPMENT: Otter Trawl

#	Sex	Length (mm)	Weight (g) Total	Weight (g) Tissue	Comments
1	Female	306	323	15.1	
2	Female	312	328	15.0	
3	Female	301	286	14.9	
4	Female	303	295	14.9	
5	Male	300	255	15.0	
6					
7					
8					
9					
10					

Total 74.9 g tissue

Comments:

Attachment 1.04

Chain-of-Custody Forms for Sample Shipping

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: Sealaska	Project Manager: Jim Ruef	Date: 6-16-13	Chain of Custody Number: 205787
Address: Marine Science Center 18743 Front St NE, Suite 201	Telephone Number (Area Code)/Fax Number: 206.930.9623	Lab Number: 916.374.4383	Page 1 of 3
City: Poulsbo, WA; State: WA; Zip Code: 98370	Site Contact: 425.281.8323 Tom Abbott	Lab Contact: David Alltucker	
Project Name and Location (State): 2013 Adak Marine Monitoring Alaska	Carrier/Waybill Number: TBD		
Contract/Purchase Order/Quote No.: PO-00624			

Analysis (Attach list if more space is needed): 1668A PCBs

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	TIF	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	1668A PCBs	Special instructions/ Conditions of Receipt
SW201-061013 1 foil	6-10-13	1938					X	1						X	
SW202-061013 1 foil	6-10-13	2045					X	1						X	
SW203-061013 1 foil	6-10-13	2135					X	1						X	
SW204-061113 1 foil	6-11-13	0720					X	1						X	
SW205-061113 1 foil	6-11-13	0748					X	1						X	
SW206-061113 1 foil	6-11-13	0813					X	1						X	Cancelled, not required TA 6-17-13
KB201-061213 1 foil	6-12-13	1634					X	1						X	
KB202-061213 1 foil	6-12-13	1656					X	1						X	
KB203-061213 1 foil	6-12-13	1728					X	1						X	
KB204-061213 1 foil	6-12-13	1753					X	1						X	
KB205-061213 1 foil	6-12-13	1820					X	1						X	
BI201-061413 1 foil	6-14-13	1640					X	1						X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 30 days

QC Requirements (Specify)

	Date	Time		Date	Time
1 Relinquished By: Jim Ruef	6-16-13	1445	1. Received By		
2 Relinquished By			2. Received By		
3 Relinquished By			3. Received By		

Comments: TIF - Tissue, fish. Lab: Generate one rinsate blank for fish tissue and one rinsate blank for mussel tissue during homogenization.

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Sealaska	Jim Ruef	6-16-13	205788
Address: Marine Science Center, 18743 Front St NE, Suite 201	Telephone Number (Area Code)/Fax Number: 206.930.9623	Lab Number: 916.374.4383	Page 2 of 3
City: Poulsbo; State: WA; Zip Code: 98370	Site Contact: 425.281.8323 Tom Abbott	Lab Contact: David Alltucker	
Project Name and Location (State): 2013 Adak Marine Monitoring, Alaska	Carrier/Waybill Number: TBD		
Contract/Purchase Order/Quote No.: PO-00624			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil/ TIF	TIM	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		Analysis (Attach list if more space is needed): PCB 8082A	Special Instructions/ Conditions of Receipt
BI202-061413 1 foil	6-14-13	1655				X		1							X	
BI203-061413 1 foil	6-14-13	1728				X		1							X	
BI204-061413 1 foil	6-14-13	1743				X		1							X	
BI205-061413 1 foil	6-14-13	1810				X		1							X	
BI101-061313 1 8-oz	6-13-13	1623					X	1							X	
BI102-061313 1 8-oz	6-13-13	1455					X	1							X	
BI103-061313 1 8-oz	6-13-13	1414					X	1							X	
BI104-061313 1 8-oz	6-13-13	1120					X	1							X	
BI105-061313 1 8-oz	6-13-13	1220					X	1							X	
SW25-061513 1 8-oz	6-15-13	2110					X	1							X	
SW26/27-061513 1 8-oz	6-15-13	2130					X	1							X	
SW28-061113 1 8-oz	6-11-13	1038					X	1							X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 30 days

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
Tom Abbott	6-16-13	1445			
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: TIF - Tissue, fish
TIM Tissue, mussel
Lab: Generate one rinsate blank for fish tissue and one rinsate blank for mussel tissue during homogenization.

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Sealaska	Project Manager: Jim Ruef	Date: 6-16-13	Chain of Custody Number: 205731
Address: Marine Science Center 18743 Front St NE, Suite 201	Telephone Number (Area Code)/Fax Number: 206.930.9623	Lab Number: 916.374.4383	Page 3 of 3
City: Poulsbo; State: WA; Zip Code: 98370	Site Contact: Tom Abbott 425.781 8323	Lab Contact: David Alltucker	
Project Name and Location (State): 2013 Adak Marine Monitoring, Alaska	Carrier/Waybill Number: TBD		
Contract/Purchase Order/Quote No.: PO-00624			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Matrix: Air	Aqueous	Sed.	Soil	TIM	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): PCBs 1668A											Special Instructions/ Conditions of Receipt
SW28DUP-061113	1 8-oz	6-11-13	1038					X	1							X											
SW31-061113	1 8-oz	6-11-13	1135					X	1							X											
SW102-061113	1 8-oz	6-11-13	1115					X	1							X											
KB01-061113	1 8-oz	6-11-13	1155					X	1							X											
KBALT02-061513	1 8-oz	6-15-13	2221					X	1							X											
KBALT03-061513	1 8-oz	6-15-13	2147					X	1							X											
KB04-061513	1 8-oz	6-15-13	2128					X	1							X											
KB05-061513	1 8-oz	6-15-13	2100					X	1							X											

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 6 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 30 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Tom Abbott	6-16-13	1445	1. Received By		
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: TIM-Tissue, mussel Lab: Generate one rinsate blank for fish tissue and one rinsate blank for mussel tissue during homogenization.

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

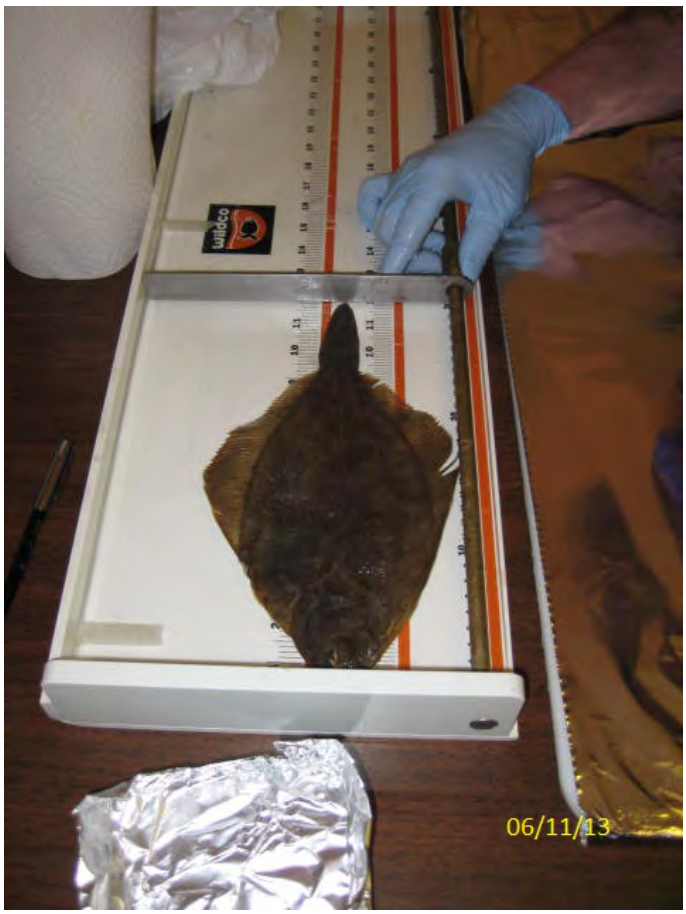
Attachment 1.05

Photograph Log – 2013 Adak Marine Monitoring

Photograph 1. Pulling the trawl net into the vessel during the rock sole sampling

Photograph 2. Contents of the trawl net during rock sole sampling

Photograph 3. Navigation mapping system display on board the fishing vessel



Photograph 4. Measuring the length of a rock sole

Photograph 5. Eyed side or dark side of rock sole

Photograph 6. Underside, white side, or blind side of rock sole

Photograph 7. Filleting rock sole

Photograph 8. Mussel location BI-101

Photograph 9. Mussel sampling location BI-102

Photograph 10. Collecting mussels at sampling location BI-103

Photograph 11. Mussel sampling location BI-104

Photograph 12. Mussel sampling location BI-105

Photograph 13. Mussel sampling location SW-28

Photograph 14. Mussel sampling location SW-102

Photograph 15. Mussel sampling location SW-25

Photograph 16. Mussel sampling location SW-26

Photograph 17. Mussel sampling location SW-27

Photograph 18. Mussel sampling location SW-31

Photograph 19. Mussel sampling location KB-01

Photograph 20. Mussel sampling location KB-ALT02

Photograph 21. Mussel sampling location KB-ALT03

Photograph 22. Mussel sampling location KB-04

Photograph 23. Mussel sampling location KB-05

Photograph 24. Measuring shell length of a blue mussel

Photograph 25. Opening blue mussel shell to remove soft tissue for analysis

Attachment 1.06

Data Validation Report

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L, Carlsbad, CA 92009 Bus: 760/634-0437 Fax: 760/634-0439

Sealaska Environmental Services
PO BOX 869
Marine Science Center, 2nd Floor
18743 Front Street NE
Poulsbo, WA 98370
ATTN: Ms. Sherri Wunderlich

August 8, 2013

SUBJECT: ADAK LTM 2013, Data Validation

Dear Ms. Wunderlich,

Enclosed is the final validation report for the fraction listed below with form 1s. This SDG was received on July 18, 2013. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 30061:

SDG #	**Fraction**
320-3015-1	Polychlorinated Biphenyls as Congeners

The data validation was performed under EPA Level IV guidelines. The analyses were validated using the following documents, as applicable to each method:

- EPA Region 10 SOP for the Validation of Method 1668 Toxic, Dioxin Like PCB Data , December 1995

Please feel free to contact us if you have any questions.

Sincerely,

Ming-Hwa Hwang
Project Manager/Senior Chemist

Attachment 1

Level IV

LDC #30061 (Sealaska-Poulsbo, WA / Adak LTM 2013)

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCB Cong (1668A)																																			
Matrix:	Water/Tissue			W	T	W	T	W	T	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	320-3015-1	07/18/13	08/08/13	2	31																																		
Total	A/MH			2	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not inclute MS/MSD, and DUPs

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Adak LTM 2013

Collection Date: June 10 through June 17, 2013

LDC Report Date: August 12, 2013

Matrix: Tissue/Water

Parameters: Polychlorinated Biphenyls as Congeners

Validation Level: EPA Level IV

Laboratory: TestAmerica, Inc.

Sample Delivery Group (SDG): 320-3015-1

SW201-061013	SW25-061513
SW202-061013	SW26/27-061513
SW203-061013	SW28-061113
SW204-061113	SW28DUP-061113
SW205-061113	SW31-061113
KB201-061213	SW102-061113
KB202-061213	KB01-061113
KB203-061213	KBALT02-061513
KB204-061213	KBALT03-061513
KB205-061213	KB04-061513
BI201-061413	KB05-061513
BI202-061413	FISH HOMOGINATION BLANK
BI203-061413	MUSSEL HOMOGINATION BLANK
BI204-061413	
BI205-061413	
BI101-061313	
BI102-061313	
BI103-061313	
BI104-061313	
BI105-061313	

Introduction

This data review covers 31 tissue samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyl as Congeners.

This review follows EPA Region 10 SOP for the Validation of Method 1668 Toxic, Dioxin Like PCB Data (December 1995).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

The static resolving power was at least 10,000 (10% valley definition).

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl as congener contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
MB 19068	6/22/13	PCB-11	8.59 pg/g	SW201-061013
		PCB-21/33	0.356 pg/g	SW202-061013
		PCB-31	0.555 pg/g	SW203-061013
		PCB-40/71	0.171 pg/g	SW204-061113
		PCB-44/47/65	0.692 pg/g	SW205-061113
		PCB-49/69	0.221 pg/g	KB201-061213
		PCB-52	0.627 pg/g	KB202-061213
		PCB-61/70/74/76	0.741 pg/g	KB203-061213
		PCB-64	0.123 pg/g	KB204-061213
		PCB-66	0.387 pg/g	KB205-061213
		PCB-86/87/97/108/119/125	0.386 pg/g	BI201-061413
		PCB-90/101/113	0.552 pg/g	BI202-061413
		PCB-95	0.341 pg/g	BI203-061413
		PCB-105	0.249 pg/g	BI204-061413
		PCB-110/115	0.601 pg/g	BI205-061413
		PCB-129/138/163	0.747 pg/g	
		PCB-132	0.237 pg/g	
		PCB-153/168	0.573 pg/g	
		PCB-209	0.170 pg/g	
		Total Dichlorobiphenyls	8.59 pg/g	
		Total Trichlorobiphenyls	1.95 pg/g	
		Total Tetrachlorobiphenyls	3.11 pg/g	
		Total Pentachlorobiphenyls	2.92 pg/g	
		Total Hexachlorobiphenyls	1.91 pg/g	
		Total Heptachlorobiphenyls	0.600 pg/g	
MB 19244	6/25/13	PCB-16	0.302 pg/g	BI101-061313
		PCB-31	0.885 pg/g	BI102-061313
		PCB-32	0.118 pg/g	BI103-061313
		PCB-49/69	0.289 pg/g	BI104-061313
		PCB-50/53	0.110 pg/g	BI105-061313
		PCB-52	0.679 pg/g	SW25-061513
		PCB-64	0.159 pg/g	SW26/27-061513
		PCB-90/101/113	0.362 pg/g	SW28-061113
		PCB-118	0.411 pg/g	SW28DUP-061113
		PCB-129/138/163	0.501 pg/g	SW31-061113
		PCB-147/149	0.382 pg/g	SW102-061113
		Total Trichlorobiphenyls	2.90 pg/g	KB01-061113
		Total Tetrachlorobiphenyls	2.73 pg/g	KBALT02-061513
		Total Pentachlorobiphenyls	1.56 pg/g	KBALT03-061513
		Total Hexachlorobiphenyls	1.27 pg/g	KB04-061513
				KB05-061513
MB 19001	6/21/13	PCB-18/30	1.02 pg/L	All water samples in SDG 320-3015-1
		PCB-44/47/65	3.00 pg/L	
		PCB-49/69	0.495 pg/L	
		PCB-66	0.668 pg/L	
		PCB-129/138/163	1.33 pg/L	
		Total Trichlorobiphenyls	2.94 pg/L	
		Total Tetrachlorobiphenyls	6.77 pg/L	

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SW201-061013	PCB-11 PCB-21/33 Total Dichlorobiphenyls	5.0 pg/g 1.4 pg/g 5.0 pg/g	5.0U pg/g 1.4U pg/g 5.0U pg/g
SW202-061013	PCB-11 PCB-21/33 Total Dichlorobiphenyls	3.7 pg/g 1.3 pg/g 3.7 pg/g	3.7U pg/g 1.3U pg/g 3.7U pg/g
SW203-061013	PCB-11 PCB-21/33 Total Dichlorobiphenyls	5.0 pg/g 1.3 pg/g 5.0 pg/g	5.0U pg/g 1.3U pg/g 5.0U pg/g
SW205-061113	PCB-11 PCB-21/33 Total Dichlorobiphenyls	4.4 pg/g 1.6 pg/g 4.4 pg/g	4.4U pg/g 1.6U pg/g 4.4U pg/g
KB201-061213	PCB-11 PCB-21/33 Total Dichlorobiphenyls	3.8 pg/g 0.63 pg/g 3.8 pg/g	3.8U pg/g 0.63U pg/g 3.8U pg/g
KB202-061213	PCB-11 PCB-31 PCB-40/71 Total Dichlorobiphenyls	3.6 pg/g 2.7 pg/g 0.23 pg/g 3.6 pg/g	3.6U pg/g 2.7U pg/g 0.23U pg/g 3.6U pg/g
KB203-061213	PCB-21/33 PCB-40/71	0.42 pg/g 0.36 pg/g	0.42U pg/g 0.36U pg/g
KB204-061213	PCB-40/71	0.49 pg/g	0.49U pg/g
KB205-061213	PCB-11 PCB-21/33 PCB-40/71 Total Dichlorobiphenyls	3.9 pg/g 0.51 pg/g 0.32 pg/g 3.9 pg/g	3.9U pg/g 0.51U pg/g 0.32U pg/g 3.9U pg/g
BI201-061413	PCB-21/33 PCB-31 PCB-40/71 PCB-44/47/65 PCB-95 PCB-110/115 PCB-132 Total Trichlorobiphenyls	0.35 pg/g 2.2 pg/g 0.21 pg/g 1.9 pg/g 1.2 pg/g 2.7 pg/g 0.72 pg/g 8.5 pg/g	0.35U pg/g 2.2U pg/g 0.21U pg/g 1.9U pg/g 1.2U pg/g 2.7U pg/g 0.72U pg/g 8.5U pg/g
BI202-061413	PCB-31 PCB-40/71 PCB-44/47/65 PCB-49/69 PCB-52 PCB-64 PCB-86/87/97/108/119/125 PCB-95 PCB-110/115 Total Trichlorobiphenyls	2.3 pg/g 0.28 pg/g 1.9 pg/g 0.94 pg/g 2.8 pg/g 0.58 pg/g 1.7 pg/g 1.3 pg/g 2.4 pg/g 8.8 pg/g	2.3U pg/g 0.28U pg/g 1.9U pg/g 0.94U pg/g 2.8U pg/g 0.58U pg/g 1.7U pg/g 1.3U pg/g 2.4U pg/g 8.8U pg/g

Sample	Compound	Reported Concentration	Modified Final Concentration
BI203-061413	PCB-31 PCB-44/47/65 PCB-49/69 PCB-52 PCB-64 PCB-86/87/97/108/119/125 PCB-95 PCB-110/115 PCB-132 Total Trichlorobiphenyls Total Tetrachlorobiphenyls	1.6 pg/g 1.8 pg/g 1.0 pg/g 3.0 pg/g 0.54 pg/g 1.9 pg/g 1.2 pg/g 2.5 pg/g 0.73 pg/g 6.4 pg/g 15 pg/g	1.6U pg/g 1.8U pg/g 1.0U pg/g 3.0U pg/g 0.54U pg/g 1.9U pg/g 1.2U pg/g 2.5U pg/g 0.73U pg/g 6.4U pg/g 15U pg/g
BI204-061413	PCB-40/71 PCB-44/47/65	0.42 pg/g 3.0 pg/g	0.42U pg/g 3.0U pg/g
BI205-061413	PCB-21/33 PCB-31 PCB-40/71 PCB-44/47/65 PCB-64 PCB-95 PCB-110/115 PCB-132 Total Trichlorobiphenyls	0.37 pg/g 1.7 pg/g 0.22 pg/g 2.0 pg/g 0.58 pg/g 1.1 pg/g 2.7 pg/g 0.90 pg/g 6.8 pg/g	0.37U pg/g 1.7U pg/g 0.22U pg/g 2.0U pg/g 0.58U pg/g 1.1U pg/g 2.7U pg/g 0.90U pg/g 6.8U pg/g
BI101-061313	PCB-31 PCB-32 PCB-50/53 PCB-64	4.4 pg/g 0.34 pg/g 0.42 pg/g 0.80 pg/g	4.4U pg/g 0.34U pg/g 0.42U pg/g 0.80U pg/g
BI102-061313	PCB-16 PCB-31 PCB-32 PCB-49/69 PCB-64	1.1 pg/g 4.1 pg/g 0.29 pg/g 1.4 pg/g 0.61 pg/g	1.1U pg/g 4.1U pg/g 0.29U pg/g 1.4U pg/g 0.61U pg/g
BI103-061313	PCB-16 PCB-50/53	1.3 pg/g 0.48 pg/g	1.3U pg/g 0.48U pg/g
BI104-061313	PCB-16 PCB-31 PCB-32 PCB-49/69 PCB-50/53 PCB-64	1.1 pg/g 3.6 pg/g 0.41 pg/g 1.3 pg/g 0.27 pg/g 0.76 pg/g	1.1U pg/g 3.6U pg/g 0.41U pg/g 1.3U pg/g 0.27U pg/g 0.76U pg/g
BI105-061313	PCB-16 PCB-32 PCB-50/53 PCB-64	1.2 pg/g 0.30 pg/g 0.37 pg/g 0.78 pg/g	1.2U pg/g 0.30U pg/g 0.37U pg/g 0.78U pg/g
KB04-061513	PCB-32	0.28 pg/g	0.28U pg/g
FISH HOMOGINATION BLANK	PCB-18/30 PCB-44/47/65 Total Tetrachlorobiphenyls	2.7 pg/L 6.0 pg/L 17 pg/L	2.7U pg/L 6.0U pg/L 17U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
MUSSEL HOMOGINATION BLANK	PCB-18/30 PCB-44/47/65 PCB-129/138/163 Total Trichlorobiphenyls Total Tetrachlorobiphenyls	3.3 pg/L 6.3 pg/L 5.0 pg/L 14 pg/L 19 pg/L	3.3U pg/L 6.3U pg/L 5.0U pg/L 14U pg/L 19U pg/L

Samples FISH HOMOGINATION BLANK and MUSSEL HOMOGINATION BLANK were identified as rinsate blanks. No polychlorinated biphenyls as congener contaminants were found with the following exceptions:

Blank ID	Sampling Date	Compound	Concentration	Associated Samples
FISH HOMOGINATION BLANK	6/17/13	PCB-16 PCB-17 PCB-18/30 PCB-20/28 PCB-21/33 PCB-22 PCB-31 PCB-32 PCB-44/47/65 PCB-52 PCB-64 PCB-86/87/97/108/119/125 PCB-90/101/113 PCB-95 PCB-110/115 PCB-129/138/163 PCB-147/149 PCB-180/193 PCB-209 Total Trichlorobiphenyls Total Tetrachlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	1.7 pg/L 1.6 pg/L 2.7 pg/L 4.7 pg/L 2.6 pg/L 1.7 pg/L 3.3 pg/L 1.1 pg/L 6.0 pg/L 3.9 pg/L 1.2 pg/L 2.9 pg/L 3.0 pg/L 2.7 pg/L 4.0 pg/L 6.9 pg/L 3.4 pg/L 1.9 pg/L 3.7 pg/L 19 pg/L 17 pg/L 16 pg/L 15 pg/L 5.2 pg/L	SW201-061013 SW202-061013 SW203-061013 SW204-061113 SW205-061113 KB201-061213 KB202-061213 KB203-061213 KB204-061213 KB205-061213 BI201-061413 BI202-061413 BI203-061413 BI204-061413 BI205-061413
MUSSEL HOMOGINATION BLANK	6/17/13	PCB-18/30 PCB-21/33 PCB-31 PCB-44/47/65 PCB-52 PCB-61/70/74/76 PCB-110/115 PCB-129/138/163 PCB-209 Total Trichlorobiphenyls Total Tetrachlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls	3.3 pg/L 2.4 pg/L 4.5 pg/L 6.3 pg/L 4.0 pg/L 5.0 pg/L 5.6 pg/L 5.0 pg/L 3.8 pg/L 14 pg/L 19 pg/L 16 pg/L 12 pg/L	BI101-061313 BI102-061313 BI103-061313 BI104-061313 BI105-061313 SW25-061513 SW26/27-061513 SW28-061113 SW28DUP-061113 SW31-061113 SW102-061113 KB01-061113 KBALT02-061513 KBALT03-061513 KB04-061513 KB05-061513

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries (%R) were within validation criteria with the following exceptions:

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW201-061013	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	248 (25-150) 152 (25-150) 215 (25-150) 154 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW204-061113	^{13}C-PCB-188 ^{13}C-PCB-202	166 (25-150) 157 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls	J (all detects) UJ (all non-detects)	P
KB203-061213	^{13}C-PCB-188	155 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
BI204-061413	^{13}C-PCB-188 ^{13}C-PCB-202	160 (25-150) 156 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
BI101-061313	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	445 (25-150) 189 (25-150) 385 (25-150) 208 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
BI102-061313	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	429 (25-150) 179 (25-150) 358 (25-150) 200 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
BI103-061313	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	442 (25-150) 195 (25-150) 377 (25-150) 211 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
BI104-061313	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208 ^{13}C-PCB-209	508 (25-150) 200 (25-150) 439 (25-150) 209 (25-150) 156 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls PCB-209	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
BI105-061313	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	432 (25-150) 188 (25-150) 346 (25-150) 205 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW25-061513	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	405 (25-150) 192 (25-150) 345 (25-150) 196 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW26/27-061513	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	367 (25-150) 188 (25-150) 293 (25-150) 195 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW28-061113	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	275 (25-150) 169 (25-150) 242 (25-150) 181 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW28DUP-061113	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	254 (25-150) 185 (25-150) 236 (25-150) 178 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW31-061113	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	222 (25-150) 147 (25-150) 187 (25-150) 157 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
SW102-061113	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	226 (25-150) 156 (25-150) 207 (25-150) 165 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
KB01-061113	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	241 (25-150) 154 (25-150) 209 (25-150) 164 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
KBALT02-061513	^{13}C-PCB-188 ^{13}C-PCB-202 ^{13}C-PCB-208	222 (25-150) 196 (25-150) 156 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P
KBALT03-061513	^{13}C-PCB-77 ^{13}C-PCB-126 ^{13}C-PCB-188 ^{13}C-PCB-202	155 (25-150) 160 (25-150) 177 (25-150) 175 (25-150)	PCB-40/71 PCB-41 PCB-42 PCB-43 PCB-44/47/65 PCB-45 PCB-46 PCB-48 PCB-49/69 PCB-50/53 PCB-51 PCB-52 PCB-55 PCB-56 PCB-57 PCB-58 PCB-59/62/75 PCB-60 PCB-61/70/74/76 PCB-63 PCB-64 PCB-66 PCB-67	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
KBALT03-061513 (continued)	^{13}C-PCB-77 ^{13}C-PCB-126 ^{13}C-PCB-188 ^{13}C-PCB-202	155 (25-150) 160 (25-150) 177 (25-150) 175 (25-150)	PCB-68 PCB-72 PCB-73 PCB-77 PCB-78 PCB-79 PCB-80 Total Tetrachlorobiphenyls PCB-82 PCB-83 PCB-84 PCB-85/116/117 PCB-86/87/97/108/119/125 PCB-88/91 PCB-89 PCB-90/101/113 PCB-92 PCB-93/100 PCB-94 PCB-95 PCB-96 PCB-98/102 PCB-103 PCB-106 PCB-107/124 PCB-109 PCB-110/115 PCB-111 PCB-112 PCB-120 PCB-121 PCB-122 PCB-127 Total Pentachlorobiphenyls PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
KB04-061513	^{13}C-PCB-188 ^{13}C-PCB-202	226 (25-150) 194 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls	J (all detects) UJ (all non-detects)	P

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
KB05-061513	^{13}C-PCB-188 ^{13}C-PCB-189 ^{13}C-PCB-202 ^{13}C-PCB-208	293 (25-150) 168 (25-150) 249 (25-150) 169 (25-150)	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P

X. Target Compound Identifications

All target compounds met the identification criteria.

XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG 320-3015-1	Individual PCB congeners reported by the lab as estimated maximum possible concentration (EMPC)	U	A

Sample	Compound	Flag	A or P
SW201-061013 SW202-061013 SW203-061013 SW204-061113 SW205-061113 SW28-061113 SW28DUP-061113 SW102-061113	Results were flagged “E” by the laboratory to indicate sample exceeded calibration range.	J (all detects)	P

Sample	Compound	Reason	Flag	A or P
KB203-061213 KB204-061213 BI201-061413 BI202-061413 BI203-061413 BI204-061413 BI205-061413 BI102-061313 BI104-061313 BI105-061313 SW25-061513 SW102-061113	Total Dichlorobiphenyls	Results were from the estimated maximum possible concentration (EMPC)	U	A
BI103-061313 SW26/27-061513 SW28DUP-061113	Total Dichlorobiphenyls Total Monochlorobiphenyls	Results were from the estimated maximum possible concentration (EMPC)	U	A
KB01-061113 KBALT02-061513 KBALT03-061513	Total Monochlorobiphenyls	Results were from the estimated maximum possible concentration (EMPC)	U	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SW28-061113 and SW28DUP-061113 were identified as field duplicates. No polychlorinated biphenyls as congeners were detected in any of the samples with the following exceptions:

Compound	Concentration (pg/g)		RPD (Limits)
	SW28-061113	SW28DUP-061113	
PCB-103	34	30	13 (≤50)

Compound	Concentration (pg/g)		RPD (Limits)
	SW28-061113	SW28DUP-061113	
PCB-104	0.30	0.28	7 (≤50)
PCB-105	210	190	10 (≤50)
PCB-107/124	24	28	15 (≤50)
PCB-109	73	73	0 (≤50)
PCB-11	7.0	8.6	21 (≤50)
PCB-110/115	880	840	5 (≤50)
PCB-118	910	810	12 (≤50)
PCB-128/166	710	640	10 (≤50)
PCB-129/138/163	12000	11000	9 (≤50)
PCB-130	450	380	17 (≤50)
PCB-131	55	61U	200 (≤50)
PCB-132	2000	1600	22 (≤50)
PCB-133	210	170	21 (≤50)
PCB-134/143	240	57U	200 (≤50)
PCB-135/151	4100	3700	10 (≤50)
PCB-136	880	780	12 (≤50)
PCB-139/140	83	49U	200 (≤50)
PCB-141	230	170	30 (≤50)
PCB-144	550	500	10 (≤50)
PCB-146	2800	2300	20 (≤50)
PCB-147/149	8400	7700	9 (≤50)
PCB-15	3.0	3.0	0 (≤50)
PCB-153/168	15000	13000	14 (≤50)
PCB-154	170	150	13 (≤50)
PCB-156/157	380	330	14 (≤50)
PCB-158	880	740	17 (≤50)

Compound	Concentration (pg/g)		RPD (Limits)
	SW28-061113	SW28DUP-061113	
PCB-16	2.8	2.7	4 (≤50)
PCB-162	110	99	11 (≤50)
PCB-164	220	160	32 (≤50)
PCB-167	350	300	15 (≤50)
PCB-169	2.5U	10	200 (≤50)
PCB-17	2.5	2.6	4 (≤50)
PCB-170	730	630	15 (≤50)
PCB-171/173	1400	1200	15 (≤50)
PCB-172	86	59	37 (≤50)
PCB-174	98	61	47 (≤50)
PCB-175	240	210	13 (≤50)
PCB-176	650	550	17 (≤50)
PCB-177	2700	2400	12 (≤50)
PCB-178	1200	1000	18 (≤50)
PCB-179	2200	1900	15 (≤50)
PCB-18/30	5.3	6.2	16 (≤50)
PCB-180/193	3700	3400	8 (≤50)
PCB-183	3000	2500	18 (≤50)
PCB-187	5800	6000	3 (≤50)
PCB-189	130	110	17 (≤50)
PCB-19	0.72	0.81	12 (≤50)
PCB-190	430	400	7 (≤50)
PCB-191	77	65	17 (≤50)
PCB-194	140	110	24 (≤50)
PCB-195	57	42	30 (≤50)
PCB-196	22	44	67 (≤50)

Compound	Concentration (pg/g)		RPD (Limits)
	SW28-061113	SW28DUP-061113	
PCB-197	98	89	10 (≤50)
PCB-198/199	75	48	44 (≤50)
PCB-2	1.3	0.77	51 (≤50)
PCB-20/28	25	24	4 (≤50)
PCB-201	340	290	16 (≤50)
PCB-202	330	300	10 (≤50)
PCB-203	250	220	13 (≤50)
PCB-205	25	19	27 (≤50)
PCB-206	32	17	61 (≤50)
PCB-207	3.3	2.0	49 (≤50)
PCB-208	6.3	3.4	60 (≤50)
PCB-209	20	11	58 (≤50)
PCB-21/33	7.7	7.7	0 (≤50)
PCB-22	6.0	5.0	18 (≤50)
PCB-24	20U	0.095	200 (≤50)
PCB-25	1.5	1.0	40 (≤50)
PCB-26/29	3.1	3.0	3 (≤50)
PCB-27	0.44	0.49	11 (≤50)
PCB-31	18	16	12 (≤50)
PCB-32	1.5	1.5	0 (≤50)
PCB-37	5.5	5.3	4 (≤50)
PCB-40/71	27	24	12 (≤50)
PCB-41	1.8	1.3	32 (≤50)
PCB-42	7.6	6.7	13 (≤50)
PCB-44/47/65	51	47	8 (≤50)
PCB-45	1.3	1.4	7 (≤50)

Compound	Concentration (pg/g)		RPD (Limits)
	SW28-061113	SW28DUP-061113	
PCB-46	20U	0.90	200 (≤50)
PCB-48	6.0	5.3	12 (≤50)
PCB-49/69	36	29	22 (≤50)
PCB-50/53	6.0	6.0	0 (≤50)
PCB-51	1.1	1.3	17 (≤50)
PCB-52	120	100	18 (≤50)
PCB-56	14	11	24 (≤50)
PCB-58	30	27	11 (≤50)
PCB-59/62/75	3.2	2.7	17 (≤50)
PCB-60	13	11	17 (≤50)
PCB-61/70/74/76	170	140	19 (≤50)
PCB-63	2.8	2.7	4 (≤50)
PCB-64	10	8.2	20 (≤50)
PCB-66	82	72	13 (≤50)
PCB-67	4.5	4.5	0 (≤50)
PCB-77	6.7	7.1	6 (≤50)
PCB-8	2.6	2.8	7 (≤50)
PCB-82	34	25U	200 (≤50)
PCB-83	36	25U	200 (≤50)
PCB-84	67	68	1 (≤50)
PCB-85/116/117	50	51	2 (≤50)
PCB-86/87/97/108/119/125	430	380	12 (≤50)
PCB-88/91	38	29	27 (≤50)
PCB-90/101/113	2100	1900	10 (≤50)
PCB-92	340	310	9 (≤50)
PCB-93/100	120	39U	200 (≤50)

Compound	Concentration (pg/g)		RPD (Limits)
	SW28-061113	SW28DUP-061113	
PCB-95	970	880	10 (≤50)
PCB-96	2.0	2.1	5 (≤50)
PCB-98/102	39U	110	200 (≤50)
PCB-99	760	660	14 (≤50)
Total Dichlorobiphenyls	13	14	7 (≤50)
Total Heptachlorobiphenyls	22000	20000	10 (≤50)
Total Hexachlorobiphenyls	50000	43000	15 (≤50)
Total Monochlorobiphenyls	1.3	0.77	51 (≤50)
Total Nonachlorobiphenyls	42	23	58 (≤50)
Total Octachlorobiphenyls	1300	1200	8 (≤50)
Total Pentachlorobiphenyls	7100	6300	12 (≤50)
Total Tetrachlorobiphenyls	580	520	11 (≤50)
Total Trichlorobiphenyls	79	76	4 (≤50)

Adak LTM 2013
Polychlorinated Biphenyls - Data Qualification Summary - SDG 320-3015-1

SDG	Sample	Compound	Flag	A or P	Reason
320-3015-1	SW201-061013 BI101-061313 BI102-061313 BI103-061313 BI105-061313 SW25-061513 SW26/27-061513 SW28-061113 SW28DUP-061113 SW31-061113 SW102-061113 KB01-061113 KB05-061513	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

SDG	Sample	Compound	Flag	A or P	Reason
320-3015-1	SW204-061113 BI204-061413 KB04-061513	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)
320-3015-1	KB203-061213	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

SDG	Sample	Compound	Flag	A or P	Reason
320-3015-1	BI104-061313	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-189 PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls PCB-209	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

SDG	Sample	Compound	Flag	A or P	Reason
320-3015-1	KBALT02-061513	PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls PCB-207 PCB-208 Total Nonachlorobiphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)
320-3015-1	KBALT03-061513	PCB-40/71 PCB-41 PCB-42 PCB-43 PCB-44/47/65 PCB-45 PCB-46 PCB-48 PCB-49/69 PCB-50/53 PCB-51 PCB-52 PCB-55 PCB-56 PCB-57 PCB-58 PCB-59/62/75 PCB-60 PCB-61/70/74/76 PCB-63 PCB-64 PCB-66 PCB-67	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

SDG	Sample	Compound	Flag	A or P	Reason
320-3015-1	KBALT03-061513 (Continued)	PCB-68 PCB-72 PCB-73 PCB-77 PCB-78 PCB-79 PCB-80 Total Tetrachlorobiphenyls PCB-82 PCB-83 PCB-84 PCB-85/116/117 PCB-86/87/97/108/119/125 PCB-88/91 PCB-89 PCB-90/101/113 PCB-92 PCB-93/100 PCB-94 PCB-95 PCB-96 PCB-98/102 PCB-103 PCB-106 PCB-107/124 PCB-109 PCB-110/115 PCB-111 PCB-112 PCB-120 PCB-121 PCB-122 PCB-127 Total Pentachlorobiphenyls PCB-170 PCB-171/173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCB-180/193 PCB-181 PCB-182 PCB-183 PCB-184 PCB-185 PCB-186 PCB-187 PCB-188 PCB-190 PCB-191 PCB-192 Total Heptachlorobiphenyls PCB-194 PCB-195 PCB-196 PCB-197 PCB-198/199 PCB-200 PCB-201 PCB-202 PCB-203 PCB-204 Total Octachlorobiphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

SDG	Sample	Compound	Flag	A or P	Reason
320-3015-1	SW201-061013 SW202-061013 SW203-061013 SW204-061113 SW205-061113 KB201-061213 KB202-061213 KB203-061213 KB204-061213 KB205-061213 BI201-061413 BI202-061413 BI203-061413 BI204-061413 BI205-061413 BI101-061313 BI102-061313 BI103-061313 BI104-061313 BI105-061313 SW25-061513 SW26/27-061513 SW28-061113 SW28DUP-061113 SW31-061113 SW102-061113 KB01-061113 KBALT02-061513 KBALT03-061513 KB04-061513 KB05-061513 FISH HOMOGINATION BLANK MUSSEL HOMOGINATION BLANK	Individual PCB congeners reported by the lab as estimated maximum possible concentration (EMPC)	U	A	Compound quantitation (EMPC)
320-3015-1	SW201-061013 SW202-061013 SW203-061013 SW204-061113 SW205-061113 SW28-061113 SW28DUP-061113 SW102-061113	Results were flagged “E” by the laboratory to indicate sample exceeded calibration range.	J (all detects)	P	Compound quantitation (exceeded range)
320-3015-1	KB203-061213 KB204-061213 BI201-061413 BI202-061413 BI203-061413 BI204-061413 BI205-061413 BI102-061313 BI104-061313 BI105-061313 SW25-061513 SW102-061113	Total Dichlorobiphenyls	U	A	Compound quantitation (EMPC)
320-3015-1	BI103-061313 SW26/27-061513 SW28DUP-061113	Total Dichlorobiphenyls Total Monochlorobiphenyls	U	A	Compound quantitation (EMPC)
320-3015-1	KB01-061113 KBALT02-061513 KBALT03-061513	Total Monochlorobiphenyls	U	A	Compound quantitation (EMPC)

Adak LTM 2013
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 320-3015-1

SDG	Sample	Compound	Modified Final Concentration	A or P
320-3015-1	SW201-061013	PCB-11 PCB-21/33 Total Dichlorobiphenyls	5.0U pg/g 1.4U pg/g 5.0U pg/g	A
320-3015-1	SW202-061013	PCB-11 PCB-21/33 Total Dichlorobiphenyls	3.7U pg/g 1.3U pg/g 3.7U pg/g	A
320-3015-1	SW203-061013	PCB-11 PCB-21/33 Total Dichlorobiphenyls	5.0U pg/g 1.3U pg/g 5.0U pg/g	A
320-3015-1	SW205-061113	PCB-11 PCB-21/33 Total Dichlorobiphenyls	4.4U pg/g 1.6U pg/g 4.4U pg/g	A
320-3015-1	KB201-061213	PCB-11 PCB-21/33 Total Dichlorobiphenyls	3.8U pg/g 0.63U pg/g 3.8U pg/g	A
320-3015-1	KB202-061213	PCB-11 PCB-31 PCB-40/71 Total Dichlorobiphenyls	3.6U pg/g 2.7U pg/g 0.23U pg/g 3.6U pg/g	A
320-3015-1	KB203-061213	PCB-21/33 PCB-40/71	0.42U pg/g 0.36U pg/g	A
320-3015-1	KB204-061213	PCB-40/71	0.49U pg/g	A
320-3015-1	KB205-061213	PCB-11 PCB-21/33 PCB-40/71 Total Dichlorobiphenyls	3.9U pg/g 0.51U pg/g 0.32U pg/g 3.9U pg/g	A
320-3015-1	BI201-061413	PCB-21/33 PCB-31 PCB-40/71 PCB-44/47/65 PCB-95 PCB-110/115 PCB-132 Total Trichlorobiphenyls	0.35U pg/g 2.2U pg/g 0.21U pg/g 1.9U pg/g 1.2U pg/g 2.7U pg/g 0.72U pg/g 8.5U pg/g	A

SDG	Sample	Compound	Modified Final Concentration	A or P
320-3015-1	BI202-061413	PCB-31 PCB-40/71 PCB-44/47/65 PCB-49/69 PCB-52 PCB-64 PCB-86/87/97/108/119/125 PCB-95 PCB-110/115 Total Trichlorobiphenyls	2.3U pg/g 0.28U pg/g 1.9U pg/g 0.94U pg/g 2.8U pg/g 0.58U pg/g 1.7U pg/g 1.3U pg/g 2.4U pg/g 8.8U pg/g	A
320-3015-1	BI203-061413	PCB-31 PCB-44/47/65 PCB-49/69 PCB-52 PCB-64 PCB-86/87/97/108/119/125 PCB-95 PCB-110/115 PCB-132 Total Trichlorobiphenyls Total Tetrachlorobiphenyls	1.6U pg/g 1.8U pg/g 1.0U pg/g 3.0U pg/g 0.54U pg/g 1.9U pg/g 1.2U pg/g 2.5U pg/g 0.73U pg/g 6.4U pg/g 15U pg/g	A
320-3015-1	BI204-061413	PCB-40/71 PCB-44/47/65	0.42U pg/g 3.0U pg/g	A
320-3015-1	BI205-061413	PCB-21/33 PCB-31 PCB-40/71 PCB-44/47/65 PCB-64 PCB-95 PCB-110/115 PCB-132 Total Trichlorobiphenyls	0.37U pg/g 1.7U pg/g 0.22U pg/g 2.0U pg/g 0.58U pg/g 1.1U pg/g 2.7U pg/g 0.90U pg/g 6.8U pg/g	A
320-3015-1	BI101-061313	PCB-31 PCB-32 PCB-50/53 PCB-64	4.4U pg/g 0.34U pg/g 0.42U pg/g 0.80U pg/g	A
320-3015-1	BI102-061313	PCB-16 PCB-31 PCB-32 PCB-49/69 PCB-64	1.1U pg/g 4.1U pg/g 0.29U pg/g 1.4U pg/g 0.61U pg/g	A
320-3015-1	BI103-061313	PCB-16 PCB-50/53	1.3U pg/g 0.48U pg/g	A
320-3015-1	BI104-061313	PCB-16 PCB-31 PCB-32 PCB-49/69 PCB-50/53 PCB-64	1.1U pg/g 3.6U pg/g 0.41U pg/g 1.3U pg/g 0.27U pg/g 0.76U pg/g	A

SDG	Sample	Compound	Modified Final Concentration	A or P
320-3015-1	BI105-061313	PCB-16 PCB-32 PCB-50/53 PCB-64	1.2U pg/g 0.30U pg/g 0.37U pg/g 0.78U pg/g	A
320-3015-1	KB04-061513	PCB-32	0.28U pg/g	A
320-3015-1	FISH HOMOGINATION BLANK	PCB-18/30 PCB-44/47/65 Total Tetrachlorobiphenyls	2.7U pg/L 6.0U pg/L 17U pg/L	A
320-3015-1	MUSSEL HOMOGINATION BLANK	PCB-18/30 PCB-44/47/65 PCB-129/138/163 Total Trichlorobiphenyls Total Tetrachlorobiphenyls	3.3U pg/L 6.3U pg/L 5.0U pg/L 14U pg/L 19U pg/L	A

Adak LTM 2013
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 320-3015-1

No Sample Data Qualified in this SDG

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW201-061013
Lab Sample ID: 320-3015-1
Matrix: Tissue
Lab File ID: 25JN1312D8_5.d
Analysis Method: 1668A
Date Collected: 06/10/2013 19:38
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.23(g)
Date Analyzed: 06/25/2013 17:13
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.30
2051-61-8	PCB-2	ND		20	0.26
2051-62-9	PCB-3	ND		20	0.24
13029-08-8	PCB-4	ND		20	2.6
16605-91-7	PCB-5	ND		20	1.5
25569-80-6	PCB-6	ND		20	1.5
33284-50-3	PCB-7	ND		20	1.4
34883-43-7	PCB-8	ND		20	1.5
34883-39-1	PCB-9	ND		20	1.6
33146-45-1	PCB-10	ND		20	1.5
2050-67-1	PCB-11	5.0	J B U	20	1.5
STL01797	PCB-12/13	ND		39	1.6
34883-41-5	PCB-14	ND		20	1.3
2050-68-2	PCB-15	ND		20	1.5
38444-78-9	PCB-16	0.81	J	20	0.15
37680-66-3	PCB-17	0.99	J	20	0.12
STL01798	PCB-18/30	3.0	J B	39	0.099
38444-73-4	PCB-19	ND		20	0.18
STL01799	PCB-20/28	50	B	39	0.59
STL01800	PCB-21/33	1.4	J B U	39	0.55
38444-85-8	PCB-22	8.2	J	20	0.63
55720-44-0	PCB-23	ND		20	0.54
55702-45-9	PCB-24	0.095	J q U	20	0.089
55712-37-3	PCB-25	1.0	J	20	0.55
STL01801	PCB-26/29	4.9	J	39	0.55
38444-76-7	PCB-27	0.27	J	20	0.088
16606-02-3	PCB-31	16	J B	20	0.54
38444-77-8	PCB-32	1.1	J	20	0.077
37680-68-5	PCB-34	ND		20	0.55
37680-69-6	PCB-35	ND		20	0.66
38444-87-0	PCB-36	ND		20	0.58
38444-90-5	PCB-37	1.3	J	20	0.58
53555-66-1	PCB-38	ND		20	0.63
38444-88-1	PCB-39	ND		20	0.59

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW201-061013 | Lab Sample ID: 320-3015-1

Matrix: Tissue | Lab File ID: 25JN1312D8_5.d

Analysis Method: 1668A | Date Collected: 06/10/2013 19:38

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.23(g) | Date Analyzed: 06/25/2013 17:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	3.9	J B	39	0.21
52663-59-9	PCB-41	ND		20	0.26
36559-22-5	PCB-42	4.5	J	20	0.22
70362-46-8	PCB-43	ND		20	0.23
STL01803	PCB-44/47/65	150	B	59	0.20
70362-45-7	PCB-45	0.93	J	20	0.22
41464-47-5	PCB-46	ND		20	0.24
70362-47-9	PCB-48	ND		20	0.21
STL01805	PCB-49/69	230	B	39	0.17
STL01806	PCB-50/53	0.96	J B	39	0.19
68194-04-7	PCB-51	0.27	J	20	0.20
35693-99-3	PCB-52	520	B	20	0.21
15968-05-5	PCB-54	ND		20	0.047
74338-24-2	PCB-55	ND		20	4.1
41464-43-1	PCB-56	7.3	J	20	4.7
70424-67-8	PCB-57	ND		20	4.2
41464-49-7	PCB-58	ND		20	4.2
STL01807	PCB-59/62/75	16	J	59	0.16
33025-41-1	PCB-60	47		20	4.4
STL01808	PCB-61/70/74/76	820	B	78	4.1
74472-34-7	PCB-63	18	J	20	3.9
52663-58-8	PCB-64	71	B	20	0.15
32598-10-0	PCB-66	450	B	20	4.7
73575-53-8	PCB-67	ND		20	3.9
73575-52-7	PCB-68	5.8	J B	20	3.7
41464-42-0	PCB-72	7.0	J	20	4.0
74338-23-1	PCB-73	ND		20	0.17
32598-13-3	PCB-77	ND	G	5.1	5.1
70362-49-1	PCB-78	ND		20	4.7
41464-48-6	PCB-79	ND		20	4.1
33284-52-5	PCB-80	ND		20	3.9
70362-50-4	PCB-81	ND	G	5.3	5.3
52663-62-4	PCB-82	ND	G	24	24
60145-20-2	PCB-83	ND	G	24	24

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW201-061013
Lab Sample ID: 320-3015-1
Matrix: Tissue
Lab File ID: 25JN1312D8_5.d
Analysis Method: 1668A
Date Collected: 06/10/2013 19:38
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.23(g)
Date Analyzed: 06/25/2013 17:13
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	35	G	21	21
STL01810	PCB-85/116/117	510		59	17
STL01811	PCB-86/87/97/108/119/125	890	B	120	17
STL01812	PCB-88/91	40		39	17
73575-57-2	PCB-89	ND		20	20
STL01813	PCB-90/101/113	2800	B	59	17
52663-61-3	PCB-92	460		20	19
STL01814	PCB-93/100	ND		39	18
73575-55-0	PCB-94	ND		20	18
38379-99-6	PCB-95	210	B	20	17
73575-54-9	PCB-96	0.21	J	20	0.037
STL01843	PCB-98/102	ND		39	17
38380-01-7	PCB-99	2200	B E J	20	18
60145-21-3	PCB-103	27		20	16
56558-16-8	PCB-104	ND		20	0.043
32598-14-4	PCB-105	990	G B	18	18
70424-69-0	PCB-106	ND		20	17
STL01815	PCB-107/124	58		39	16
74472-35-8	PCB-109	300		20	15
STL01826	PCB-110/115	1200	B	39	15
39635-32-0	PCB-111	ND		20	14
74472-36-9	PCB-112	ND		20	13
74472-37-0	PCB-114	63	G	17	17
31508-00-6	PCB-118	3800	E G B J	17	17
68194-12-7	PCB-120	ND		20	15
56558-18-0	PCB-121	ND		20	13
76842-07-4	PCB-122	ND		20	19
65510-44-3	PCB-123	44	G	18	18
57465-28-8	PCB-126	ND	G	19	19
39635-33-1	PCB-127	ND		20	17
STL01816	PCB-128/166	1400	G	74	74
STL01817	PCB-129/138/163	18000	G B E J	80	80
52663-66-8	PCB-130	390	G	100	100
61798-70-7	PCB-131	ND	G	96	96

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW201-061013 | Lab Sample ID: 320-3015-1

Matrix: Tissue | Lab File ID: 25JN1312D8_5.d

Analysis Method: 1668A | Date Collected: 06/10/2013 19:38

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.23(g) | Date Analyzed: 06/25/2013 17:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	530	G B	90	90
35694-04-3	PCB-133	320	G	92	92
STL01818	PCB-134/143	220	G	90	90
STL01819	PCB-135/151	3100	G	78	78
38411-22-2	PCB-136	370	G	54	54
35694-06-5	PCB-137	280	G	86	86
STL01820	PCB-139/140	140	G	77	77
52712-04-6	PCB-141	1100	G	87	87
41411-61-4	PCB-142	ND	G	89	89
68194-14-9	PCB-144	270	G	76	76
74472-40-5	PCB-145	ND	G	53	53
51908-16-8	PCB-146	2700	G E J	85	85
STL01821	PCB-147/149	1600	G B	77	77
74472-41-6	PCB-148	ND	G	74	74
68194-08-1	PCB-150	ND	G	50	50
68194-09-2	PCB-152	ND	G	49	49
STL01822	PCB-153/168	19000	G B E J	67	67
60145-22-4	PCB-154	190	G	67	67
33979-03-2	PCB-155	ND	G	60	60
STL01792	PCB-156/157	770	G	8.7	8.7
74472-42-7	PCB-158	1200	G	61	61
39635-35-3	PCB-159	24		20	7.9
41411-62-5	PCB-160	ND	G	71	71
74472-43-8	PCB-161	ND	G	64	64
39635-34-2	PCB-162	82		20	7.7
74472-45-0	PCB-164	290	G	62	62
74472-46-1	PCB-165	ND	G	72	72
52663-72-6	PCB-167	510	G	6.7	6.7
32774-16-6	PCB-169	ND	G	10	10
35065-30-6	PCB-170	4000	B E J	20	3.3
STL01823	PCB-171/173	1600		39	3.1
52663-74-8	PCB-172	890		20	3.1
38411-25-5	PCB-174	820	B	20	3.2
40186-70-7	PCB-175	190		20	0.96

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW201-061013 | Lab Sample ID: 320-3015-1

Matrix: Tissue | Lab File ID: 25JN1312D8_5.d

Analysis Method: 1668A | Date Collected: 06/10/2013 19:38

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.23(g) | Date Analyzed: 06/25/2013 17:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	230		20	0.68
52663-70-4	PCB-177	1000		20	3.2
52663-67-9	PCB-178	1500		20	0.99
52663-64-6	PCB-179	1300		20	0.75
STL01824	PCB-180/193	9300	B E	39	2.5
74472-47-2	PCB-181	ND		20	2.7
60145-23-5	PCB-182	22		20	0.89
52663-69-1	PCB-183	3600	B E	20	2.4
74472-48-3	PCB-184	ND		20	0.75
52712-05-7	PCB-185	ND		20	2.9
74472-49-4	PCB-186	ND		20	0.71
52663-68-0	PCB-187	5500	B E	20	0.92
74487-85-7	PCB-188	ND		20	0.58
39635-31-9	PCB-189	180		2.0	0.46
41411-64-7	PCB-190	680		20	2.3
74472-50-7	PCB-191	180		20	2.2
74472-51-8	PCB-192	ND		20	2.3
35694-08-7	PCB-194	1400		20	1.2
52663-78-2	PCB-195	750		20	1.1
42740-50-1	PCB-196	1300		20	5.9
33091-17-7	PCB-197	120		20	3.9
STL01825	PCB-198/199	2800		39	6.1
52663-73-7	PCB-200	150		20	4.5
40186-71-8	PCB-201	350		20	4.1
2136-99-4	PCB-202	430		20	3.3
52663-76-0	PCB-203	1800		20	5.5
74472-52-9	PCB-204	ND		20	4.3
74472-53-0	PCB-205	150		20	1.6
40186-72-9	PCB-206	890		20	0.72
52663-79-3	PCB-207	60		20	0.40
52663-77-1	PCB-208	230		20	0.37
2051-24-3	PCB-209	320	B	20	0.13
27323-18-8	Total Monochlorobiphenyls	ND		200	0.30
25512-42-9	Total Dichlorobiphenyls	5.0	J B	200	1.6

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW201-061013
Lab Sample ID: 320-3015-1
Matrix: Tissue
Lab File ID: 25JN1312D8_5.d
Analysis Method: 1668A
Date Collected: 06/10/2013 19:38
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.23(g)
Date Analyzed: 06/25/2013 17:13
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	89	J q B	200	0.42
26914-33-0	Total Tetrachlorobiphenyls	2400	B	200	2.3
25429-29-2	Total Pentachlorobiphenyls	14000	B E J	200	16
26601-64-9	Total Hexachlorobiphenyls	53000	B E	200	64
28655-71-2	Total Heptachlorobiphenyls	31000	B E	200	1.9
55722-26-4	Total Octachlorobiphenyls	9100		200	3.8
53742-07-7	Total Nonachlorobiphenyls	1200		200	0.50

MY 08/2/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW202-061013 | Lab Sample ID: 320-3015-2

Matrix: Tissue | Lab File ID: 25JN1312D8_6.d

Analysis Method: 1668A | Date Collected: 06/10/2013 20:45

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.15(g) | Date Analyzed: 06/25/2013 18:26

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.24
2051-61-8	PCB-2	ND		20	0.21
2051-62-9	PCB-3	ND		20	0.19
13029-08-8	PCB-4	ND		20	2.3
16605-91-7	PCB-5	ND		20	2.2
25569-80-6	PCB-6	ND		20	2.2
33284-50-3	PCB-7	ND		20	2.0
34883-43-7	PCB-8	ND		20	2.1
34883-39-1	PCB-9	ND		20	2.2
33146-45-1	PCB-10	ND		20	1.5
2050-67-1	PCB-11	3.7	J B U	20	2.2
STL01797	PCB-12/13	ND		39	2.2
34883-41-5	PCB-14	ND		20	1.9
2050-68-2	PCB-15	ND		20	2.2
38444-78-9	PCB-16	0.77	J	20	0.18
37680-66-3	PCB-17	1.2	J	20	0.13
STL01798	PCB-18/30	2.7	J B	39	0.11
38444-73-4	PCB-19	0.37	J	20	0.20
STL01799	PCB-20/28	25	J B	39	0.25
STL01800	PCB-21/33	1.3	J B U	39	0.24
38444-85-8	PCB-22	4.8	J	20	0.27
55720-44-0	PCB-23	ND		20	0.23
55702-45-9	PCB-24	ND		20	0.10
55712-37-3	PCB-25	0.83	J	20	0.24
STL01801	PCB-26/29	2.7	J	39	0.24
38444-76-7	PCB-27	0.27	J	20	0.10
16606-02-3	PCB-31	8.4	J B	20	0.23
38444-77-8	PCB-32	1.1	J	20	0.088
37680-68-5	PCB-34	ND		20	0.24
37680-69-6	PCB-35	ND		20	0.28
38444-87-0	PCB-36	ND		20	0.25
38444-90-5	PCB-37	0.58	J	20	0.26
53555-66-1	PCB-38	ND		20	0.27
38444-88-1	PCB-39	ND		20	0.25

02/13/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW202-061013
Lab Sample ID: 320-3015-2
Matrix: Tissue
Lab File ID: 25JN1312D8_6.d
Analysis Method: 1668A
Date Collected: 06/10/2013 20:45
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.15(g)
Date Analyzed: 06/25/2013 18:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	4.6	J B	39	0.21
52663-59-9	PCB-41	ND		20	0.25
36559-22-5	PCB-42	3.2	J	20	0.22
70362-46-8	PCB-43	ND		20	0.22
STL01803	PCB-44/47/65	33	J B	59	0.19
70362-45-7	PCB-45	0.81	J	20	0.21
41464-47-5	PCB-46	ND		20	0.23
70362-47-9	PCB-48	1.7	J	20	0.21
STL01805	PCB-49/69	44	B	39	0.17
STL01806	PCB-50/53	1.3	J B	39	0.19
68194-04-7	PCB-51	0.29	J	20	0.19
35693-99-3	PCB-52	120	B	20	0.20
15968-05-5	PCB-54	0.11	J	20	0.068
74338-24-2	PCB-55	ND		20	1.1
41464-43-1	PCB-56	5.7	J	20	1.2
70424-67-8	PCB-57	ND		20	1.1
41464-49-7	PCB-58	ND		20	1.1
STL01807	PCB-59/62/75	2.7	J	59	0.15
33025-41-1	PCB-60	14	J	20	1.2
STL01808	PCB-61/70/74/76	150	B	79	1.1
74472-34-7	PCB-63	3.2	J	20	1.0
52663-58-8	PCB-64	15	J B	20	0.14
32598-10-0	PCB-66	83	B	20	1.2
73575-53-8	PCB-67	ND		20	1.0
73575-52-7	PCB-68	1.3	J B	20	0.98
41464-42-0	PCB-72	1.3	J	20	1.1
74338-23-1	PCB-73	ND		20	0.16
32598-13-3	PCB-77	ND		2.0	1.3
70362-49-1	PCB-78	ND		20	1.3
41464-48-6	PCB-79	1.5	J	20	1.1
33284-52-5	PCB-80	ND		20	1.0
70362-50-4	PCB-81	ND		2.0	1.3
52663-62-4	PCB-82	14	J	20	10
60145-20-2	PCB-83	ND		20	10

0827/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW202-061013
Lab Sample ID: 320-3015-2
Matrix: Tissue
Lab File ID: 25JN1312D8_6.d
Analysis Method: 1668A
Date Collected: 06/10/2013 20:45
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.15(g)
Date Analyzed: 06/25/2013 18:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	27		20	8.7
STL01810	PCB-85/116/117	88		59	6.9
STL01811	PCB-86/87/97/108/119/125	220	B	120	6.8
STL01812	PCB-88/91	18	J	39	7.2
73575-57-2	PCB-89	ND		20	8.3
STL01813	PCB-90/101/113	890	B	59	6.8
52663-61-3	PCB-92	140		20	7.8
STL01814	PCB-93/100	ND		39	7.3
73575-55-0	PCB-94	ND		20	7.6
38379-99-6	PCB-95	180	B	20	7.2
73575-54-9	PCB-96	0.26	J	20	0.042
STL01843	PCB-98/102	ND		39	6.9
38380-01-7	PCB-99	510	B	20	7.5
60145-21-3	PCB-103	13	J	20	6.5
56558-16-8	PCB-104	ND		20	0.051
32598-14-4	PCB-105	230	B G	7.4	7.4
70424-69-0	PCB-106	ND		20	7.0
STL01815	PCB-107/124	16	J	39	6.7
74472-35-8	PCB-109	61		20	6.2
STL01826	PCB-110/115	480	B	39	6.0
39635-32-0	PCB-111	ND		20	5.9
74472-36-9	PCB-112	ND		20	5.6
74472-37-0	PCB-114	8.7	G	7.0	7.0
31508-00-6	PCB-118	710	B G	6.7	6.7
68194-12-7	PCB-120	7.1	J	20	6.1
56558-18-0	PCB-121	ND		20	5.4
76842-07-4	PCB-122	ND		20	7.7
65510-44-3	PCB-123	9.3	G	7.1	7.1
57465-28-8	PCB-126	ND	G	7.5	7.5
39635-33-1	PCB-127	ND		20	7.1
STL01816	PCB-128/166	370		39	20
STL01817	PCB-129/138/163	5500	B	59	22
52663-66-8	PCB-130	130	G	27	27
61798-70-7	PCB-131	ND	G	26	26

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW202-061013
Lab Sample ID: 320-3015-2
Matrix: Tissue
Lab File ID: 25JN1312D8_6.d
Analysis Method: 1668A
Date Collected: 06/10/2013 20:45
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.15(g)
Date Analyzed: 06/25/2013 18:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	340	B G	24	24
35694-04-3	PCB-133	82	G	25	25
STL01818	PCB-134/143	97		39	24
STL01819	PCB-135/151	1200		39	21
38411-22-2	PCB-136	250		20	15
35694-06-5	PCB-137	52	G	23	23
STL01820	PCB-139/140	30	J	39	21
52712-04-6	PCB-141	520	G	23	23
41411-61-4	PCB-142	ND	G	24	24
68194-14-9	PCB-144	130	G	21	21
74472-40-5	PCB-145	ND		20	14
51908-16-8	PCB-146	870	G	23	23
STL01821	PCB-147/149	1200	B	39	21
74472-41-6	PCB-148	ND		20	20
68194-08-1	PCB-150	ND		20	13
68194-09-2	PCB-152	ND		20	13
STL01822	PCB-153/168	5500	B E J	39	18
60145-22-4	PCB-154	56		20	18
33979-03-2	PCB-155	ND		20	15
STL01792	PCB-156/157	270		3.9	2.6
74472-42-7	PCB-158	390		20	16
39635-35-3	PCB-159	15	J	20	2.3
41411-62-5	PCB-160	ND		20	19
74472-43-8	PCB-161	ND		20	17
39635-34-2	PCB-162	17	J	20	2.2
74472-45-0	PCB-164	140		20	17
74472-46-1	PCB-165	ND		20	19
52663-72-6	PCB-167	170	G	2.1	2.1
32774-16-6	PCB-169	ND	G	3.1	3.1
35065-30-6	PCB-170	1400	B	20	0.90
STL01823	PCB-171/173	530		39	0.86
52663-74-8	PCB-172	270		20	0.86
38411-25-5	PCB-174	510	B	20	0.89
40186-70-7	PCB-175	55		20	0.42

027/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW202-061013 | Lab Sample ID: 320-3015-2

Matrix: Tissue | Lab File ID: 25JN1312D8_6.d

Analysis Method: 1668A | Date Collected: 06/10/2013 20:45

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.15(g) | Date Analyzed: 06/25/2013 18:26

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	120		20	0.30
52663-70-4	PCB-177	460		20	0.88
52663-67-9	PCB-178	360		20	0.44
52663-64-6	PCB-179	540		20	0.33
STL01824	PCB-180/193	3100	B	39	0.69
74472-47-2	PCB-181	ND		20	0.74
60145-23-5	PCB-182	ND		20	0.39
52663-69-1	PCB-183	1000	B	20	0.65
74472-48-3	PCB-184	ND		20	0.33
52712-05-7	PCB-185	ND		20	0.80
74472-49-4	PCB-186	ND		20	0.31
52663-68-0	PCB-187	1800	B	20	0.40
74487-85-7	PCB-188	ND		20	0.29
39635-31-9	PCB-189	71		2.0	0.22
41411-64-7	PCB-190	180		20	0.64
74472-50-7	PCB-191	68		20	0.62
74472-51-8	PCB-192	ND		20	0.65
35694-08-7	PCB-194	510		20	0.41
52663-78-2	PCB-195	180		20	0.38
42740-50-1	PCB-196	310		20	1.6
33091-17-7	PCB-197	29		20	1.1
STL01825	PCB-198/199	540		39	1.7
52663-73-7	PCB-200	44		20	1.2
40186-71-8	PCB-201	84		20	1.1
2136-99-4	PCB-202	110		20	1.1
52663-76-0	PCB-203	310		20	1.5
74472-52-9	PCB-204	ND		20	1.2
74472-53-0	PCB-205	29		20	0.38
40186-72-9	PCB-206	260		20	0.54
52663-79-3	PCB-207	22		20	0.34
52663-77-1	PCB-208	82		20	0.34
2051-24-3	PCB-209	120	B	20	0.11
27323-18-8	Total Monochlorobiphenyls	ND		200	0.24
25512-42-9	Total Dichlorobiphenyls	3.7	J B U	200	2.1

027138/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW202-061013
Lab Sample ID: 320-3015-2
Matrix: Tissue
Lab File ID: 25JN1312D8_6.d
Analysis Method: 1668A
Date Collected: 06/10/2013 20:45
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.15(g)
Date Analyzed: 06/25/2013 18:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	50	J B	200	0.21
26914-33-0	Total Tetrachlorobiphenyls	490	B	200	0.66
25429-29-2	Total Pentachlorobiphenyls	3600	B	200	6.7
26601-64-9	Total Hexachlorobiphenyls	17000	B E J	200	17
28655-71-2	Total Heptachlorobiphenyls	11000	B	200	0.57
55722-26-4	Total Octachlorobiphenyls	2200		200	1.1
53742-07-7	Total Nonachlorobiphenyls	360		200	0.41

0727/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW203-061013 | Lab Sample ID: 320-3015-3

Matrix: Tissue | Lab File ID: 25JN1312D8_7.d

Analysis Method: 1668A | Date Collected: 06/10/2013 21:35

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.21(g) | Date Analyzed: 06/25/2013 19:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.27
2051-61-8	PCB-2	ND		20	0.23
2051-62-9	PCB-3	ND		20	0.21
13029-08-8	PCB-4	ND		20	2.2
16605-91-7	PCB-5	ND		20	1.6
25569-80-6	PCB-6	ND		20	1.5
33284-50-3	PCB-7	ND		20	1.4
34883-43-7	PCB-8	ND		20	1.5
34883-39-1	PCB-9	ND		20	1.6
33146-45-1	PCB-10	ND		20	1.4
2050-67-1	PCB-11	5.0	J B U	20	1.6
STL01797	PCB-12/13	ND		39	1.6
34883-41-5	PCB-14	ND		20	1.4
2050-68-2	PCB-15	ND		20	1.6
38444-78-9	PCB-16	0.59	J q U	20	0.13
37680-66-3	PCB-17	0.83	J	20	0.095
STL01798	PCB-18/30	1.8	J B	39	0.081
38444-73-4	PCB-19	0.21	J q U	20	0.15
STL01799	PCB-20/28	16	J B	39	0.21
STL01800	PCB-21/33	1.3	J B U	39	0.20
38444-85-8	PCB-22	4.5	J	20	0.23
55720-44-0	PCB-23	ND		20	0.20
55702-45-9	PCB-24	ND		20	0.073
55712-37-3	PCB-25	0.52	J q U	20	0.20
STL01801	PCB-26/29	1.8	J	39	0.20
38444-76-7	PCB-27	0.19	J q U	20	0.071
16606-02-3	PCB-31	5.6	J B	20	0.20
38444-77-8	PCB-32	0.71	J	20	0.063
37680-68-5	PCB-34	ND		20	0.20
37680-69-6	PCB-35	ND		20	0.24
38444-87-0	PCB-36	ND		20	0.21
38444-90-5	PCB-37	0.65	J	20	0.22
53555-66-1	PCB-38	ND		20	0.23
38444-88-1	PCB-39	ND		20	0.21

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW203-061013 | Lab Sample ID: 320-3015-3

Matrix: Tissue | Lab File ID: 25JN1312D8_7.d

Analysis Method: 1668A | Date Collected: 06/10/2013 21:35

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.21(g) | Date Analyzed: 06/25/2013 19:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	3.2	J B	39	0.10
52663-59-9	PCB-41	ND		20	0.13
36559-22-5	PCB-42	1.9	J	20	0.11
70362-46-8	PCB-43	ND		20	0.11
STL01803	PCB-44/47/65	23	J B	59	0.098
70362-45-7	PCB-45	ND		20	0.11
41464-47-5	PCB-46	ND		20	0.12
70362-47-9	PCB-48	1.3	J	20	0.10
STL01805	PCB-49/69	29	J B	39	0.086
STL01806	PCB-50/53	0.84	J B	39	0.094
68194-04-7	PCB-51	ND		20	0.097
35693-99-3	PCB-52	75	B	20	0.10
15968-05-5	PCB-54	ND		20	0.051
74338-24-2	PCB-55	ND		20	0.93
41464-43-1	PCB-56	3.6	J	20	1.0
70424-67-8	PCB-57	ND		20	0.94
41464-49-7	PCB-58	ND		20	0.94
STL01807	PCB-59/62/75	3.4	J	59	0.077
33025-41-1	PCB-60	11	J	20	0.99
STL01808	PCB-61/70/74/76	100	B	78	0.92
74472-34-7	PCB-63	1.9	J	20	0.87
52663-58-8	PCB-64	9.7	J B	20	0.073
32598-10-0	PCB-66	63	B	20	1.1
73575-53-8	PCB-67	ND		20	0.87
73575-52-7	PCB-68	1.1	J B	20	0.83
41464-42-0	PCB-72	1.1	J	20	0.90
74338-23-1	PCB-73	ND		20	0.082
32598-13-3	PCB-77	ND		2.0	1.1
70362-49-1	PCB-78	ND		20	1.1
41464-48-6	PCB-79	ND		20	0.93
33284-52-5	PCB-80	ND		20	0.88
70362-50-4	PCB-81	ND		2.0	1.1
52663-62-4	PCB-82	10	J	20	9.5
60145-20-2	PCB-83	ND		20	9.5

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW203-061013
Lab Sample ID: 320-3015-3
Matrix: Tissue
Lab File ID: 25JN1312D8_7.d
Analysis Method: 1668A
Date Collected: 06/10/2013 21:35
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.21(g)
Date Analyzed: 06/25/2013 19:39
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	21		20	8.2
STL01810	PCB-85/116/117	81		59	6.6
STL01811	PCB-86/87/97/108/119/125	190	B	120	6.5
STL01812	PCB-88/91	11	J	39	6.8
73575-57-2	PCB-89	ND		20	7.9
STL01813	PCB-90/101/113	820	B	59	6.5
52663-61-3	PCB-92	130		20	7.4
STL01814	PCB-93/100	ND		39	6.9
73575-55-0	PCB-94	ND		20	7.2
38379-99-6	PCB-95	150	B	20	6.8
73575-54-9	PCB-96	0.17	J	20	0.033
STL01843	PCB-98/102	ND		39	6.5
38380-01-7	PCB-99	530	B	20	7.1
60145-21-3	PCB-103	15	J	20	6.2
56558-16-8	PCB-104	ND		20	0.039
32598-14-4	PCB-105	220	G B	7.1	7.1
70424-69-0	PCB-106	ND		20	6.7
STL01815	PCB-107/124	14	J	39	6.3
74472-35-8	PCB-109	58		20	5.9
STL01826	PCB-110/115	440	B	39	5.7
39635-32-0	PCB-111	ND		20	5.6
74472-36-9	PCB-112	ND		20	5.3
74472-37-0	PCB-114	11	G	6.7	6.7
31508-00-6	PCB-118	700	G B	6.5	6.5
68194-12-7	PCB-120	7.5	J	20	5.8
56558-18-0	PCB-121	ND		20	5.1
76842-07-4	PCB-122	ND		20	7.3
65510-44-3	PCB-123	8.8	G	6.7	6.7
57465-28-8	PCB-126	ND	G	7.1	7.1
39635-33-1	PCB-127	ND		20	6.7
STL01816	PCB-128/166	440		39	24
STL01817	PCB-129/138/163	6200	B E J	59	26
52663-66-8	PCB-130	120	G	33	33
61798-70-7	PCB-131	ND	G	32	32

FORM I 1668A

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW203-061013 | Lab Sample ID: 320-3015-3

Matrix: Tissue | Lab File ID: 25JN1312D8_7.d

Analysis Method: 1668A | Date Collected: 06/10/2013 21:35

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.21(g) | Date Analyzed: 06/25/2013 19:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	290	G B	29	29
35694-04-3	PCB-133	100	G	30	30
STL01818	PCB-134/143	110		39	29
STL01819	PCB-135/151	1400		39	26
38411-22-2	PCB-136	250		20	18
35694-06-5	PCB-137	58	G	28	28
STL01820	PCB-139/140	36	J	39	25
52712-04-6	PCB-141	510	G	28	28
41411-61-4	PCB-142	ND	G	29	29
68194-14-9	PCB-144	140	G	25	25
74472-40-5	PCB-145	ND		20	17
51908-16-8	PCB-146	950	G	28	28
STL01821	PCB-147/149	1000	B	39	25
74472-41-6	PCB-148	ND	G	24	24
68194-08-1	PCB-150	ND		20	16
68194-09-2	PCB-152	ND		20	16
STL01822	PCB-153/168	6600	B E J	39	22
60145-22-4	PCB-154	81	G	22	22
33979-03-2	PCB-155	ND		20	18
STL01792	PCB-156/157	280	G	4.3	4.3
74472-42-7	PCB-158	460		20	20
39635-35-3	PCB-159	17	J	20	3.7
41411-62-5	PCB-160	ND	G	23	23
74472-43-8	PCB-161	ND	G	21	21
39635-34-2	PCB-162	29		20	3.6
74472-45-0	PCB-164	150		20	20
74472-46-1	PCB-165	ND	G	23	23
52663-72-6	PCB-167	180	G	3.3	3.3
32774-16-6	PCB-169	ND	G	4.7	4.7
35065-30-6	PCB-170	1700	B	20	2.2
STL01823	PCB-171/173	650		39	2.1
52663-74-8	PCB-172	330		20	2.1
38411-25-5	PCB-174	580	B	20	2.1
40186-70-7	PCB-175	71		20	0.48

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW203-061013 | Lab Sample ID: 320-3015-3

Matrix: Tissue | Lab File ID: 25JN1312D8_7.d

Analysis Method: 1668A | Date Collected: 06/10/2013 21:35

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.21(g) | Date Analyzed: 06/25/2013 19:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19300 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	130		20	0.34
52663-70-4	PCB-177	450		20	2.1
52663-67-9	PCB-178	530		20	0.49
52663-64-6	PCB-179	680		20	0.37
STL01824	PCB-180/193	3700	B	39	1.7
74472-47-2	PCB-181	ND		20	1.8
60145-23-5	PCB-182	ND		20	0.44
52663-69-1	PCB-183	1300	B	20	1.6
74472-48-3	PCB-184	ND		20	0.37
52712-05-7	PCB-185	ND		20	1.9
74472-49-4	PCB-186	ND		20	0.35
52663-68-0	PCB-187	2200	B E J	20	0.46
74487-85-7	PCB-188	ND		20	0.33
39635-31-9	PCB-189	76		2.0	0.23
41411-64-7	PCB-190	220		20	1.5
74472-50-7	PCB-191	78		20	1.5
74472-51-8	PCB-192	ND		20	1.6
35694-08-7	PCB-194	600		20	0.54
52663-78-2	PCB-195	260		20	0.50
42740-50-1	PCB-196	420		20	0.47
33091-17-7	PCB-197	39		20	0.32
STL01825	PCB-198/199	780		39	0.49
52663-73-7	PCB-200	65		20	0.36
40186-71-8	PCB-201	120		20	0.34
2136-99-4	PCB-202	170		20	0.33
52663-76-0	PCB-203	460		20	0.45
74472-52-9	PCB-204	ND		20	0.35
74472-53-0	PCB-205	39		20	0.51
40186-72-9	PCB-206	310		20	0.73
52663-79-3	PCB-207	27		20	0.46
52663-77-1	PCB-208	110		20	0.45
2051-24-3	PCB-209	130	B	20	0.074
27323-18-8	Total Monochlorobiphenyls	ND		200	0.27
25512-42-9	Total Dichlorobiphenyls	5.0	J B U	200	1.6

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW203-061013
Lab Sample ID: 320-3015-3
Matrix: Tissue
Lab File ID: 25JN1312D8_7.d
Analysis Method: 1668A
Date Collected: 06/10/2013 21:35
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.21(g)
Date Analyzed: 06/25/2013 19:39
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19300
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	35	J q B	200	0.17
26914-33-0	Total Tetrachlorobiphenyls	330	B	200	0.53
25429-29-2	Total Pentachlorobiphenyls	3400	B	200	6.4
26601-64-9	Total Hexachlorobiphenyls	19000	B E J	200	21
28655-71-2	Total Heptachlorobiphenyls	13000	B E J	200	1.2
55722-26-4	Total Octachlorobiphenyls	3000		200	0.42
53742-07-7	Total Nonachlorobiphenyls	450		200	0.55

JMO 8/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW204-061113 | Lab Sample ID: 320-3015-4

Matrix: Tissue | Lab File ID: 25JN1312D8_13.d

Analysis Method: 1668A | Date Collected: 06/11/2013 07:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.27(g) | Date Analyzed: 06/26/2013 03:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	1.0	J	19	0.30
2051-61-8	PCB-2	ND		19	0.24
2051-62-9	PCB-3	ND		19	0.21
13029-08-8	PCB-4	16	J	19	2.1
16605-91-7	PCB-5	ND		19	1.2
25569-80-6	PCB-6	3.4	J q U	19	1.2
33284-50-3	PCB-7	ND		19	1.1
34883-43-7	PCB-8	8.2	J q U	19	1.1
34883-39-1	PCB-9	6.9	J q U	19	1.2
33146-45-1	PCB-10	ND		19	1.3
2050-67-1	PCB-11	4.3	J q B U	19	1.2
STL01797	PCB-12/13	ND		39	1.2
34883-41-5	PCB-14	ND		19	1.0
2050-68-2	PCB-15	ND		19	1.2
38444-78-9	PCB-16	5.3	J	19	0.12
37680-66-3	PCB-17	12	J	19	0.091
STL01798	PCB-18/30	67	B	39	0.077
38444-73-4	PCB-19	3.9	J	19	0.14
STL01799	PCB-20/28	250	B	39	2.0
STL01800	PCB-21/33	7.2	J B	39	1.8
38444-85-8	PCB-22	110		19	2.1
55720-44-0	PCB-23	ND		19	1.8
55702-45-9	PCB-24	1.8	J q U	19	0.069
55712-37-3	PCB-25	11	J	19	1.9
STL01801	PCB-26/29	39		39	1.9
38444-76-7	PCB-27	2.3	J	19	0.068
16606-02-3	PCB-31	160	B	19	1.8
38444-77-8	PCB-32	15	J	19	0.060
37680-68-5	PCB-34	ND		19	1.9
37680-69-6	PCB-35	ND		19	2.2
38444-87-0	PCB-36	ND		19	1.9
38444-90-5	PCB-37	ND		19	2.0
53555-66-1	PCB-38	ND		19	2.1
38444-88-1	PCB-39	ND		19	2.0

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW204-061113
Lab Sample ID: 320-3015-4
Matrix: Tissue
Lab File ID: 25JN1312D8_13.d
Analysis Method: 1668A
Date Collected: 06/11/2013 07:20
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.27(g)
Date Analyzed: 06/26/2013 03:13
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	15	J B	39	0.21
52663-59-9	PCB-41	ND		19	0.26
36559-22-5	PCB-42	20		19	0.22
70362-46-8	PCB-43	1.7	J	19	0.22
STL01803	PCB-44/47/65	110	B	58	0.19
70362-45-7	PCB-45	8.7	J	19	0.21
41464-47-5	PCB-46	0.83	J	19	0.24
70362-47-9	PCB-48	8.1	J	19	0.21
STL01805	PCB-49/69	96	B	39	0.17
STL01806	PCB-50/53	3.7	J B	39	0.19
68194-04-7	PCB-51	1.3	J	19	0.19
35693-99-3	PCB-52	250	B	19	0.21
15968-05-5	PCB-54	0.17	J	19	0.038
74338-24-2	PCB-55	ND		19	1.1
41464-43-1	PCB-56	6.8	J	19	1.2
70424-67-8	PCB-57	ND		19	1.1
41464-49-7	PCB-58	ND		19	1.1
STL01807	PCB-59/62/75	11	J	58	0.15
33025-41-1	PCB-60	13	J	19	1.1
STL01808	PCB-61/70/74/76	180	B	78	1.1
74472-34-7	PCB-63	4.1	J	19	1.0
52663-58-8	PCB-64	52	B	19	0.14
32598-10-0	PCB-66	83	B	19	1.2
73575-53-8	PCB-67	1.9	J	19	1.0
73575-52-7	PCB-68	0.97	J q B U	19	0.95
41464-42-0	PCB-72	1.3	J	19	1.0
74338-23-1	PCB-73	ND		19	0.16
32598-13-3	PCB-77	ND		1.9	1.2
70362-49-1	PCB-78	ND		19	1.2
41464-48-6	PCB-79	1.2	J	19	1.1
33284-52-5	PCB-80	ND		19	1.0
70362-50-4	PCB-81	ND		1.9	1.2
52663-62-4	PCB-82	9.4	J	19	7.9
60145-20-2	PCB-83	ND		19	7.9

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW204-061113 | Lab Sample ID: 320-3015-4

Matrix: Tissue | Lab File ID: 25JN1312D8_13.d

Analysis Method: 1668A | Date Collected: 06/11/2013 07:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.27(g) | Date Analyzed: 06/26/2013 03:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	35		19	6.8
STL01810	PCB-85/116/117	61		58	5.4
STL01811	PCB-86/87/97/108/119/125	190	B	120	5.4
STL01812	PCB-88/91	18	J	39	5.7
73575-57-2	PCB-89	ND		19	6.5
STL01813	PCB-90/101/113	680	B	58	5.4
52663-61-3	PCB-92	110		19	6.1
STL01814	PCB-93/100	ND		39	5.7
73575-55-0	PCB-94	ND		19	5.9
38379-99-6	PCB-95	160	B	19	5.7
73575-54-9	PCB-96	0.31	J	19	0.031
STL01843	PCB-98/102	ND		39	5.4
38380-01-7	PCB-99	360	B	19	5.9
60145-21-3	PCB-103	10	J	19	5.1
56558-16-8	PCB-104	ND		19	0.039
32598-14-4	PCB-105	160	G B	5.7	5.7
70424-69-0	PCB-106	ND		19	5.5
STL01815	PCB-107/124	12	J	39	5.2
74472-35-8	PCB-109	42		19	4.9
STL01826	PCB-110/115	370	B	39	4.7
39635-32-0	PCB-111	ND		19	4.6
74472-36-9	PCB-112	ND		19	4.4
74472-37-0	PCB-114	7.7	G	5.4	5.4
31508-00-6	PCB-118	500	G B	5.3	5.3
68194-12-7	PCB-120	ND		19	4.8
56558-18-0	PCB-121	ND		19	4.3
76842-07-4	PCB-122	ND		19	6.0
65510-44-3	PCB-123	ND	G	5.6	5.6
57465-28-8	PCB-126	ND	G	5.9	5.9
39635-33-1	PCB-127	ND		19	5.5
STL01816	PCB-128/166	280		39	15
STL01817	PCB-129/138/163	3900	B	58	16
52663-66-8	PCB-130	95	G	20	20
61798-70-7	PCB-131	ND		19	19

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW204-061113
Lab Sample ID: 320-3015-4
Matrix: Tissue
Lab File ID: 25JN1312D8_13.d
Analysis Method: 1668A
Date Collected: 06/11/2013 07:20
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.27(g)
Date Analyzed: 06/26/2013 03:13
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	230	B	19	18
35694-04-3	PCB-133	64		19	18
STL01818	PCB-134/143	72		39	18
STL01819	PCB-135/151	960		39	16
38411-22-2	PCB-136	190		19	11
35694-06-5	PCB-137	53		19	17
STL01820	PCB-139/140	22	J	39	16
52712-04-6	PCB-141	370		19	17
41411-61-4	PCB-142	ND		19	18
68194-14-9	PCB-144	100		19	15
74472-40-5	PCB-145	ND		19	11
51908-16-8	PCB-146	630		19	17
STL01821	PCB-147/149	820	B	39	15
74472-41-6	PCB-148	ND		19	15
68194-08-1	PCB-150	ND		19	9.9
68194-09-2	PCB-152	ND		19	9.9
STL01822	PCB-153/168	4100	B E J	39	13
60145-22-4	PCB-154	46		19	14
33979-03-2	PCB-155	ND		19	12
STL01792	PCB-156/157	180		3.9	1.5
74472-42-7	PCB-158	260		19	12
39635-35-3	PCB-159	12	J	19	1.3
41411-62-5	PCB-160	ND		19	14
74472-43-8	PCB-161	ND		19	13
39635-34-2	PCB-162	9.7	J	19	1.3
74472-45-0	PCB-164	100		19	13
74472-46-1	PCB-165	ND		19	14
52663-72-6	PCB-167	110		1.9	1.1
32774-16-6	PCB-169	ND		1.9	1.7
35065-30-6	PCB-170	1000	B J	19	1.8
STL01823	PCB-171/173	410		39	1.7
52663-74-8	PCB-172	190		19	1.7
38411-25-5	PCB-174	420	B	19	1.8
40186-70-7	PCB-175	45		19	0.30

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW204-061113 | Lab Sample ID: 320-3015-4

Matrix: Tissue | Lab File ID: 25JN1312D8_13.d

Analysis Method: 1668A | Date Collected: 06/11/2013 07:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.27(g) | Date Analyzed: 06/26/2013 03:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	91	J	19	0.21
52663-70-4	PCB-177	420		19	1.7
52663-67-9	PCB-178	340		19	0.31
52663-64-6	PCB-179	470		19	0.23
STL01824	PCB-180/193	2200	B	39	1.4
74472-47-2	PCB-181	ND	UJ	19	1.5
60145-23-5	PCB-182	3.3	J q UJ	19	0.28
52663-69-1	PCB-183	800	B J	19	1.3
74472-48-3	PCB-184	ND	UJ	19	0.23
52712-05-7	PCB-185	ND		19	1.6
74472-49-4	PCB-186	ND		19	0.22
52663-68-0	PCB-187	1400	B J	19	0.29
74487-85-7	PCB-188	ND	UJ	19	0.20
39635-31-9	PCB-189	44		1.9	0.17
41411-64-7	PCB-190	140	J	19	1.3
74472-50-7	PCB-191	42		19	1.2
74472-51-8	PCB-192	ND	UJ	19	1.3
35694-08-7	PCB-194	320	J	19	0.35
52663-78-2	PCB-195	150		19	0.33
42740-50-1	PCB-196	250		19	0.33
33091-17-7	PCB-197	25		19	0.22
STL01825	PCB-198/199	550		39	0.34
52663-73-7	PCB-200	44		19	0.25
40186-71-8	PCB-201	86		19	0.23
2136-99-4	PCB-202	120		19	0.21
52663-76-0	PCB-203	290		19	0.31
74472-52-9	PCB-204	ND	UJ	19	0.24
74472-53-0	PCB-205	23		19	0.37
40186-72-9	PCB-206	190		19	0.25
52663-79-3	PCB-207	17	J	19	0.15
52663-77-1	PCB-208	66		19	0.15
2051-24-3	PCB-209	94	B	19	0.080
27323-18-8	Total Monochlorobiphenyls	1.0	J	190	0.25
25512-42-9	Total Dichlorobiphenyls	39	J q B	190	1.2

44 80713

FORM I 1668A

02/30/13

07/12/2013

FORM I

DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW204-061113 | Lab Sample ID: 320-3015-4

Matrix: Tissue | Lab File ID: 25JN1312D8_13.d

Analysis Method: 1668A | Date Collected: 06/11/2013 07:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.27(g) | Date Analyzed: 06/26/2013 03:13

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	690	q B	190	1.3
26914-33-0	Total Tetrachlorobiphenyls	870	q B	190	0.64
25429-29-2	Total Pentachlorobiphenyls	2700	B	190	5.3
26601-64-9	Total Hexachlorobiphenyls	13000	B E J	190	13
28655-71-2	Total Heptachlorobiphenyls	8000	q B	190	0.94
55722-26-4	Total Octachlorobiphenyls	1900		190	0.29
53742-07-7	Total Nonachlorobiphenyls	280		190	0.18

MH 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW205-061113 | Lab Sample ID: 320-3015-5

Matrix: Tissue | Lab File ID: 25JN1312D8_14.d

Analysis Method: 1668A | Date Collected: 06/11/2013 07:48

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.41(g) | Date Analyzed: 06/26/2013 04:26

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.30
2051-61-8	PCB-2	ND		19	0.25
2051-62-9	PCB-3	ND		19	0.22
13029-08-8	PCB-4	ND		19	2.3
16605-91-7	PCB-5	ND		19	1.4
25569-80-6	PCB-6	ND		19	1.4
33284-50-3	PCB-7	ND		19	1.3
34883-43-7	PCB-8	ND		19	1.4
34883-39-1	PCB-9	ND		19	1.5
33146-45-1	PCB-10	ND		19	1.5
2050-67-1	PCB-11	4.4	J B U	19	1.4
STL01797	PCB-12/13	ND		38	1.5
34883-41-5	PCB-14	ND		19	1.3
2050-68-2	PCB-15	ND		19	1.5
38444-78-9	PCB-16	0.82	J	19	0.12
37680-66-3	PCB-17	1.1	J	19	0.092
STL01798	PCB-18/30	2.1	J B	38	0.078
38444-73-4	PCB-19	0.24	J	19	0.14
STL01799	PCB-20/28	18	J B	38	0.24
STL01800	PCB-21/33	1.6	J B U	38	0.22
38444-85-8	PCB-22	3.7	J	19	0.25
55720-44-0	PCB-23	ND		19	0.22
55702-45-9	PCB-24	ND		19	0.070
55712-37-3	PCB-25	0.48	J q U	19	0.22
STL01801	PCB-26/29	2.2	J	38	0.22
38444-76-7	PCB-27	0.23	J	19	0.069
16606-02-3	PCB-31	7.7	J B	19	0.22
38444-77-8	PCB-32	0.83	J	19	0.060
37680-68-5	PCB-34	ND		19	0.22
37680-69-6	PCB-35	ND		19	0.26
38444-87-0	PCB-36	ND		19	0.23
38444-90-5	PCB-37	0.56	J	19	0.24
53555-66-1	PCB-38	ND		19	0.25
38444-88-1	PCB-39	ND		19	0.24

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW205-061113
Lab Sample ID: 320-3015-5
Matrix: Tissue
Lab File ID: 25JN1312D8_14.d
Analysis Method: 1668A
Date Collected: 06/11/2013 07:48
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.41(g)
Date Analyzed: 06/26/2013 04:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	4.3	J B	38	0.15
52663-59-9	PCB-41	ND		19	0.18
36559-22-5	PCB-42	1.9	J	19	0.16
70362-46-8	PCB-43	ND		19	0.16
STL01803	PCB-44/47/65	33	J B	58	0.14
70362-45-7	PCB-45	ND		19	0.15
41464-47-5	PCB-46	ND		19	0.17
70362-47-9	PCB-48	1.5	J	19	0.15
STL01805	PCB-49/69	38	B	38	0.12
STL01806	PCB-50/53	1.4	J B	38	0.13
68194-04-7	PCB-51	ND		19	0.14
35693-99-3	PCB-52	91	B	19	0.15
15968-05-5	PCB-54	ND		19	0.044
74338-24-2	PCB-55	ND		19	1.1
41464-43-1	PCB-56	4.0	J	19	1.2
70424-67-8	PCB-57	ND		19	1.1
41464-49-7	PCB-58	ND		19	1.1
STL01807	PCB-59/62/75	2.8	J q U	58	0.11
33025-41-1	PCB-60	14	J	19	1.2
STL01808	PCB-61/70/74/76	130	B	77	1.1
74472-34-7	PCB-63	2.4	J	19	1.0
52663-58-8	PCB-64	12	J B	19	0.10
32598-10-0	PCB-66	89	B	19	1.2
73575-53-8	PCB-67	ND		19	1.0
73575-52-7	PCB-68	ND		19	0.98
41464-42-0	PCB-72	ND		19	1.1
74338-23-1	PCB-73	ND		19	0.12
32598-13-3	PCB-77	ND		1.9	1.3
70362-49-1	PCB-78	ND		19	1.2
41464-48-6	PCB-79	ND		19	1.1
33284-52-5	PCB-80	ND		19	1.0
70362-50-4	PCB-81	ND		1.9	1.3
52663-62-4	PCB-82	ND		19	11
60145-20-2	PCB-83	ND		19	11

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW205-061113 | Lab Sample ID: 320-3015-5

Matrix: Tissue | Lab File ID: 25JN1312D8_14.d

Analysis Method: 1668A | Date Collected: 06/11/2013 07:48

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.41(g) | Date Analyzed: 06/26/2013 04:26

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	25		19	9.3
STL01810	PCB-85/116/117	96		58	7.4
STL01811	PCB-86/87/97/108/119/125	220	B	120	7.3
STL01812	PCB-88/91	13	J	38	7.7
73575-57-2	PCB-89	ND		19	8.9
STL01813	PCB-90/101/113	960	B	58	7.3
52663-61-3	PCB-92	170		19	8.3
STL01814	PCB-93/100	ND		38	7.8
73575-55-0	PCB-94	ND		19	8.1
38379-99-6	PCB-95	190	B	19	7.7
73575-54-9	PCB-96	0.22	J	19	0.041
STL01843	PCB-98/102	ND		38	7.4
38380-01-7	PCB-99	740	B	19	8.0
60145-21-3	PCB-103	14	J	19	6.9
56558-16-8	PCB-104	ND		19	0.052
32598-14-4	PCB-105	240	G B	7.6	7.6
70424-69-0	PCB-106	ND		19	7.5
STL01815	PCB-107/124	14	J	38	7.1
74472-35-8	PCB-109	59		19	6.6
STL01826	PCB-110/115	460	B	38	6.5
39635-32-0	PCB-111	41		19	6.3
74472-36-9	PCB-112	ND		19	5.9
74472-37-0	PCB-114	ND	G	7.4	7.4
31508-00-6	PCB-118	760	G B	7.1	7.1
68194-12-7	PCB-120	ND		19	6.5
56558-18-0	PCB-121	ND		19	5.8
76842-07-4	PCB-122	ND		19	8.2
65510-44-3	PCB-123	9.6	G	7.6	7.6
57465-28-8	PCB-126	ND	G	8.1	8.1
39635-33-1	PCB-127	ND		19	7.5
STL01816	PCB-128/166	490		38	30
STL01817	PCB-129/138/163	7500	B E J	58	33
52663-66-8	PCB-130	94	G	41	41
61798-70-7	PCB-131	ND	G	39	39

 CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW205-061113
Lab Sample ID: 320-3015-5
Matrix: Tissue
Lab File ID: 25JN1312D8_14.d
Analysis Method: 1668A
Date Collected: 06/11/2013 07:48
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.41(g)
Date Analyzed: 06/26/2013 04:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	280	G B	36	36
35694-04-3	PCB-133	110	G	37	37
STL01818	PCB-134/143	110		38	36
STL01819	PCB-135/151	1800		38	32
38411-22-2	PCB-136	320	G	22	22
35694-06-5	PCB-137	66	G	35	35
STL01820	PCB-139/140	ND		38	31
52712-04-6	PCB-141	730	G	35	35
41411-61-4	PCB-142	ND	G	36	36
68194-14-9	PCB-144	140	G	31	31
74472-40-5	PCB-145	ND	G	22	22
51908-16-8	PCB-146	940	G	35	35
STL01821	PCB-147/149	960	B	38	31
74472-41-6	PCB-148	ND	G	30	30
68194-08-1	PCB-150	ND	G	20	20
68194-09-2	PCB-152	ND	G	20	20
STL01822	PCB-153/168	8900	B E J	38	27
60145-22-4	PCB-154	100	G	27	27
33979-03-2	PCB-155	ND	G	23	23
STL01792	PCB-156/157	360	G	4.8	4.8
74472-42-7	PCB-158	490	G	25	25
39635-35-3	PCB-159	15	J	19	4.2
41411-62-5	PCB-160	ND	G	29	29
74472-43-8	PCB-161	ND	G	26	26
39635-34-2	PCB-162	17	J	19	4.1
74472-45-0	PCB-164	140	G	25	25
74472-46-1	PCB-165	ND	G	29	29
52663-72-6	PCB-167	200	G	3.7	3.7
32774-16-6	PCB-169	ND	G	5.2	5.2
35065-30-6	PCB-170	2100	B E J	19	1.2
STL01823	PCB-171/173	760		38	1.1
52663-74-8	PCB-172	370		19	1.1
38411-25-5	PCB-174	520	B	19	1.1
40186-70-7	PCB-175	58		19	0.41

FORM I 1668A

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW205-061113
Lab Sample ID: 320-3015-5
Matrix: Tissue
Lab File ID: 25JN1312D8_14.d
Analysis Method: 1668A
Date Collected: 06/11/2013 07:48
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.41(g)
Date Analyzed: 06/26/2013 04:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	130		19	0.29
52663-70-4	PCB-177	430		19	1.1
52663-67-9	PCB-178	580		19	0.42
52663-64-6	PCB-179	840		19	0.32
STL01824	PCB-180/193	5000	B E J	38	0.89
74472-47-2	PCB-181	ND		19	0.95
60145-23-5	PCB-182	ND		19	0.38
52663-69-1	PCB-183	1500	B	19	0.83
74472-48-3	PCB-184	ND		19	0.32
52712-05-7	PCB-185	ND		19	1.0
74472-49-4	PCB-186	ND		19	0.30
52663-68-0	PCB-187	2200	B E J	19	0.39
74487-85-7	PCB-188	ND		19	0.29
39635-31-9	PCB-189	86		1.9	0.23
41411-64-7	PCB-190	290		19	0.82
74472-50-7	PCB-191	90		19	0.79
74472-51-8	PCB-192	ND		19	0.83
35694-08-7	PCB-194	570		19	0.47
52663-78-2	PCB-195	260		19	0.44
42740-50-1	PCB-196	400		19	0.83
33091-17-7	PCB-197	39		19	0.56
STL01825	PCB-198/199	740		38	0.86
52663-73-7	PCB-200	57		19	0.64
40186-71-8	PCB-201	110		19	0.59
2136-99-4	PCB-202	170		19	0.60
52663-76-0	PCB-203	480		19	0.78
74472-52-9	PCB-204	ND		19	0.61
74472-53-0	PCB-205	35		19	0.42
40186-72-9	PCB-206	240		19	0.51
52663-79-3	PCB-207	21		19	0.33
52663-77-1	PCB-208	80		19	0.33
2051-24-3	PCB-209	96	B	19	0.10
27323-18-8	Total Monochlorobiphenyls	ND		190	0.30
25512-42-9	Total Dichlorobiphenyls	4.4	J B U	190	1.5

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW205-061113
Lab Sample ID: 320-3015-5
Matrix: Tissue
Lab File ID: 25JN1312D8_14.d
Analysis Method: 1668A
Date Collected: 06/11/2013 07:48
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.41(g)
Date Analyzed: 06/26/2013 04:26
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	40	J q B	190	0.18
26914-33-0	Total Tetrachlorobiphenyls	420	q B	190	0.63
25429-29-2	Total Pentachlorobiphenyls	4000	B	190	7.2
26601-64-9	Total Hexachlorobiphenyls	24000	B E J	190	26
28655-71-2	Total Heptachlorobiphenyls	15000	B E	190	0.69
55722-26-4	Total Octachlorobiphenyls	2900		190	0.62
53742-07-7	Total Nonachlorobiphenyls	340		190	0.39

MMOB 09/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB201-061213 | Lab Sample ID: 320-3015-7

Matrix: Tissue | Lab File ID: 25JN1312D8_15.d

Analysis Method: 1668A | Date Collected: 06/12/2013 16:34

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.44(g) | Date Analyzed: 06/26/2013 05:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.29
2051-61-8	PCB-2	ND		19	0.23
2051-62-9	PCB-3	ND		19	0.20
13029-08-8	PCB-4	ND		19	2.3
16605-91-7	PCB-5	ND		19	1.9
25569-80-6	PCB-6	ND		19	1.9
33284-50-3	PCB-7	ND		19	1.7
34883-43-7	PCB-8	ND		19	1.8
34883-39-1	PCB-9	ND		19	1.9
33146-45-1	PCB-10	ND		19	1.3
2050-67-1	PCB-11	3.8	J B U	19	1.9
STL01797	PCB-12/13	ND		38	1.9
34883-41-5	PCB-14	ND		19	1.7
2050-68-2	PCB-15	ND		19	1.9
38444-78-9	PCB-16	0.23	J q U	19	0.16
37680-66-3	PCB-17	0.36	J	19	0.12
STL01798	PCB-18/30	0.55	J q B U	38	0.11
38444-73-4	PCB-19	ND		19	0.24
STL01799	PCB-20/28	5.9	J B	38	0.14
STL01800	PCB-21/33	0.63	J B U	38	0.13
38444-85-8	PCB-22	1.8	J	19	0.15
55720-44-0	PCB-23	ND		19	0.13
55702-45-9	PCB-24	ND		19	0.095
55712-37-3	PCB-25	0.19	J	19	0.13
STL01801	PCB-26/29	0.70	J	38	0.13
38444-76-7	PCB-27	ND		19	0.093
16606-02-3	PCB-31	3.6	J B	19	0.13
38444-77-8	PCB-32	0.17	J q U	19	0.082
37680-68-5	PCB-34	ND		19	0.13
37680-69-6	PCB-35	ND		19	0.16
38444-87-0	PCB-36	ND		19	0.14
38444-90-5	PCB-37	ND		19	0.13
53555-66-1	PCB-38	ND		19	0.15
38444-88-1	PCB-39	ND		19	0.14

 CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB201-061213
Lab Sample ID: 320-3015-7
Matrix: Tissue
Lab File ID: 25JN1312D8_15.d
Analysis Method: 1668A
Date Collected: 06/12/2013 16:34
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.44(g)
Date Analyzed: 06/26/2013 05:39
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.34	J q B U	38	0.056
52663-59-9	PCB-41	ND		19	0.069
36559-22-5	PCB-42	0.27	J	19	0.059
70362-46-8	PCB-43	ND		19	0.060
STL01803	PCB-44/47/65	3.7	J B	57	0.052
70362-45-7	PCB-45	0.19	J	19	0.057
41464-47-5	PCB-46	ND		19	0.063
70362-47-9	PCB-48	ND		19	0.056
STL01805	PCB-49/69	3.9	J B	38	0.046
STL01806	PCB-50/53	ND		38	0.050
68194-04-7	PCB-51	ND		19	0.052
35693-99-3	PCB-52	14	J B	19	0.055
15968-05-5	PCB-54	ND		19	0.064
74338-24-2	PCB-55	ND		19	0.15
41464-43-1	PCB-56	1.0	J	19	0.17
70424-67-8	PCB-57	ND		19	0.15
41464-49-7	PCB-58	ND		19	0.15
STL01807	PCB-59/62/75	0.30	J q U	57	0.041
33025-41-1	PCB-60	2.7	J	19	0.16
STL01808	PCB-61/70/74/76	25	J B	77	0.15
74472-34-7	PCB-63	0.52	J	19	0.14
52663-58-8	PCB-64	1.7	J B	19	0.039
32598-10-0	PCB-66	11	J B	19	0.17
73575-53-8	PCB-67	ND		19	0.14
73575-52-7	PCB-68	0.20	J B	19	0.13
41464-42-0	PCB-72	ND		19	0.14
74338-23-1	PCB-73	ND		19	0.044
32598-13-3	PCB-77	ND		1.9	0.17
70362-49-1	PCB-78	ND		19	0.17
41464-48-6	PCB-79	0.58	J q U	19	0.15
33284-52-5	PCB-80	ND		19	0.14
70362-50-4	PCB-81	ND		1.9	0.17
52663-62-4	PCB-82	ND		19	0.64
60145-20-2	PCB-83	ND		19	0.64

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB201-061213 | Lab Sample ID: 320-3015-7

Matrix: Tissue | Lab File ID: 25JN1312D8_15.d

Analysis Method: 1668A | Date Collected: 06/12/2013 16:34

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.44(g) | Date Analyzed: 06/26/2013 05:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	1.3	J	19	0.55
STL01810	PCB-85/116/117	12	J	57	0.44
STL01811	PCB-86/87/97/108/119/125	19	J B	110	0.43
STL01812	PCB-88/91	0.85	J	38	0.46
73575-57-2	PCB-89	ND		19	0.53
STL01813	PCB-90/101/113	51	J B	57	0.43
52663-61-3	PCB-92	11	J	19	0.49
STL01814	PCB-93/100	ND		38	0.46
73575-55-0	PCB-94	ND		19	0.48
38379-99-6	PCB-95	5.7	J B	19	0.46
73575-54-9	PCB-96	ND		19	0.041
STL01843	PCB-98/102	ND		38	0.44
38380-01-7	PCB-99	50	B	19	0.47
60145-21-3	PCB-103	ND		19	0.41
56558-16-8	PCB-104	ND		19	0.050
32598-14-4	PCB-105	25	B	1.9	0.47
70424-69-0	PCB-106	ND		19	0.45
STL01815	PCB-107/124	1.7	J	38	0.42
74472-35-8	PCB-109	5.4	J	19	0.39
STL01826	PCB-110/115	30	J B	38	0.38
39635-32-0	PCB-111	ND		19	0.38
74472-36-9	PCB-112	ND		19	0.35
74472-37-0	PCB-114	1.3	J q U	1.9	0.45
31508-00-6	PCB-118	78	B	1.9	0.43
68194-12-7	PCB-120	ND		19	0.39
56558-18-0	PCB-121	ND		19	0.34
76842-07-4	PCB-122	ND		19	0.49
65510-44-3	PCB-123	0.91	J	1.9	0.44
57465-28-8	PCB-126	ND		1.9	0.49
39635-33-1	PCB-127	ND		19	0.45
STL01816	PCB-128/166	23	J	38	1.1
STL01817	PCB-129/138/163	200	B	57	1.2
52663-66-8	PCB-130	4.6	J	19	1.5
61798-70-7	PCB-131	ND		19	1.4

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB201-061213
Lab Sample ID: 320-3015-7
Matrix: Tissue
Lab File ID: 25JN1312D8_15.d
Analysis Method: 1668A
Date Collected: 06/12/2013 16:34
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.44(g)
Date Analyzed: 06/26/2013 05:39
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	5.5	J B	19	1.3
35694-04-3	PCB-133	4.5	J	19	1.4
STL01818	PCB-134/143	3.1	J	38	1.3
STL01819	PCB-135/151	30	J	38	1.2
38411-22-2	PCB-136	4.4	J	19	0.81
35694-06-5	PCB-137	5.1	J	19	1.3
STL01820	PCB-139/140	2.1	J	38	1.2
52712-04-6	PCB-141	9.1	J	19	1.3
41411-61-4	PCB-142	ND		19	1.3
68194-14-9	PCB-144	2.8	J	19	1.1
74472-40-5	PCB-145	ND		19	0.80
51908-16-8	PCB-146	32		19	1.3
STL01821	PCB-147/149	21	J B	38	1.2
74472-41-6	PCB-148	ND		19	1.1
68194-08-1	PCB-150	ND		19	0.74
68194-09-2	PCB-152	ND		19	0.74
STL01822	PCB-153/168	250	B	38	1.0
60145-22-4	PCB-154	3.6	J	19	1.0
33979-03-2	PCB-155	ND		19	0.80
STL01792	PCB-156/157	14		3.8	0.15
74472-42-7	PCB-158	12	J	19	0.91
39635-35-3	PCB-159	ND		19	0.13
41411-62-5	PCB-160	ND		19	1.1
74472-43-8	PCB-161	ND		19	0.95
39635-34-2	PCB-162	1.1	J	19	0.13
74472-45-0	PCB-164	1.9	J	19	0.93
74472-46-1	PCB-165	ND		19	1.1
52663-72-6	PCB-167	5.4		1.9	0.12
32774-16-6	PCB-169	ND		1.9	0.18
35065-30-6	PCB-170	26	B	19	0.12
STL01823	PCB-171/173	16	J	38	0.11
52663-74-8	PCB-172	4.9	J	19	0.11
38411-25-5	PCB-174	7.1	J B	19	0.12
40186-70-7	PCB-175	2.0	J	19	0.12

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB201-061213 | Lab Sample ID: 320-3015-7

Matrix: Tissue | Lab File ID: 25JN1312D8_15.d

Analysis Method: 1668A | Date Collected: 06/12/2013 16:34

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.44(g) | Date Analyzed: 06/26/2013 05:39

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	2.0	J	19	0.084
52663-70-4	PCB-177	14	J	19	0.11
52663-67-9	PCB-178	19		19	0.12
52663-64-6	PCB-179	15	J	19	0.092
STL01824	PCB-180/193	60	B	38	0.090
74472-47-2	PCB-181	ND		19	0.096
60145-23-5	PCB-182	ND		19	0.11
52663-69-1	PCB-183	32	B	19	0.085
74472-48-3	PCB-184	0.23	J	19	0.092
52712-05-7	PCB-185	ND		19	0.10
74472-49-4	PCB-186	ND		19	0.088
52663-68-0	PCB-187	73	B	19	0.11
74487-85-7	PCB-188	ND		19	0.081
39635-31-9	PCB-189	1.2	J	1.9	0.11
41411-64-7	PCB-190	4.3	J	19	0.084
74472-50-7	PCB-191	1.0	J q U	19	0.081
74472-51-8	PCB-192	ND		19	0.084
35694-08-7	PCB-194	9.4	J	19	0.092
52663-78-2	PCB-195	4.4	J	19	0.086
42740-50-1	PCB-196	7.3	J	19	0.13
33091-17-7	PCB-197	1.2	J	19	0.087
STL01825	PCB-198/199	15	J	38	0.13
52663-73-7	PCB-200	0.81	J	19	0.099
40186-71-8	PCB-201	3.9	J	19	0.092
2136-99-4	PCB-202	7.1	J	19	0.093
52663-76-0	PCB-203	8.7	J	19	0.12
74472-52-9	PCB-204	ND		19	0.096
74472-53-0	PCB-205	0.72	J	19	0.084
40186-72-9	PCB-206	7.9	J	19	0.56
52663-79-3	PCB-207	0.78	J	19	0.35
52663-77-1	PCB-208	3.0	J	19	0.35
2051-24-3	PCB-209	4.5	J B	19	0.10
27323-18-8	Total Monochlorobiphenyls	ND		190	0.29
25512-42-9	Total Dichlorobiphenyls	3.8	J B U	190	1.8

02/13/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB201-061213
Lab Sample ID: 320-3015-7
Matrix: Tissue
Lab File ID: 25JN1312D8_15.d
Analysis Method: 1668A
Date Collected: 06/12/2013 16:34
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.44(g)
Date Analyzed: 06/26/2013 05:39
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	14	J q B	190	0.14
26914-33-0	Total Tetrachlorobiphenyls	66	J q B	190	0.10
25429-29-2	Total Pentachlorobiphenyls	290	q B	190	0.43
26601-64-9	Total Hexachlorobiphenyls	640	B	190	0.96
28655-71-2	Total Heptachlorobiphenyls	280	q B	190	0.10
55722-26-4	Total Octachlorobiphenyls	59	J	190	0.10
53742-07-7	Total Nonachlorobiphenyls	12	J	190	0.42

14408/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB202-061213 | Lab Sample ID: 320-3015-8

Matrix: Tissue | Lab File ID: 25JN1312D8_16.d

Analysis Method: 1668A | Date Collected: 06/12/2013 16:56

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 06:53

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.25
2051-61-8	PCB-2	ND		20	0.21
2051-62-9	PCB-3	ND		20	0.19
13029-08-8	PCB-4	ND		20	2.0
16605-91-7	PCB-5	ND		20	1.4
25569-80-6	PCB-6	ND		20	1.4
33284-50-3	PCB-7	ND		20	1.3
34883-43-7	PCB-8	ND		20	1.4
34883-39-1	PCB-9	ND		20	1.5
33146-45-1	PCB-10	ND		20	1.2
2050-67-1	PCB-11	3.6	J B U	20	1.4
STL01797	PCB-12/13	ND		39	1.4
34883-41-5	PCB-14	ND		20	1.2
2050-68-2	PCB-15	ND		20	1.4
38444-78-9	PCB-16	0.23	J	20	0.15
37680-66-3	PCB-17	0.25	J	20	0.11
STL01798	PCB-18/30	0.55	J B	39	0.094
38444-73-4	PCB-19	ND		20	0.17
STL01799	PCB-20/28	4.4	J B	39	0.10
STL01800	PCB-21/33	0.34	J q B U	39	0.093
38444-85-8	PCB-22	1.3	J	20	0.11
55720-44-0	PCB-23	ND		20	0.092
55702-45-9	PCB-24	ND		20	0.084
55712-37-3	PCB-25	0.12	J q U	20	0.093
STL01801	PCB-26/29	0.49	J	39	0.094
38444-76-7	PCB-27	ND		20	0.083
16606-02-3	PCB-31	2.7	J B U	20	0.092
38444-77-8	PCB-32	0.11	J	20	0.073
37680-68-5	PCB-34	ND		20	0.094
37680-69-6	PCB-35	ND		20	0.11
38444-87-0	PCB-36	ND		20	0.098
38444-90-5	PCB-37	0.19	J	20	0.10
53555-66-1	PCB-38	ND		20	0.11
38444-88-1	PCB-39	ND		20	0.10

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB202-061213
Lab Sample ID: 320-3015-8
Matrix: Tissue
Lab File ID: 25JN1312D8_16.d
Analysis Method: 1668A
Date Collected: 06/12/2013 16:56
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.14(g)
Date Analyzed: 06/26/2013 06:53
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.23	J B U	39	0.044
52663-59-9	PCB-41	ND		20	0.054
36559-22-5	PCB-42	0.19	J	20	0.046
70362-46-8	PCB-43	ND		20	0.047
STL01803	PCB-44/47/65	2.0	J q B U	59	0.041
70362-45-7	PCB-45	ND		20	0.045
41464-47-5	PCB-46	ND		20	0.050
70362-47-9	PCB-48	ND		20	0.044
STL01805	PCB-49/69	2.8	J B	39	0.036
STL01806	PCB-50/53	ND		39	0.040
68194-04-7	PCB-51	ND		20	0.041
35693-99-3	PCB-52	8.4	J B	20	0.044
15968-05-5	PCB-54	ND		20	0.049
74338-24-2	PCB-55	ND		20	0.15
41464-43-1	PCB-56	0.59	J	20	0.17
70424-67-8	PCB-57	ND		20	0.15
41464-49-7	PCB-58	ND		20	0.15
STL01807	PCB-59/62/75	0.20	J q U	59	0.033
33025-41-1	PCB-60	2.5	J	20	0.16
STL01808	PCB-61/70/74/76	20	J B	79	0.15
74472-34-7	PCB-63	0.39	J	20	0.14
52663-58-8	PCB-64	1.2	J B	20	0.031
32598-10-0	PCB-66	11	J B	20	0.17
73575-53-8	PCB-67	ND		20	0.14
73575-52-7	PCB-68	ND		20	0.13
41464-42-0	PCB-72	ND		20	0.14
74338-23-1	PCB-73	ND		20	0.035
32598-13-3	PCB-77	ND		2.0	0.17
70362-49-1	PCB-78	ND		20	0.17
41464-48-6	PCB-79	ND		20	0.15
33284-52-5	PCB-80	ND		20	0.14
70362-50-4	PCB-81	ND		2.0	0.17
52663-62-4	PCB-82	ND		20	0.53
60145-20-2	PCB-83	ND		20	0.53

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB202-061213
Lab Sample ID: 320-3015-8
Matrix: Tissue
Lab File ID: 25JN1312D8_16.d
Analysis Method: 1668A
Date Collected: 06/12/2013 16:56
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.14(g)
Date Analyzed: 06/26/2013 06:53
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	ND		20	0.46
STL01810	PCB-85/116/117	13	J	59	0.37
STL01811	PCB-86/87/97/108/119/125	13	J B	120	0.36
STL01812	PCB-88/91	ND		39	0.38
73575-57-2	PCB-89	ND		20	0.44
STL01813	PCB-90/101/113	43	J B	59	0.36
52663-61-3	PCB-92	8.3	J	20	0.41
STL01814	PCB-93/100	ND		39	0.39
73575-55-0	PCB-94	ND		20	0.40
38379-99-6	PCB-95	3.1	J B	20	0.38
73575-54-9	PCB-96	ND		20	0.036
STL01843	PCB-98/102	ND		39	0.37
38380-01-7	PCB-99	52	B	20	0.40
60145-21-3	PCB-103	ND		20	0.34
56558-16-8	PCB-104	ND		20	0.047
32598-14-4	PCB-105	30	B	2.0	0.39
70424-69-0	PCB-106	ND		20	0.37
STL01815	PCB-107/124	1.7	J	39	0.35
74472-35-8	PCB-109	4.9	J	20	0.33
STL01826	PCB-110/115	19	J B	39	0.32
39635-32-0	PCB-111	ND		20	0.31
74472-36-9	PCB-112	ND		20	0.30
74472-37-0	PCB-114	2.1		2.0	0.36
31508-00-6	PCB-118	96	B	2.0	0.35
68194-12-7	PCB-120	ND		20	0.32
56558-18-0	PCB-121	ND		20	0.29
76842-07-4	PCB-122	ND		20	0.41
65510-44-3	PCB-123	1.2	J	2.0	0.37
57465-28-8	PCB-126	ND		2.0	0.39
39635-33-1	PCB-127	ND		20	0.37
STL01816	PCB-128/166	27	J	39	0.79
STL01817	PCB-129/138/163	210	B	59	0.86
52663-66-8	PCB-130	2.3	J	20	1.1
61798-70-7	PCB-131	ND		20	1.0

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB202-061213
Lab Sample ID: 320-3015-8
Matrix: Tissue
Lab File ID: 25JN1312D8_16.d
Analysis Method: 1668A
Date Collected: 06/12/2013 16:56
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.14(g)
Date Analyzed: 06/26/2013 06:53
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	2.3	J B	20	0.96
35694-04-3	PCB-133	3.8	J	20	0.98
STL01818	PCB-134/143	ND		39	0.96
STL01819	PCB-135/151	25	J	39	0.84
38411-22-2	PCB-136	2.6	J	20	0.58
35694-06-5	PCB-137	8.5	J	20	0.92
STL01820	PCB-139/140	2.7	J	39	0.83
52712-04-6	PCB-141	13	J	20	0.93
41411-61-4	PCB-142	ND		20	0.95
68194-14-9	PCB-144	2.2	J	20	0.82
74472-40-5	PCB-145	ND		20	0.57
51908-16-8	PCB-146	28		20	0.91
STL01821	PCB-147/149	9.8	J B	39	0.82
74472-41-6	PCB-148	ND		20	0.79
68194-08-1	PCB-150	ND		20	0.53
68194-09-2	PCB-152	ND		20	0.53
STL01822	PCB-153/168	260	B	39	0.72
60145-22-4	PCB-154	3.1	J	20	0.72
33979-03-2	PCB-155	ND		20	0.60
STL01792	PCB-156/157	22		3.9	0.15
74472-42-7	PCB-158	15	J	20	0.65
39635-35-3	PCB-159	ND		20	0.13
41411-62-5	PCB-160	ND		20	0.75
74472-43-8	PCB-161	ND		20	0.68
39635-34-2	PCB-162	0.87	J	20	0.13
74472-45-0	PCB-164	1.3	J	20	0.67
74472-46-1	PCB-165	ND		20	0.77
52663-72-6	PCB-167	7.6		2.0	0.11
32774-16-6	PCB-169	ND		2.0	0.17
35065-30-6	PCB-170	31	B	20	0.11
STL01823	PCB-171/173	15	J	39	0.10
52663-74-8	PCB-172	5.2	J	20	0.10
38411-25-5	PCB-174	5.9	J B	20	0.11
40186-70-7	PCB-175	1.4	J q U	20	0.12

G27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB202-061213 | Lab Sample ID: 320-3015-8

Matrix: Tissue | Lab File ID: 25JN1312D8_16.d

Analysis Method: 1668A | Date Collected: 06/12/2013 16:56

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 06:53

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.52	J q U	20	0.087
52663-70-4	PCB-177	4.8	J	20	0.11
52663-67-9	PCB-178	15	J	20	0.13
52663-64-6	PCB-179	11	J	20	0.095
STL01824	PCB-180/193	71	B	39	0.084
74472-47-2	PCB-181	ND		20	0.089
60145-23-5	PCB-182	ND		20	0.11
52663-69-1	PCB-183	31	B	20	0.079
74472-48-3	PCB-184	0.22	J q U	20	0.095
52712-05-7	PCB-185	ND		20	0.097
74472-49-4	PCB-186	ND		20	0.091
52663-68-0	PCB-187	49	B	20	0.12
74487-85-7	PCB-188	ND		20	0.083
39635-31-9	PCB-189	1.8	J	2.0	0.099
41411-64-7	PCB-190	5.3	J	20	0.077
74472-50-7	PCB-191	1.3	J	20	0.075
74472-51-8	PCB-192	ND		20	0.078
35694-08-7	PCB-194	13	J	20	0.096
52663-78-2	PCB-195	5.8	J	20	0.090
42740-50-1	PCB-196	9.3	J	20	0.12
33091-17-7	PCB-197	1.3	J	20	0.080
STL01825	PCB-198/199	19	J	39	0.12
52663-73-7	PCB-200	0.97	J	20	0.092
40186-71-8	PCB-201	4.1	J	20	0.085
2136-99-4	PCB-202	7.6	J	20	0.082
52663-76-0	PCB-203	13	J	20	0.11
74472-52-9	PCB-204	ND		20	0.088
74472-53-0	PCB-205	0.80	J q U	20	0.092
40186-72-9	PCB-206	12	J	20	0.76
52663-79-3	PCB-207	ND		20	0.45
52663-77-1	PCB-208	4.2	J	20	0.43
2051-24-3	PCB-209	7.4	J B	20	0.11
27323-18-8	Total Monochlorobiphenyls	ND		200	0.25
25512-42-9	Total Dichlorobiphenyls	3.6	J B U	200	1.4

CR 7/30/13

FORM I

DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB202-061213 | Lab Sample ID: 320-3015-8

Matrix: Tissue | Lab File ID: 25JN1312D8_16.d

Analysis Method: 1668A | Date Collected: 06/12/2013 16:56

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 06:53

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	11	J q B	200	0.10
26914-33-0	Total Tetrachlorobiphenyls	50	J q B	200	0.097
25429-29-2	Total Pentachlorobiphenyls	290	B	200	0.36
26601-64-9	Total Hexachlorobiphenyls	640	B	200	0.69
28655-71-2	Total Heptachlorobiphenyls	250	q B	200	0.097
55722-26-4	Total Octachlorobiphenyls	74	J q	200	0.097
53742-07-7	Total Nonachlorobiphenyls	17	J	200	0.55

MN 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB203-061213 | Lab Sample ID: 320-3015-9

Matrix: Tissue | Lab File ID: 25JN1312D8_17.d

Analysis Method: 1668A | Date Collected: 06/12/2013 17:28

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.34(g) | Date Analyzed: 06/26/2013 08:06

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.19
2051-61-8	PCB-2	ND		19	0.16
2051-62-9	PCB-3	ND		19	0.15
13029-08-8	PCB-4	ND		19	1.1
16605-91-7	PCB-5	ND		19	0.85
25569-80-6	PCB-6	ND		19	0.84
33284-50-3	PCB-7	ND		19	0.77
34883-43-7	PCB-8	ND		19	0.82
34883-39-1	PCB-9	ND		19	0.88
33146-45-1	PCB-10	ND		19	0.75
2050-67-1	PCB-11	3.2	J q B U	19	0.86
STL01797	PCB-12/13	ND		39	0.87
34883-41-5	PCB-14	ND		19	0.75
2050-68-2	PCB-15	ND		19	0.92
38444-78-9	PCB-16	0.24	J	19	0.086
37680-66-3	PCB-17	0.25	J	19	0.065
STL01798	PCB-18/30	0.84	J B	39	0.055
38444-73-4	PCB-19	ND		19	0.090
STL01799	PCB-20/28	5.2	J B	39	0.13
STL01800	PCB-21/33	0.42	J B U	39	0.12
38444-85-8	PCB-22	1.4	J q U	19	0.14
55720-44-0	PCB-23	ND		19	0.12
55702-45-9	PCB-24	ND		19	0.050
55712-37-3	PCB-25	ND		19	0.12
STL01801	PCB-26/29	0.55	J	39	0.12
38444-76-7	PCB-27	ND		19	0.049
16606-02-3	PCB-31	3.3	J B	19	0.12
38444-77-8	PCB-32	0.14	J	19	0.043
37680-68-5	PCB-34	ND		19	0.12
37680-69-6	PCB-35	ND		19	0.15
38444-87-0	PCB-36	ND		19	0.13
38444-90-5	PCB-37	ND		19	0.14
53555-66-1	PCB-38	ND		19	0.14
38444-88-1	PCB-39	ND		19	0.13

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB203-061213
Lab Sample ID: 320-3015-9
Matrix: Tissue
Lab File ID: 25JN1312D8_17.d
Analysis Method: 1668A
Date Collected: 06/12/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.34(g)
Date Analyzed: 06/26/2013 08:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.36	J B U	39	0.048
52663-59-9	PCB-41	ND		19	0.059
36559-22-5	PCB-42	0.30	J	19	0.050
70362-46-8	PCB-43	ND		19	0.051
STL01803	PCB-44/47/65	4.3	J q B U	58	0.045
70362-45-7	PCB-45	ND		19	0.049
41464-47-5	PCB-46	ND		19	0.054
70362-47-9	PCB-48	ND		19	0.048
STL01805	PCB-49/69	4.5	J B	39	0.039
STL01806	PCB-50/53	ND		39	0.043
68194-04-7	PCB-51	ND		19	0.044
35693-99-3	PCB-52	13	J B	19	0.047
15968-05-5	PCB-54	ND		19	0.043
74338-24-2	PCB-55	ND		19	0.18
41464-43-1	PCB-56	0.72	J	19	0.20
70424-67-8	PCB-57	ND		19	0.18
41464-49-7	PCB-58	ND		19	0.18
STL01807	PCB-59/62/75	0.31	J q U	58	0.035
33025-41-1	PCB-60	2.8	J	19	0.19
STL01808	PCB-61/70/74/76	21	J B	77	0.18
74472-34-7	PCB-63	0.64	J	19	0.17
52663-58-8	PCB-64	0.84	J q B U	19	0.033
32598-10-0	PCB-66	12	J B	19	0.20
73575-53-8	PCB-67	ND		19	0.17
73575-52-7	PCB-68	ND		19	0.16
41464-42-0	PCB-72	ND		19	0.17
74338-23-1	PCB-73	ND		19	0.038
32598-13-3	PCB-77	ND		1.9	0.21
70362-49-1	PCB-78	ND		19	0.20
41464-48-6	PCB-79	ND		19	0.18
33284-52-5	PCB-80	ND		19	0.17
70362-50-4	PCB-81	ND		1.9	0.21
52663-62-4	PCB-82	0.88	J	19	0.69
60145-20-2	PCB-83	ND		19	0.69

C 27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB203-061213
Lab Sample ID: 320-3015-9
Matrix: Tissue
Lab File ID: 25JN1312D8_17.d
Analysis Method: 1668A
Date Collected: 06/12/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.34(g)
Date Analyzed: 06/26/2013 08:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	1.5	J	19	0.59
STL01810	PCB-85/116/117	15	J	58	0.47
STL01811	PCB-86/87/97/108/119/125	19	J B	120	0.47
STL01812	PCB-88/91	1.1	J	39	0.49
73575-57-2	PCB-89	ND		19	0.57
STL01813	PCB-90/101/113	64	B	58	0.47
52663-61-3	PCB-92	12	J	19	0.53
STL01814	PCB-93/100	ND		39	0.50
73575-55-0	PCB-94	ND		19	0.52
38379-99-6	PCB-95	5.3	J B	19	0.49
73575-54-9	PCB-96	ND		19	0.032
STL01843	PCB-98/102	ND		39	0.47
38380-01-7	PCB-99	59	B	19	0.51
60145-21-3	PCB-103	ND		19	0.44
56558-16-8	PCB-104	ND		19	0.040
32598-14-4	PCB-105	26	B	1.9	0.50
70424-69-0	PCB-106	ND		19	0.48
STL01815	PCB-107/124	1.4	J	39	0.46
74472-35-8	PCB-109	5.6	J	19	0.42
STL01826	PCB-110/115	23	J B	39	0.41
39635-32-0	PCB-111	ND		19	0.40
74472-36-9	PCB-112	ND		19	0.38
74472-37-0	PCB-114	1.8	J	1.9	0.47
31508-00-6	PCB-118	82	B	1.9	0.46
68194-12-7	PCB-120	0.67	J	19	0.42
56558-18-0	PCB-121	ND		19	0.37
76842-07-4	PCB-122	ND		19	0.52
65510-44-3	PCB-123	1.1	J	1.9	0.49
57465-28-8	PCB-126	ND		1.9	0.52
39635-33-1	PCB-127	ND		19	0.48
STL01816	PCB-128/166	32	J	39	1.4
STL01817	PCB-129/138/163	310	B	58	1.6
52663-66-8	PCB-130	6.1	J	19	2.0
61798-70-7	PCB-131	ND		19	1.9

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB203-061213
Lab Sample ID: 320-3015-9
Matrix: Tissue
Lab File ID: 25JN1312D8_17.d
Analysis Method: 1668A
Date Collected: 06/12/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.34(g)
Date Analyzed: 06/26/2013 08:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	6.9	J B	19	1.7
35694-04-3	PCB-133	6.7	J	19	1.8
STL01818	PCB-134/143	3.7	J	39	1.7
STL01819	PCB-135/151	44		39	1.5
38411-22-2	PCB-136	5.4	J	19	1.1
35694-06-5	PCB-137	6.5	J	19	1.7
STL01820	PCB-139/140	3.3	J	39	1.5
52712-04-6	PCB-141	16	J	19	1.7
41411-61-4	PCB-142	ND		19	1.7
68194-14-9	PCB-144	4.1	J	19	1.5
74472-40-5	PCB-145	ND		19	1.0
51908-16-8	PCB-146	56		19	1.7
STL01821	PCB-147/149	28	J B	39	1.5
74472-41-6	PCB-148	ND		19	1.4
68194-08-1	PCB-150	ND		19	0.96
68194-09-2	PCB-152	ND		19	0.96
STL01822	PCB-153/168	400	B	39	1.3
60145-22-4	PCB-154	5.2	J	19	1.3
33979-03-2	PCB-155	ND		19	1.1
STL01792	PCB-156/157	19		3.9	0.21
74472-42-7	PCB-158	15	J	19	1.2
39635-35-3	PCB-159	ND		19	0.18
41411-62-5	PCB-160	ND		19	1.4
74472-43-8	PCB-161	ND		19	1.2
39635-34-2	PCB-162	1.6	J	19	0.17
74472-45-0	PCB-164	2.5	J	19	1.2
74472-46-1	PCB-165	ND		19	1.4
52663-72-6	PCB-167	7.6		1.9	0.15
32774-16-6	PCB-169	ND		1.9	0.22
35065-30-6	PCB-170	43	B J	19	0.14
STL01823	PCB-171/173	25	J	39	0.13
52663-74-8	PCB-172	8.2	J	19	0.13
38411-25-5	PCB-174	11	J B	19	0.14
40186-70-7	PCB-175	3.5	J	19	0.12

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB203-061213 | Lab Sample ID: 320-3015-9

Matrix: Tissue | Lab File ID: 25JN1312D8_17.d

Analysis Method: 1668A | Date Collected: 06/12/2013 17:28

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.34(g) | Date Analyzed: 06/26/2013 08:06

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	2.9	J J	19	0.087
52663-70-4	PCB-177	20		19	0.13
52663-67-9	PCB-178	30		19	0.13
52663-64-6	PCB-179	23		19	0.095
STL01824	PCB-180/193	99	B	39	0.11
74472-47-2	PCB-181	ND	J	19	0.11
60145-23-5	PCB-182	0.40	J J	19	0.11
52663-69-1	PCB-183	53	B	19	0.10
74472-48-3	PCB-184	0.36	J	19	0.095
52712-05-7	PCB-185	ND	J	19	0.12
74472-49-4	PCB-186	ND		19	0.091
52663-68-0	PCB-187	97	B J	19	0.12
74487-85-7	PCB-188	0.21	J	19	0.080
39635-31-9	PCB-189	2.4		1.9	0.11
41411-64-7	PCB-190	7.4	J J	19	0.098
74472-50-7	PCB-191	1.5	J q J	19	0.095
74472-51-8	PCB-192	ND	J	19	0.099
35694-08-7	PCB-194	15	J	19	0.097
52663-78-2	PCB-195	7.3	J	19	0.090
42740-50-1	PCB-196	13	J	19	0.16
33091-17-7	PCB-197	2.0	J	19	0.11
STL01825	PCB-198/199	28	J	39	0.17
52663-73-7	PCB-200	1.3	J	19	0.12
40186-71-8	PCB-201	6.3	J	19	0.12
2136-99-4	PCB-202	11	J	19	0.10
52663-76-0	PCB-203	16	J	19	0.15
74472-52-9	PCB-204	ND		19	0.12
74472-53-0	PCB-205	1.5	J	19	0.10
40186-72-9	PCB-206	13	J q J	19	0.72
52663-79-3	PCB-207	1.3	J	19	0.43
52663-77-1	PCB-208	5.5	J	19	0.41
2051-24-3	PCB-209	8.6	J B	19	0.10
27323-18-8	Total Monochlorobiphenyls	ND		190	0.19
25512-42-9	Total Dichlorobiphenyls	3.2	J q B J	190	0.85

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB203-061213
Lab Sample ID: 320-3015-9
Matrix: Tissue
Lab File ID: 25JN1312D8_17.d
Analysis Method: 1668A
Date Collected: 06/12/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.34(g)
Date Analyzed: 06/26/2013 08:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	12	J q B	190	0.11
26914-33-0	Total Tetrachlorobiphenyls	61	J q B	190	0.11
25429-29-2	Total Pentachlorobiphenyls	320	B	190	0.46
26601-64-9	Total Hexachlorobiphenyls	980	B	190	1.3
28655-71-2	Total Heptachlorobiphenyls	430	q ~~B~~ J	190	0.11
55722-26-4	Total Octachlorobiphenyls	100	J	190	0.12
53742-07-7	Total Nonachlorobiphenyls	20	J q	190	0.52

LMN 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB204-061213 | Lab Sample ID: 320-3015-10

Matrix: Tissue | Lab File ID: 25JN1312D8_18.d

Analysis Method: 1668A | Date Collected: 06/12/2013 17:53

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.34(g) | Date Analyzed: 06/26/2013 09:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.16
2051-61-8	PCB-2	ND		19	0.14
2051-62-9	PCB-3	ND		19	0.12
13029-08-8	PCB-4	ND		19	1.5
16605-91-7	PCB-5	ND		19	1.2
25569-80-6	PCB-6	ND		19	1.2
33284-50-3	PCB-7	ND		19	1.1
34883-43-7	PCB-8	ND		19	1.2
34883-39-1	PCB-9	ND		19	1.3
33146-45-1	PCB-10	ND		19	1.0
2050-67-1	PCB-11	7.9	J q B U	19	1.3
STL01797	PCB-12/13	ND		39	1.3
34883-41-5	PCB-14	ND		19	1.1
2050-68-2	PCB-15	ND		19	1.3
38444-78-9	PCB-16	0.31	J	19	0.14
37680-66-3	PCB-17	0.29	J	19	0.11
STL01798	PCB-18/30	0.49	J B	39	0.093
38444-73-4	PCB-19	ND		19	0.16
STL01799	PCB-20/28	5.2	J B	39	0.12
STL01800	PCB-21/33	0.55	J q B U	39	0.11
38444-85-8	PCB-22	2.0	J	19	0.13
55720-44-0	PCB-23	ND		19	0.11
55702-45-9	PCB-24	ND		19	0.083
55712-37-3	PCB-25	0.15	J q U	19	0.11
STL01801	PCB-26/29	0.66	J	39	0.11
38444-76-7	PCB-27	ND		19	0.082
16606-02-3	PCB-31	3.6	J B	19	0.11
38444-77-8	PCB-32	0.14	J	19	0.072
37680-68-5	PCB-34	ND		19	0.11
37680-69-6	PCB-35	ND		19	0.13
38444-87-0	PCB-36	ND		19	0.12
38444-90-5	PCB-37	0.24	J q U	19	0.12
53555-66-1	PCB-38	ND		19	0.13
38444-88-1	PCB-39	ND		19	0.12

CL 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB204-061213
Lab Sample ID: 320-3015-10
Matrix: Tissue
Lab File ID: 25JN1312D8_18.d
Analysis Method: 1668A
Date Collected: 06/12/2013 17:53
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.34(g)
Date Analyzed: 06/26/2013 09:19
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.49	J B U	39	0.042
52663-59-9	PCB-41	ND		19	0.052
36559-22-5	PCB-42	0.42	J q U	19	0.044
70362-46-8	PCB-43	ND		19	0.045
STL01803	PCB-44/47/65	5.3	J B	58	0.040
70362-45-7	PCB-45	ND		19	0.044
41464-47-5	PCB-46	ND		19	0.048
70362-47-9	PCB-48	0.20	J	19	0.042
STL01805	PCB-49/69	5.8	J B	39	0.035
STL01806	PCB-50/53	ND		39	0.038
68194-04-7	PCB-51	ND		19	0.039
35693-99-3	PCB-52	14	J B	19	0.042
15968-05-5	PCB-54	ND		19	0.046
74338-24-2	PCB-55	ND		19	0.20
41464-43-1	PCB-56	0.93	J	19	0.22
70424-67-8	PCB-57	ND		19	0.20
41464-49-7	PCB-58	ND		19	0.20
STL01807	PCB-59/62/75	0.24	J	58	0.031
33025-41-1	PCB-60	4.4	J	19	0.21
STL01808	PCB-61/70/74/76	28	J B	77	0.20
74472-34-7	PCB-63	1.1	J	19	0.18
52663-58-8	PCB-64	2.0	J B	19	0.030
32598-10-0	PCB-66	17	J B	19	0.22
73575-53-8	PCB-67	ND		19	0.19
73575-52-7	PCB-68	0.36	J q B U	19	0.18
41464-42-0	PCB-72	ND		19	0.19
74338-23-1	PCB-73	ND		19	0.033
32598-13-3	PCB-77	ND		1.9	0.23
70362-49-1	PCB-78	ND		19	0.22
41464-48-6	PCB-79	0.71	J	19	0.20
33284-52-5	PCB-80	ND		19	0.19
70362-50-4	PCB-81	ND		1.9	0.23
52663-62-4	PCB-82	ND		19	0.86
60145-20-2	PCB-83	ND		19	0.86

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB204-061213 | Lab Sample ID: 320-3015-10

Matrix: Tissue | Lab File ID: 25JN1312D8_18.d

Analysis Method: 1668A | Date Collected: 06/12/2013 17:53

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.34(g) | Date Analyzed: 06/26/2013 09:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.97	J	19	0.75
STL01810	PCB-85/116/117	18	J	58	0.60
STL01811	PCB-86/87/97/108/119/125	24	J B	120	0.58
STL01812	PCB-88/91	1.2	J	39	0.62
73575-57-2	PCB-89	ND		19	0.71
STL01813	PCB-90/101/113	84	B	58	0.59
52663-61-3	PCB-92	16	J	19	0.67
STL01814	PCB-93/100	ND		39	0.62
73575-55-0	PCB-94	ND		19	0.65
38379-99-6	PCB-95	4.3	J B	19	0.62
73575-54-9	PCB-96	ND		19	0.033
STL01843	PCB-98/102	ND		39	0.59
38380-01-7	PCB-99	79	B	19	0.64
60145-21-3	PCB-103	ND		19	0.56
56558-16-8	PCB-104	ND		19	0.042
32598-14-4	PCB-105	32	B	1.9	0.62
70424-69-0	PCB-106	ND		19	0.60
STL01815	PCB-107/124	1.9	J	39	0.57
74472-35-8	PCB-109	8.5	J	19	0.53
STL01826	PCB-110/115	27	J B	39	0.52
39635-32-0	PCB-111	ND		19	0.51
74472-36-9	PCB-112	ND		19	0.48
74472-37-0	PCB-114	2.3		1.9	0.59
31508-00-6	PCB-118	120	B	1.9	0.58
68194-12-7	PCB-120	ND		19	0.52
56558-18-0	PCB-121	ND		19	0.46
76842-07-4	PCB-122	ND		19	0.66
65510-44-3	PCB-123	1.4	J	1.9	0.60
57465-28-8	PCB-126	ND		1.9	0.64
39635-33-1	PCB-127	ND		19	0.61
STL01816	PCB-128/166	43		39	1.9
STL01817	PCB-129/138/163	430	B	58	2.1
52663-66-8	PCB-130	11	J	19	2.6
61798-70-7	PCB-131	ND		19	2.5

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB204-061213 | Lab Sample ID: 320-3015-10

Matrix: Tissue | Lab File ID: 25JN1312D8_18.d

Analysis Method: 1668A | Date Collected: 06/12/2013 17:53

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.34(g) | Date Analyzed: 06/26/2013 09:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	7.0	J B	19	2.3
35694-04-3	PCB-133	8.5	J	19	2.4
STL01818	PCB-134/143	3.0	J	39	2.3
STL01819	PCB-135/151	49		39	2.0
38411-22-2	PCB-136	3.9	J	19	1.4
35694-06-5	PCB-137	17	J	19	2.2
STL01820	PCB-139/140	5.1	J	39	2.0
52712-04-6	PCB-141	31		19	2.2
41411-61-4	PCB-142	ND		19	2.3
68194-14-9	PCB-144	4.4	J	19	2.0
74472-40-5	PCB-145	ND		19	1.4
51908-16-8	PCB-146	74		19	2.2
STL01821	PCB-147/149	39	B	39	2.0
74472-41-6	PCB-148	ND		19	1.9
68194-08-1	PCB-150	ND		19	1.3
68194-09-2	PCB-152	ND		19	1.3
STL01822	PCB-153/168	550	B	39	1.7
60145-22-4	PCB-154	5.9	J	19	1.7
33979-03-2	PCB-155	ND		19	1.4
STL01792	PCB-156/157	35		3.9	0.24
74472-42-7	PCB-158	22		19	1.6
39635-35-3	PCB-159	ND		19	0.21
41411-62-5	PCB-160	ND		19	1.8
74472-43-8	PCB-161	ND		19	1.6
39635-34-2	PCB-162	2.5	J	19	0.20
74472-45-0	PCB-164	3.1	J	19	1.6
74472-46-1	PCB-165	ND		19	1.8
52663-72-6	PCB-167	12		1.9	0.19
32774-16-6	PCB-169	ND		1.9	0.26
35065-30-6	PCB-170	62	B	19	0.15
STL01823	PCB-171/173	27	J	39	0.15
52663-74-8	PCB-172	12	J	19	0.15
38411-25-5	PCB-174	13	J B	19	0.15
40186-70-7	PCB-175	3.8	J	19	0.16

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB204-061213 | Lab Sample ID: 320-3015-10

Matrix: Tissue | Lab File ID: 25JN1312D8_18.d

Analysis Method: 1668A | Date Collected: 06/12/2013 17:53

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.34(g) | Date Analyzed: 06/26/2013 09:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	2.5	J	19	0.11
52663-70-4	PCB-177	25		19	0.15
52663-67-9	PCB-178	30		19	0.16
52663-64-6	PCB-179	18	J	19	0.12
STL01824	PCB-180/193	150	B	39	0.12
74472-47-2	PCB-181	ND		19	0.13
60145-23-5	PCB-182	ND		19	0.15
52663-69-1	PCB-183	65	B	19	0.11
74472-48-3	PCB-184	0.82	J	19	0.12
52712-05-7	PCB-185	ND		19	0.14
74472-49-4	PCB-186	ND		19	0.12
52663-68-0	PCB-187	130	B	19	0.15
74487-85-7	PCB-188	0.28	J	19	0.11
39635-31-9	PCB-189	2.7		1.9	0.086
41411-64-7	PCB-190	10	J	19	0.11
74472-50-7	PCB-191	2.4	J	19	0.11
74472-51-8	PCB-192	ND		19	0.11
35694-08-7	PCB-194	23		19	0.094
52663-78-2	PCB-195	11	J	19	0.087
42740-50-1	PCB-196	18	J	19	0.14
33091-17-7	PCB-197	2.7	J	19	0.092
STL01825	PCB-198/199	39		39	0.14
52663-73-7	PCB-200	1.6	J	19	0.11
40186-71-8	PCB-201	7.4	J	19	0.097
2136-99-4	PCB-202	14	J	19	0.095
52663-76-0	PCB-203	24		19	0.13
74472-52-9	PCB-204	ND		19	0.10
74472-53-0	PCB-205	1.9	J	19	0.090
40186-72-9	PCB-206	21		19	0.71
52663-79-3	PCB-207	2.3	J	19	0.44
52663-77-1	PCB-208	7.5	J	19	0.44
2051-24-3	PCB-209	11	J B	19	0.095
27323-18-8	Total Monochlorobiphenyls	ND		190	0.16
25512-42-9	Total Dichlorobiphenyls	7.9	J q BU	190	1.2

FORM I 1668A

C27/30/B

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB204-061213
Lab Sample ID: 320-3015-10
Matrix: Tissue
Lab File ID: 25JN1312D8_18.d
Analysis Method: 1668A
Date Collected: 06/12/2013 17:53
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.34(g)
Date Analyzed: 06/26/2013 09:19
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	14	J q B	190	0.11
26914-33-0	Total Tetrachlorobiphenyls	80	J q B	190	0.12
25429-29-2	Total Pentachlorobiphenyls	420	B	190	0.58
26601-64-9	Total Hexachlorobiphenyls	1300	B	190	1.6
28655-71-2	Total Heptachlorobiphenyls	560	B	190	0.13
55722-26-4	Total Octachlorobiphenyls	140	J	190	0.11
53742-07-7	Total Nonachlorobiphenyls	31	J	190	0.53

1-1408/04/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB205-061213
Lab Sample ID: 320-3015-11
Matrix: Tissue
Lab File ID: 25JN1312D8_19.d
Analysis Method: 1668A
Date Collected: 06/12/2013 18:20
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.26(g)
Date Analyzed: 06/26/2013 10:32
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.20
2051-61-8	PCB-2	ND		19	0.17
2051-62-9	PCB-3	ND		19	0.16
13029-08-8	PCB-4	ND		19	1.8
16605-91-7	PCB-5	ND		19	1.1
25569-80-6	PCB-6	ND		19	1.1
33284-50-3	PCB-7	ND		19	0.98
34883-43-7	PCB-8	ND		19	1.0
34883-39-1	PCB-9	ND		19	1.1
33146-45-1	PCB-10	ND		19	1.1
2050-67-1	PCB-11	3.9	J B U	19	1.1
STL01797	PCB-12/13	ND		39	1.1
34883-41-5	PCB-14	ND		19	0.96
2050-68-2	PCB-15	ND		19	1.1
38444-78-9	PCB-16	0.31	J q U	19	0.097
37680-66-3	PCB-17	0.27	J	19	0.073
STL01798	PCB-18/30	0.58	J B	39	0.062
38444-73-4	PCB-19	0.22	J	19	0.11
STL01799	PCB-20/28	5.3	J B	39	0.11
STL01800	PCB-21/33	0.51	J B U	39	0.099
38444-85-8	PCB-22	1.5	J	19	0.11
55720-44-0	PCB-23	ND		19	0.098
55702-45-9	PCB-24	ND		19	0.056
55712-37-3	PCB-25	0.16	J	19	0.099
STL01801	PCB-26/29	0.63	J	39	0.10
38444-76-7	PCB-27	ND		19	0.055
16606-02-3	PCB-31	3.3	J B	19	0.098
38444-77-8	PCB-32	0.16	J q U	19	0.048
37680-68-5	PCB-34	ND		19	0.10
37680-69-6	PCB-35	ND		19	0.12
38444-87-0	PCB-36	ND		19	0.10
38444-90-5	PCB-37	0.33	J	19	0.11
53555-66-1	PCB-38	ND		19	0.11
38444-88-1	PCB-39	ND		19	0.11

FORM I 1668A

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB205-061213 | Lab Sample ID: 320-3015-11

Matrix: Tissue | Lab File ID: 25JN1312D8_19.d

Analysis Method: 1668A | Date Collected: 06/12/2013 18:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.26(g) | Date Analyzed: 06/26/2013 10:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.32	J B U	39	0.042
52663-59-9	PCB-41	ND		19	0.053
36559-22-5	PCB-42	0.21	J q U	19	0.045
70362-46-8	PCB-43	ND		19	0.045
STL01803	PCB-44/47/65	4.3	J B	58	0.040
70362-45-7	PCB-45	0.13	J	19	0.044
41464-47-5	PCB-46	ND		19	0.048
70362-47-9	PCB-48	0.11	J q U	19	0.043
STL01805	PCB-49/69	2.4	J B	39	0.035
STL01806	PCB-50/53	ND		39	0.038
68194-04-7	PCB-51	ND		19	0.040
35693-99-3	PCB-52	7.6	J B	19	0.042
15968-05-5	PCB-54	0.11	J	19	0.038
74338-24-2	PCB-55	ND		19	0.15
41464-43-1	PCB-56	0.54	J	19	0.16
70424-67-8	PCB-57	ND		19	0.15
41464-49-7	PCB-58	ND		19	0.15
STL01807	PCB-59/62/75	0.11	J	58	0.031
33025-41-1	PCB-60	2.8	J	19	0.15
STL01808	PCB-61/70/74/76	20	J B	78	0.14
74472-34-7	PCB-63	0.38	J	19	0.14
52663-58-8	PCB-64	1.1	J B	19	0.030
32598-10-0	PCB-66	11	J B	19	0.16
73575-53-8	PCB-67	ND		19	0.14
73575-52-7	PCB-68	0.28	J B	19	0.13
41464-42-0	PCB-72	ND		19	0.14
74338-23-1	PCB-73	ND		19	0.033
32598-13-3	PCB-77	ND		1.9	0.17
70362-49-1	PCB-78	ND		19	0.17
41464-48-6	PCB-79	ND		19	0.15
33284-52-5	PCB-80	ND		19	0.14
70362-50-4	PCB-81	ND		1.9	0.17
52663-62-4	PCB-82	ND		19	0.51
60145-20-2	PCB-83	ND		19	0.51

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB205-061213 | Lab Sample ID: 320-3015-11

Matrix: Tissue | Lab File ID: 25JN1312D8_19.d

Analysis Method: 1668A | Date Collected: 06/12/2013 18:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.26(g) | Date Analyzed: 06/26/2013 10:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	ND		19	0.44
STL01810	PCB-85/116/117	12	J	58	0.35
STL01811	PCB-86/87/97/108/119/125	12	J B	120	0.34
STL01812	PCB-88/91	ND		39	0.36
73575-57-2	PCB-89	ND		19	0.42
STL01813	PCB-90/101/113	35	J B	58	0.34
52663-61-3	PCB-92	9.0	J	19	0.39
STL01814	PCB-93/100	ND		39	0.37
73575-55-0	PCB-94	ND		19	0.38
38379-99-6	PCB-95	3.3	J B	19	0.36
73575-54-9	PCB-96	ND		19	0.034
STL01843	PCB-98/102	ND		39	0.35
38380-01-7	PCB-99	49	B	19	0.38
60145-21-3	PCB-103	ND		19	0.33
56558-16-8	PCB-104	0.10	J	19	0.043
32598-14-4	PCB-105	24	B	1.9	0.36
70424-69-0	PCB-106	ND		19	0.36
STL01815	PCB-107/124	1.3	J	39	0.34
74472-35-8	PCB-109	4.0	J	19	0.31
STL01826	PCB-110/115	15	J B	39	0.30
39635-32-0	PCB-111	ND		19	0.30
74472-36-9	PCB-112	ND		19	0.28
74472-37-0	PCB-114	1.6	J	1.9	0.35
31508-00-6	PCB-118	74	B	1.9	0.34
68194-12-7	PCB-120	ND		19	0.31
56558-18-0	PCB-121	ND		19	0.27
76842-07-4	PCB-122	ND		19	0.39
65510-44-3	PCB-123	0.82	J	1.9	0.35
57465-28-8	PCB-126	ND		1.9	0.36
39635-33-1	PCB-127	ND		19	0.36
STL01816	PCB-128/166	24	J	39	0.95
STL01817	PCB-129/138/163	220	B	58	1.0
52663-66-8	PCB-130	2.1	J	19	1.3
61798-70-7	PCB-131	ND		19	1.2

 07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB205-061213 | Lab Sample ID: 320-3015-11

Matrix: Tissue | Lab File ID: 25JN1312D8_19.d

Analysis Method: 1668A | Date Collected: 06/12/2013 18:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.26(g) | Date Analyzed: 06/26/2013 10:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	2.4	J B	19	1.2
35694-04-3	PCB-133	5.0	J	19	1.2
STL01818	PCB-134/143	1.7	J	39	1.1
STL01819	PCB-135/151	34	J	39	1.0
38411-22-2	PCB-136	4.0	J	19	0.69
35694-06-5	PCB-137	5.4	J	19	1.1
STL01820	PCB-139/140	2.8	J	39	0.99
52712-04-6	PCB-141	12	J	19	1.1
41411-61-4	PCB-142	ND		19	1.1
68194-14-9	PCB-144	2.4	J	19	0.98
74472-40-5	PCB-145	ND		19	0.68
51908-16-8	PCB-146	28		19	1.1
STL01821	PCB-147/149	12	J B	39	0.99
74472-41-6	PCB-148	ND		19	0.95
68194-08-1	PCB-150	ND		19	0.63
68194-09-2	PCB-152	ND		19	0.63
STL01822	PCB-153/168	300	B	39	0.86
60145-22-4	PCB-154	4.3	J	19	0.87
33979-03-2	PCB-155	ND		19	0.72
STL01792	PCB-156/157	15		3.9	0.17
74472-42-7	PCB-158	13	J	19	0.78
39635-35-3	PCB-159	ND		19	0.15
41411-62-5	PCB-160	ND		19	0.90
74472-43-8	PCB-161	ND		19	0.82
39635-34-2	PCB-162	1.0	J	19	0.14
74472-45-0	PCB-164	1.3	J	19	0.80
74472-46-1	PCB-165	ND		19	0.92
52663-72-6	PCB-167	6.3		1.9	0.13
32774-16-6	PCB-169	ND		1.9	0.18
35065-30-6	PCB-170	39	B	19	0.14
STL01823	PCB-171/173	22	J	39	0.14
52663-74-8	PCB-172	7.0	J	19	0.14
38411-25-5	PCB-174	7.9	J B	19	0.14
40186-70-7	PCB-175	2.3	J	19	0.11

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB205-061213 | Lab Sample ID: 320-3015-11

Matrix: Tissue | Lab File ID: 25JN1312D8_19.d

Analysis Method: 1668A | Date Collected: 06/12/2013 18:20

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.26(g) | Date Analyzed: 06/26/2013 10:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19323 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	1.5	J	19	0.078
52663-70-4	PCB-177	8.1	J	19	0.14
52663-67-9	PCB-178	24		19	0.11
52663-64-6	PCB-179	19		19	0.086
STL01824	PCB-180/193	91	B	39	0.11
74472-47-2	PCB-181	ND		19	0.12
60145-23-5	PCB-182	0.30	J	19	0.10
52663-69-1	PCB-183	45	B	19	0.10
74472-48-3	PCB-184	0.33	J	19	0.086
52712-05-7	PCB-185	ND		19	0.13
74472-49-4	PCB-186	ND		19	0.082
52663-68-0	PCB-187	65	B	19	0.11
74487-85-7	PCB-188	0.20	J	19	0.077
39635-31-9	PCB-189	1.8	J q U	1.9	0.13
41411-64-7	PCB-190	6.7	J	19	0.10
74472-50-7	PCB-191	1.5	J	19	0.098
74472-51-8	PCB-192	ND		19	0.10
35694-08-7	PCB-194	16	J	19	0.13
52663-78-2	PCB-195	7.9	J	19	0.12
42740-50-1	PCB-196	12	J	19	0.14
33091-17-7	PCB-197	2.1	J	19	0.096
STL01825	PCB-198/199	24	J	39	0.15
52663-73-7	PCB-200	1.4	J	19	0.11
40186-71-8	PCB-201	5.7	J	19	0.10
2136-99-4	PCB-202	11	J	19	0.099
52663-76-0	PCB-203	16	J	19	0.13
74472-52-9	PCB-204	ND		19	0.11
74472-53-0	PCB-205	1.1	J q U	19	0.12
40186-72-9	PCB-206	15	J	19	0.74
52663-79-3	PCB-207	1.7	J	19	0.45
52663-77-1	PCB-208	5.5	J	19	0.43
2051-24-3	PCB-209	9.0	J B	19	0.13
27323-18-8	Total Monochlorobiphenyls	ND		190	0.20
25512-42-9	Total Dichlorobiphenyls	3.9	J B U	190	1.1

FORM I 1668A

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB205-061213
Lab Sample ID: 320-3015-11
Matrix: Tissue
Lab File ID: 25JN1312D8_19.d
Analysis Method: 1668A
Date Collected: 06/12/2013 18:20
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.26(g)
Date Analyzed: 06/26/2013 10:32
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19323
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	13	J q B	190	0.093
26914-33-0	Total Tetrachlorobiphenyls	51	J q B	190	0.095
25429-29-2	Total Pentachlorobiphenyls	240	B	190	0.34
26601-64-9	Total Hexachlorobiphenyls	690	B	190	0.83
28655-71-2	Total Heptachlorobiphenyls	340	q B	190	0.11
55722-26-4	Total Octachlorobiphenyls	98	J q	190	0.12
53742-07-7	Total Nonachlorobiphenyls	22	J	190	0.54

14:08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI201-061413
Lab Sample ID: 320-3015-12
Matrix: Tissue
Lab File ID: 25JN1312D8_23.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:40
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.03(g)
Date Analyzed: 06/26/2013 15:57
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.31
2051-61-8	PCB-2	ND		20	0.25
2051-62-9	PCB-3	ND		20	0.22
13029-08-8	PCB-4	ND		20	4.8
16605-91-7	PCB-5	ND		20	2.4
25569-80-6	PCB-6	ND		20	2.4
33284-50-3	PCB-7	ND		20	2.2
34883-43-7	PCB-8	ND		20	2.3
34883-39-1	PCB-9	ND		20	2.5
33146-45-1	PCB-10	ND		20	3.2
2050-67-1	PCB-11	3.2	J q B U	20	2.4
STL01797	PCB-12/13	ND		40	2.5
34883-41-5	PCB-14	ND		20	2.1
2050-68-2	PCB-15	ND		20	2.6
38444-78-9	PCB-16	0.31	J	20	0.19
37680-66-3	PCB-17	0.26	J q U	20	0.14
STL01798	PCB-18/30	0.57	J B	40	0.12
38444-73-4	PCB-19	ND		20	0.19
STL01799	PCB-20/28	3.2	J B	40	0.11
STL01800	PCB-21/33	0.35	J B U	40	0.098
38444-85-8	PCB-22	0.98	J	20	0.11
55720-44-0	PCB-23	ND		20	0.097
55702-45-9	PCB-24	ND		20	0.11
55712-37-3	PCB-25	0.14	J q U	20	0.098
STL01801	PCB-26/29	0.39	J	40	0.10
38444-76-7	PCB-27	ND		20	0.11
16606-02-3	PCB-31	2.2	J B U	20	0.098
38444-77-8	PCB-32	0.15	J q U	20	0.094
37680-68-5	PCB-34	ND		20	0.099
37680-69-6	PCB-35	ND		20	0.12
38444-87-0	PCB-36	ND		20	0.10
38444-90-5	PCB-37	ND		20	0.12
53555-66-1	PCB-38	ND		20	0.11
38444-88-1	PCB-39	ND		20	0.11

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI201-061413 | Lab Sample ID: 320-3015-12

Matrix: Tissue | Lab File ID: 25JN1312D8_23.d

Analysis Method: 1668A | Date Collected: 06/14/2013 16:40

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.03(g) | Date Analyzed: 06/26/2013 15:57

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup: (Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.21	J B U	40	0.036
52663-59-9	PCB-41	ND		20	0.045
36559-22-5	PCB-42	0.17	J	20	0.038
70362-46-8	PCB-43	ND		20	0.039
STL01803	PCB-44/47/65	1.9	J B U	60	0.034
70362-45-7	PCB-45	ND		20	0.038
41464-47-5	PCB-46	ND		20	0.042
70362-47-9	PCB-48	0.092	J q U	20	0.037
STL01805	PCB-49/69	1.2	J B	40	0.030
STL01806	PCB-50/53	0.088	J B	40	0.033
68194-04-7	PCB-51	0.075	J q U	20	0.034
35693-99-3	PCB-52	3.6	J B	20	0.036
15968-05-5	PCB-54	ND		20	0.055
74338-24-2	PCB-55	ND		20	0.067
41464-43-1	PCB-56	0.27	J q U	20	0.075
70424-67-8	PCB-57	ND		20	0.068
41464-49-7	PCB-58	ND		20	0.068
STL01807	PCB-59/62/75	0.17	J	60	0.027
33025-41-1	PCB-60	0.81	J	20	0.071
STL01808	PCB-61/70/74/76	4.8	J B	80	0.066
74472-34-7	PCB-63	0.12	J q U	20	0.062
52663-58-8	PCB-64	0.63	J B	20	0.026
32598-10-0	PCB-66	2.7	J B	20	0.075
73575-53-8	PCB-67	ND		20	0.062
73575-52-7	PCB-68	0.13	J q B U	20	0.059
41464-42-0	PCB-72	ND		20	0.065
74338-23-1	PCB-73	ND		20	0.029
32598-13-3	PCB-77	0.086	J q U	2.0	0.081
70362-49-1	PCB-78	ND		20	0.076
41464-48-6	PCB-79	ND		20	0.067
33284-52-5	PCB-80	ND		20	0.063
70362-50-4	PCB-81	ND		2.0	0.083
52663-62-4	PCB-82	ND		20	0.17
60145-20-2	PCB-83	ND		20	0.17

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI201-061413
Lab Sample ID: 320-3015-12
Matrix: Tissue
Lab File ID: 25JN1312D8_23.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:40
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.03(g)
Date Analyzed: 06/26/2013 15:57
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.26	J	20	0.14
STL01810	PCB-85/116/117	1.7	J	60	0.12
STL01811	PCB-86/87/97/108/119/125	2.0	J B	120	0.11
STL01812	PCB-88/91	ND		40	0.12
73575-57-2	PCB-89	ND		20	0.14
STL01813	PCB-90/101/113	6.0	J B	60	0.11
52663-61-3	PCB-92	1.3	J	20	0.13
STL01814	PCB-93/100	ND		40	0.12
73575-55-0	PCB-94	ND		20	0.13
38379-99-6	PCB-95	1.2	J B	20	0.12
73575-54-9	PCB-96	ND		20	0.039
STL01843	PCB-98/102	ND		40	0.11
38380-01-7	PCB-99	7.3	J B	20	0.12
60145-21-3	PCB-103	ND		20	0.11
56558-16-8	PCB-104	ND		20	0.047
32598-14-4	PCB-105	1.9	J B	2.0	0.12
70424-69-0	PCB-106	ND		20	0.12
STL01815	PCB-107/124	0.19	J	40	0.11
74472-35-8	PCB-109	0.52	J	20	0.10
STL01826	PCB-110/115	2.7	J B	40	0.10
39635-32-0	PCB-111	ND		20	0.098
74472-36-9	PCB-112	ND		20	0.092
74472-37-0	PCB-114	0.14	J	2.0	0.11
31508-00-6	PCB-118	7.2	B	2.0	0.12
68194-12-7	PCB-120	ND		20	0.10
56558-18-0	PCB-121	ND		20	0.090
76842-07-4	PCB-122	ND		20	0.13
65510-44-3	PCB-123	0.14	J q	2.0	0.12
57465-28-8	PCB-126	ND		2.0	0.12
39635-33-1	PCB-127	ND		20	0.12
STL01816	PCB-128/166	1.9	J	40	0.17
STL01817	PCB-129/138/163	22	J B	60	0.18
52663-66-8	PCB-130	0.37	J	20	0.23
61798-70-7	PCB-131	ND		20	0.22

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI201-061413
Lab Sample ID: 320-3015-12
Matrix: Tissue
Lab File ID: 25JN1312D8_23.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:40
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.03(g)
Date Analyzed: 06/26/2013 15:57
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	0.72	J B U	20	0.20
35694-04-3	PCB-133	0.53	J	20	0.21
STL01818	PCB-134/143	ND		40	0.20
STL01819	PCB-135/151	3.7	J	40	0.18
38411-22-2	PCB-136	0.49	J q U	20	0.12
35694-06-5	PCB-137	0.57	J	20	0.20
STL01820	PCB-139/140	ND		40	0.18
52712-04-6	PCB-141	0.87	J	20	0.20
41411-61-4	PCB-142	ND		20	0.20
68194-14-9	PCB-144	0.34	J q U	20	0.17
74472-40-5	PCB-145	ND		20	0.12
51908-16-8	PCB-146	3.5	J	20	0.19
STL01821	PCB-147/149	3.3	J B	40	0.17
74472-41-6	PCB-148	ND		20	0.17
68194-08-1	PCB-150	ND		20	0.11
68194-09-2	PCB-152	ND		20	0.11
STL01822	PCB-153/168	34	J B	40	0.15
60145-22-4	PCB-154	0.39	J q U	20	0.15
33979-03-2	PCB-155	ND		20	0.12
STL01792	PCB-156/157	0.81	J	4.0	0.095
74472-42-7	PCB-158	0.89	J	20	0.14
39635-35-3	PCB-159	ND		20	0.083
41411-62-5	PCB-160	ND		20	0.16
74472-43-8	PCB-161	ND		20	0.14
39635-34-2	PCB-162	ND		20	0.080
74472-45-0	PCB-164	0.21	J q U	20	0.14
74472-46-1	PCB-165	ND		20	0.16
52663-72-6	PCB-167	0.45	J	2.0	0.074
32774-16-6	PCB-169	ND		2.0	0.10
35065-30-6	PCB-170	3.3	J B	20	0.064
STL01823	PCB-171/173	1.2	J	40	0.061
52663-74-8	PCB-172	0.78	J	20	0.062
38411-25-5	PCB-174	1.2	J B	20	0.063
40186-70-7	PCB-175	0.17	J q U	20	0.087

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI201-061413
Lab Sample ID: 320-3015-12
Matrix: Tissue
Lab File ID: 25JN1312D8_23.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:40
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.03(g)
Date Analyzed: 06/26/2013 15:57
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.20	J	20	0.062
52663-70-4	PCB-177	0.81	J q	20	0.063
52663-67-9	PCB-178	2.3	J	20	0.090
52663-64-6	PCB-179	1.6	J	20	0.068
STL01824	PCB-180/193	10	J B	40	0.050
74472-47-2	PCB-181	ND		20	0.053
60145-23-5	PCB-182	ND		20	0.081
52663-69-1	PCB-183	3.2	J B	20	0.046
74472-48-3	PCB-184	0.17	J	20	0.068
52712-05-7	PCB-185	0.30	J	20	0.057
74472-49-4	PCB-186	ND		20	0.065
52663-68-0	PCB-187	7.4	J B	20	0.083
74487-85-7	PCB-188	ND		20	0.057
39635-31-9	PCB-189	0.10	J q	2.0	0.088
41411-64-7	PCB-190	0.53	J	20	0.046
74472-50-7	PCB-191	ND		20	0.044
74472-51-8	PCB-192	ND		20	0.046
35694-08-7	PCB-194	1.8	J	20	0.090
52663-78-2	PCB-195	0.67	J	20	0.083
42740-50-1	PCB-196	1.7	J	20	0.073
33091-17-7	PCB-197	0.22	J	20	0.049
STL01825	PCB-198/199	3.1	J	40	0.076
52663-73-7	PCB-200	0.12	J	20	0.056
40186-71-8	PCB-201	0.49	J	20	0.051
2136-99-4	PCB-202	1.2	J	20	0.048
52663-76-0	PCB-203	2.5	J	20	0.069
74472-52-9	PCB-204	ND		20	0.054
74472-53-0	PCB-205	0.14	J q	20	0.089
40186-72-9	PCB-206	2.7	J	20	0.17
52663-79-3	PCB-207	0.27	J q	20	0.11
52663-77-1	PCB-208	0.72	J q	20	0.11
2051-24-3	PCB-209	1.8	J B	20	0.072
27323-18-8	Total Monochlorobiphenyls	ND		200	0.31
25512-42-9	Total Dichlorobiphenyls	3.2	J q B	200	2.7

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI201-061413
Lab Sample ID: 320-3015-12
Matrix: Tissue
Lab File ID: 25JN1312D8_23.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:40
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.03(g)
Date Analyzed: 06/26/2013 15:57
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	8.5	J q B u	200	0.12
26914-33-0	Total Tetrachlorobiphenyls	17	J q B	200	0.053
25429-29-2	Total Pentachlorobiphenyls	33	J q B	200	0.11
26601-64-9	Total Hexachlorobiphenyls	75	J q B	200	0.16
28655-71-2	Total Heptachlorobiphenyls	33	J q B	200	0.064
55722-26-4	Total Octachlorobiphenyls	12	J q	200	0.067
53742-07-7	Total Nonachlorobiphenyls	3.7	J q	200	0.13

MM 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI202-061413 | Lab Sample ID: 320-3015-13

Matrix: Tissue | Lab File ID: 25JN1312D8_24.d

Analysis Method: 1668A | Date Collected: 06/14/2013 16:55

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.37(g) | Date Analyzed: 06/26/2013 17:10

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.29
2051-61-8	PCB-2	ND		19	0.25
2051-62-9	PCB-3	ND		19	0.23
13029-08-8	PCB-4	ND		19	4.5
16605-91-7	PCB-5	ND		19	2.1
25569-80-6	PCB-6	ND		19	2.1
33284-50-3	PCB-7	ND		19	1.9
34883-43-7	PCB-8	ND		19	2.1
34883-39-1	PCB-9	ND		19	2.2
33146-45-1	PCB-10	ND		19	2.9
2050-67-1	PCB-11	3.5	J q B U	19	2.2
STL01797	PCB-12/13	ND		39	2.2
34883-41-5	PCB-14	ND		19	1.9
2050-68-2	PCB-15	ND		19	2.2
38444-78-9	PCB-16	0.43	J	19	0.17
37680-66-3	PCB-17	0.33	J	19	0.13
STL01798	PCB-18/30	0.65	J B	39	0.11
38444-73-4	PCB-19	ND		19	0.19
STL01799	PCB-20/28	3.2	J B	39	0.11
STL01800	PCB-21/33	0.47	J q B U	39	0.10
38444-85-8	PCB-22	0.79	J	19	0.12
55720-44-0	PCB-23	ND		19	0.10
55702-45-9	PCB-24	ND		19	0.10
55712-37-3	PCB-25	ND		19	0.10
STL01801	PCB-26/29	0.35	J q U	39	0.10
38444-76-7	PCB-27	ND		19	0.098
16606-02-3	PCB-31	2.3	J B U	19	0.10
38444-77-8	PCB-32	0.16	J	19	0.086
37680-68-5	PCB-34	ND		19	0.10
37680-69-6	PCB-35	ND		19	0.12
38444-87-0	PCB-36	ND		19	0.11
38444-90-5	PCB-37	0.16	J q U	19	0.12
53555-66-1	PCB-38	ND		19	0.12
38444-88-1	PCB-39	ND		19	0.11

02/13/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI202-061413 | Lab Sample ID: 320-3015-13

Matrix: Tissue | Lab File ID: 25JN1312D8_24.d

Analysis Method: 1668A | Date Collected: 06/14/2013 16:55

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.37(g) | Date Analyzed: 06/26/2013 17:10

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.28	J B U	39	0.038
52663-59-9	PCB-41	0.083	J	19	0.047
36559-22-5	PCB-42	0.13	J q U	19	0.040
70362-46-8	PCB-43	ND		19	0.041
STL01803	PCB-44/47/65	1.9	J B U	58	0.036
70362-45-7	PCB-45	0.13	J	19	0.039
41464-47-5	PCB-46	ND		19	0.043
70362-47-9	PCB-48	0.11	J q U	19	0.038
STL01805	PCB-49/69	0.94	J B U	39	0.031
STL01806	PCB-50/53	0.11	J B	39	0.034
68194-04-7	PCB-51	0.071	J	19	0.035
35693-99-3	PCB-52	2.8	J B U	19	0.038
15968-05-5	PCB-54	ND		19	0.044
74338-24-2	PCB-55	ND		19	0.058
41464-43-1	PCB-56	0.34	J	19	0.065
70424-67-8	PCB-57	ND		19	0.059
41464-49-7	PCB-58	ND		19	0.059
STL01807	PCB-59/62/75	0.14	J q U	58	0.028
33025-41-1	PCB-60	0.77	J	19	0.062
STL01808	PCB-61/70/74/76	4.5	J B	77	0.058
74472-34-7	PCB-63	0.090	J q U	19	0.054
52663-58-8	PCB-64	0.58	J B U	19	0.027
32598-10-0	PCB-66	2.9	J B	19	0.066
73575-53-8	PCB-67	ND		19	0.054
73575-52-7	PCB-68	0.11	J q B U	19	0.052
41464-42-0	PCB-72	ND		19	0.056
74338-23-1	PCB-73	ND		19	0.030
32598-13-3	PCB-77	0.11	J q U	1.9	0.070
70362-49-1	PCB-78	ND		19	0.066
41464-48-6	PCB-79	ND		19	0.058
33284-52-5	PCB-80	ND		19	0.055
70362-50-4	PCB-81	ND		1.9	0.071
52663-62-4	PCB-82	ND		19	0.13
60145-20-2	PCB-83	ND		19	0.13

027/30/D

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI202-061413 | Lab Sample ID: 320-3015-13

Matrix: Tissue | Lab File ID: 25JN1312D8_24.d

Analysis Method: 1668A | Date Collected: 06/14/2013 16:55

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.37(g) | Date Analyzed: 06/26/2013 17:10

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.29	J	19	0.11
STL01810	PCB-85/116/117	1.4	J	58	0.089
STL01811	PCB-86/87/97/108/119/125	1.7	J B U	120	0.087
STL01812	PCB-88/91	ND		39	0.092
73575-57-2	PCB-89	ND		19	0.11
STL01813	PCB-90/101/113	4.8	J B	58	0.087
52663-61-3	PCB-92	0.96	J	19	0.10
STL01814	PCB-93/100	ND		39	0.093
73575-55-0	PCB-94	ND		19	0.097
38379-99-6	PCB-95	1.3	J B U	19	0.092
73575-54-9	PCB-96	ND		19	0.048
STL01843	PCB-98/102	ND		39	0.088
38380-01-7	PCB-99	7.3	J B	19	0.096
60145-21-3	PCB-103	ND		19	0.083
56558-16-8	PCB-104	ND		19	0.056
32598-14-4	PCB-105	1.7	J B	1.9	0.094
70424-69-0	PCB-106	ND		19	0.090
STL01815	PCB-107/124	0.16	J q U	39	0.085
74472-35-8	PCB-109	0.45	J	19	0.079
STL01826	PCB-110/115	2.4	J B U	39	0.077
39635-32-0	PCB-111	ND		19	0.076
74472-36-9	PCB-112	ND		19	0.071
74472-37-0	PCB-114	0.091	J q U	1.9	0.091
31508-00-6	PCB-118	7.2	B	1.9	0.087
68194-12-7	PCB-120	ND		19	0.078
56558-18-0	PCB-121	ND		19	0.069
76842-07-4	PCB-122	ND		19	0.098
65510-44-3	PCB-123	ND		1.9	0.091
57465-28-8	PCB-126	ND		1.9	0.095
39635-33-1	PCB-127	ND		19	0.090
STL01816	PCB-128/166	2.1	J	39	0.18
STL01817	PCB-129/138/163	23	J B	58	0.19
52663-66-8	PCB-130	0.32	J	19	0.24
61798-70-7	PCB-131	ND		19	0.23

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI202-061413
Lab Sample ID: 320-3015-13
Matrix: Tissue
Lab File ID: 25JN1312D8_24.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:55
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.37(g)
Date Analyzed: 06/26/2013 17:10
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	0.51	J q B U	19	0.21
35694-04-3	PCB-133	0.65	J	19	0.22
STL01818	PCB-134/143	ND		39	0.21
STL01819	PCB-135/151	3.8	J	39	0.19
38411-22-2	PCB-136	0.46	J	19	0.13
35694-06-5	PCB-137	0.58	J	19	0.21
STL01820	PCB-139/140	ND		39	0.19
52712-04-6	PCB-141	0.81	J	19	0.21
41411-61-4	PCB-142	ND		19	0.21
68194-14-9	PCB-144	ND		19	0.18
74472-40-5	PCB-145	ND		19	0.13
51908-16-8	PCB-146	2.6	J	19	0.20
STL01821	PCB-147/149	2.6	J B	39	0.18
74472-41-6	PCB-148	ND		19	0.18
68194-08-1	PCB-150	ND		19	0.12
68194-09-2	PCB-152	ND		19	0.12
STL01822	PCB-153/168	42	B	39	0.16
60145-22-4	PCB-154	0.56	J	19	0.16
33979-03-2	PCB-155	ND		19	0.13
STL01792	PCB-156/157	0.76	J	3.9	0.070
74472-42-7	PCB-158	0.96	J	19	0.14
39635-35-3	PCB-159	ND		19	0.060
41411-62-5	PCB-160	ND		19	0.17
74472-43-8	PCB-161	ND		19	0.15
39635-34-2	PCB-162	ND		19	0.058
74472-45-0	PCB-164	0.18	J	19	0.15
74472-46-1	PCB-165	ND		19	0.17
52663-72-6	PCB-167	0.51	J	1.9	0.054
32774-16-6	PCB-169	ND		1.9	0.077
35065-30-6	PCB-170	3.8	J B	19	0.062
STL01823	PCB-171/173	1.4	J	39	0.060
52663-74-8	PCB-172	0.78	J	19	0.060
38411-25-5	PCB-174	0.70	J q B U	19	0.062
40186-70-7	PCB-175	ND		19	0.079

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI202-061413 | Lab Sample ID: 320-3015-13

Matrix: Tissue | Lab File ID: 25JN1312D8_24.d

Analysis Method: 1668A | Date Collected: 06/14/2013 16:55

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.37(g) | Date Analyzed: 06/26/2013 17:10

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.16	J	19	0.056
52663-70-4	PCB-177	0.79	J	19	0.061
52663-67-9	PCB-178	3.0	J	19	0.081
52663-64-6	PCB-179	1.7	J	19	0.061
STL01824	PCB-180/193	12	J B	39	0.048
74472-47-2	PCB-181	ND		19	0.051
60145-23-5	PCB-182	ND		19	0.073
52663-69-1	PCB-183	3.3	J B	19	0.045
74472-48-3	PCB-184	ND		19	0.061
52712-05-7	PCB-185	0.20	J	19	0.056
74472-49-4	PCB-186	ND		19	0.058
52663-68-0	PCB-187	6.1	J B	19	0.075
74487-85-7	PCB-188	ND		19	0.051
39635-31-9	PCB-189	0.14	J q U	1.9	0.089
41411-64-7	PCB-190	0.71	J	19	0.044
74472-50-7	PCB-191	ND		19	0.043
74472-51-8	PCB-192	ND		19	0.045
35694-08-7	PCB-194	2.1	J	19	0.078
52663-78-2	PCB-195	0.71	J q U	19	0.072
42740-50-1	PCB-196	1.3	J	19	0.087
33091-17-7	PCB-197	0.23	J	19	0.058
STL01825	PCB-198/199	2.8	J	39	0.090
52663-73-7	PCB-200	0.072	J q U	19	0.066
40186-71-8	PCB-201	0.48	J	19	0.061
2136-99-4	PCB-202	1.6	J	19	0.058
52663-76-0	PCB-203	2.5	J	19	0.082
74472-52-9	PCB-204	ND		19	0.064
74472-53-0	PCB-205	0.18	J q U	19	0.076
40186-72-9	PCB-206	3.3	J	19	0.35
52663-79-3	PCB-207	ND		19	0.22
52663-77-1	PCB-208	0.92	J	19	0.23
2051-24-3	PCB-209	2.2	J B	19	0.061
27323-18-8	Total Monochlorobiphenyls	ND		190	0.29
25512-42-9	Total Dichlorobiphenyls	3.5	J q B U	190	2.4

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI202-061413
Lab Sample ID: 320-3015-13
Matrix: Tissue
Lab File ID: 25JN1312D8_24.d
Analysis Method: 1668A
Date Collected: 06/14/2013 16:55
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.37(g)
Date Analyzed: 06/26/2013 17:10
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	8.8	J q B	190	0.12
26914-33-0	Total Tetrachlorobiphenyls	16	J q B	190	0.048
25429-29-2	Total Pentachlorobiphenyls	30	J q B	190	0.089
26601-64-9	Total Hexachlorobiphenyls	82	J q B	190	0.16
28655-71-2	Total Heptachlorobiphenyls	35	J q B	190	0.060
55722-26-4	Total Octachlorobiphenyls	12	J q	190	0.072
53742-07-7	Total Nonachlorobiphenyls	4.2	J	190	0.27

MH 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI203-061413 | Lab Sample ID: 320-3015-14

Matrix: Tissue | Lab File ID: 25JN1312D8_25.d

Analysis Method: 1668A | Date Collected: 06/14/2013 17:28

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.24(g) | Date Analyzed: 06/26/2013 18:24

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.22
2051-61-8	PCB-2	ND		20	0.19
2051-62-9	PCB-3	ND		20	0.17
13029-08-8	PCB-4	ND		20	3.9
16605-91-7	PCB-5	ND		20	2.4
25569-80-6	PCB-6	ND		20	2.3
33284-50-3	PCB-7	ND		20	2.1
34883-43-7	PCB-8	ND		20	2.3
34883-39-1	PCB-9	ND		20	2.4
33146-45-1	PCB-10	ND		20	2.7
2050-67-1	PCB-11	3.4	J q B U	20	2.4
STL01797	PCB-12/13	ND		39	2.4
34883-41-5	PCB-14	ND		20	2.1
2050-68-2	PCB-15	ND		20	2.6
38444-78-9	PCB-16	0.19	J	20	0.17
37680-66-3	PCB-17	0.18	J	20	0.13
STL01798	PCB-18/30	0.43	J B	39	0.11
38444-73-4	PCB-19	ND		20	0.18
STL01799	PCB-20/28	2.7	J B	39	0.12
STL01800	PCB-21/33	0.20	J q B U	39	0.12
38444-85-8	PCB-22	0.79	J	20	0.13
55720-44-0	PCB-23	ND		20	0.11
55702-45-9	PCB-24	ND		20	0.10
55712-37-3	PCB-25	ND		20	0.12
STL01801	PCB-26/29	0.23	J q U	39	0.12
38444-76-7	PCB-27	ND		20	0.099
16606-02-3	PCB-31	1.6	J B U	20	0.12
38444-77-8	PCB-32	0.12	J q U	20	0.087
37680-68-5	PCB-34	ND		20	0.12
37680-69-6	PCB-35	ND		20	0.14
38444-87-0	PCB-36	ND		20	0.12
38444-90-5	PCB-37	ND		20	0.14
53555-66-1	PCB-38	ND		20	0.13
38444-88-1	PCB-39	ND		20	0.13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI203-061413
Lab Sample ID: 320-3015-14
Matrix: Tissue
Lab File ID: 25JN1312D8_25.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.24(g)
Date Analyzed: 06/26/2013 18:24
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.18	J q B U	39	0.045
52663-59-9	PCB-41	ND		20	0.056
36559-22-5	PCB-42	ND		20	0.048
70362-46-8	PCB-43	ND		20	0.048
STL01803	PCB-44/47/65	1.8	J B U	59	0.043
70362-45-7	PCB-45	ND		20	0.047
41464-47-5	PCB-46	ND		20	0.052
70362-47-9	PCB-48	0.088	J q U	20	0.045
STL01805	PCB-49/69	1.0	J B U	39	0.037
STL01806	PCB-50/53	ND		39	0.041
68194-04-7	PCB-51	ND		20	0.042
35693-99-3	PCB-52	3.0	J B U	20	0.045
15968-05-5	PCB-54	ND		20	0.049
74338-24-2	PCB-55	ND		20	0.076
41464-43-1	PCB-56	0.19	J q U	20	0.086
70424-67-8	PCB-57	ND		20	0.078
41464-49-7	PCB-58	ND		20	0.078
STL01807	PCB-59/62/75	0.18	J	59	0.034
33025-41-1	PCB-60	0.69	J	20	0.081
STL01808	PCB-61/70/74/76	4.4	J B	78	0.076
74472-34-7	PCB-63	0.13	J	20	0.071
52663-58-8	PCB-64	0.54	J B U	20	0.032
32598-10-0	PCB-66	2.5	J B	20	0.087
73575-53-8	PCB-67	ND		20	0.072
73575-52-7	PCB-68	0.15	J B	20	0.068
41464-42-0	PCB-72	ND		20	0.075
74338-23-1	PCB-73	ND		20	0.036
32598-13-3	PCB-77	0.12	J	2.0	0.092
70362-49-1	PCB-78	ND		20	0.087
41464-48-6	PCB-79	ND		20	0.076
33284-52-5	PCB-80	ND		20	0.073
70362-50-4	PCB-81	ND		2.0	0.092
52663-62-4	PCB-82	ND		20	0.15
60145-20-2	PCB-83	ND		20	0.15

CL 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI203-061413
Lab Sample ID: 320-3015-14
Matrix: Tissue
Lab File ID: 25JN1312D8_25.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.24(g)
Date Analyzed: 06/26/2013 18:24
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.22	J	20	0.13
STL01810	PCB-85/116/117	1.6	J	59	0.10
STL01811	PCB-86/87/97/108/119/125	1.9	J B U	120	0.10
STL01812	PCB-88/91	0.14	J	39	0.11
73575-57-2	PCB-89	ND		20	0.12
STL01813	PCB-90/101/113	6.3	J B	59	0.10
52663-61-3	PCB-92	1.3	J	20	0.11
STL01814	PCB-93/100	ND		39	0.11
73575-55-0	PCB-94	ND		20	0.11
38379-99-6	PCB-95	1.2	J B U	20	0.11
73575-54-9	PCB-96	ND		20	0.029
STL01843	PCB-98/102	ND		39	0.10
38380-01-7	PCB-99	7.2	J B	20	0.11
60145-21-3	PCB-103	ND		20	0.096
56558-16-8	PCB-104	ND		20	0.034
32598-14-4	PCB-105	1.8	J B	2.0	0.11
70424-69-0	PCB-106	ND		20	0.10
STL01815	PCB-107/124	0.17	J	39	0.098
74472-35-8	PCB-109	0.57	J q U	20	0.091
STL01826	PCB-110/115	2.5	J B U	39	0.089
39635-32-0	PCB-111	ND		20	0.087
74472-36-9	PCB-112	ND		20	0.082
74472-37-0	PCB-114	ND		2.0	0.10
31508-00-6	PCB-118	6.4	B	2.0	0.099
68194-12-7	PCB-120	ND		20	0.090
56558-18-0	PCB-121	ND		20	0.080
76842-07-4	PCB-122	ND		20	0.11
65510-44-3	PCB-123	ND		2.0	0.11
57465-28-8	PCB-126	ND		2.0	0.11
39635-33-1	PCB-127	ND		20	0.10
STL01816	PCB-128/166	2.0	J	39	0.19
STL01817	PCB-129/138/163	23	J B	59	0.20
52663-66-8	PCB-130	0.39	J	20	0.26
61798-70-7	PCB-131	ND		20	0.25

S27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI203-061413 | Lab Sample ID: 320-3015-14

Matrix: Tissue | Lab File ID: 25JN1312D8_25.d

Analysis Method: 1668A | Date Collected: 06/14/2013 17:28

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.24(g) | Date Analyzed: 06/26/2013 18:24

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	0.73	J B	20	0.23
35694-04-3	PCB-133	0.65	J	20	0.23
STL01818	PCB-134/143	ND		39	0.23
STL01819	PCB-135/151	4.7	J	39	0.20
38411-22-2	PCB-136	0.61	J	20	0.14
35694-06-5	PCB-137	0.51	J	20	0.22
STL01820	PCB-139/140	0.21	J	39	0.20
52712-04-6	PCB-141	1.1	J	20	0.22
41411-61-4	PCB-142	ND		20	0.23
68194-14-9	PCB-144	0.49	J	20	0.20
74472-40-5	PCB-145	ND		20	0.14
51908-16-8	PCB-146	4.6	J	20	0.22
STL01821	PCB-147/149	3.5	J B	39	0.20
74472-41-6	PCB-148	ND		20	0.19
68194-08-1	PCB-150	ND		20	0.13
68194-09-2	PCB-152	ND		20	0.13
STL01822	PCB-153/168	35	J B	39	0.17
60145-22-4	PCB-154	0.46	J	20	0.17
33979-03-2	PCB-155	ND		20	0.13
STL01792	PCB-156/157	0.65	J q	3.9	0.094
74472-42-7	PCB-158	0.89	J	20	0.15
39635-35-3	PCB-159	ND		20	0.080
41411-62-5	PCB-160	ND		20	0.18
74472-43-8	PCB-161	ND		20	0.16
39635-34-2	PCB-162	ND		20	0.078
74472-45-0	PCB-164	0.25	J	20	0.16
74472-46-1	PCB-165	ND		20	0.18
52663-72-6	PCB-167	0.42	J	2.0	0.071
32774-16-6	PCB-169	ND		2.0	0.11
35065-30-6	PCB-170	3.2	J B	20	0.061
STL01823	PCB-171/173	1.2	J	39	0.059
52663-74-8	PCB-172	0.76	J	20	0.059
38411-25-5	PCB-174	1.2	J B	20	0.061
40186-70-7	PCB-175	0.21	J q	20	0.11

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI203-061413 | Lab Sample ID: 320-3015-14

Matrix: Tissue | Lab File ID: 25JN1312D8_25.d

Analysis Method: 1668A | Date Collected: 06/14/2013 17:28

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.24(g) | Date Analyzed: 06/26/2013 18:24

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.23	J	20	0.075
52663-70-4	PCB-177	1.2	J q U	20	0.060
52663-67-9	PCB-178	3.1	J	20	0.11
52663-64-6	PCB-179	2.0	J	20	0.082
STL01824	PCB-180/193	8.7	J B	39	0.047
74472-47-2	PCB-181	ND		20	0.050
60145-23-5	PCB-182	ND		20	0.098
52663-69-1	PCB-183	2.9	J B	20	0.044
74472-48-3	PCB-184	ND		20	0.082
52712-05-7	PCB-185	0.55	J	20	0.055
74472-49-4	PCB-186	ND		20	0.078
52663-68-0	PCB-187	10	J B	20	0.10
74487-85-7	PCB-188	ND		20	0.066
39635-31-9	PCB-189	0.085	J q U	2.0	0.083
41411-64-7	PCB-190	0.46	J	20	0.044
74472-50-7	PCB-191	0.11	J q U	20	0.042
74472-51-8	PCB-192	ND		20	0.044
35694-08-7	PCB-194	1.9	J	20	0.072
52663-78-2	PCB-195	0.53	J	20	0.067
42740-50-1	PCB-196	1.3	J	20	0.087
33091-17-7	PCB-197	0.18	J	20	0.058
STL01825	PCB-198/199	3.3	J	39	0.091
52663-73-7	PCB-200	0.13	J	20	0.067
40186-71-8	PCB-201	0.49	J	20	0.062
2136-99-4	PCB-202	1.5	J	20	0.058
52663-76-0	PCB-203	2.0	J	20	0.082
74472-52-9	PCB-204	ND		20	0.064
74472-53-0	PCB-205	0.21	J	20	0.071
40186-72-9	PCB-206	2.3	J	20	0.48
52663-79-3	PCB-207	ND		20	0.31
52663-77-1	PCB-208	0.79	J	20	0.31
2051-24-3	PCB-209	1.3	J B	20	0.076
27323-18-8	Total Monochlorobiphenyls	ND		200	0.22
25512-42-9	Total Dichlorobiphenyls	3.4	J q B	200	2.5

02713013

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI203-061413
Lab Sample ID: 320-3015-14
Matrix: Tissue
Lab File ID: 25JN1312D8_25.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:28
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.24(g)
Date Analyzed: 06/26/2013 18:24
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	6.4	J q B	u 200	0.12
26914-33-0	Total Tetrachlorobiphenyls	15	J q B	u 200	0.061
25429-29-2	Total Pentachlorobiphenyls	31	J q B	200	0.10
26601-64-9	Total Hexachlorobiphenyls	80	J q B	200	0.17
28655-71-2	Total Heptachlorobiphenyls	36	J q B	200	0.068
55722-26-4	Total Octachlorobiphenyls	11	J	200	0.071
53742-07-7	Total Nonachlorobiphenyls	3.1	J	200	0.37

14 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI204-061413
Lab Sample ID: 320-3015-15
Matrix: Tissue
Lab File ID: 25JN1312D8_26.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:43
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.04(g)
Date Analyzed: 06/26/2013 19:37
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.30
2051-61-8	PCB-2	ND		20	0.26
2051-62-9	PCB-3	ND		20	0.24
13029-08-8	PCB-4	ND		20	4.2
16605-91-7	PCB-5	ND		20	2.3
25569-80-6	PCB-6	ND		20	2.3
33284-50-3	PCB-7	ND		20	2.1
34883-43-7	PCB-8	ND		20	2.2
34883-39-1	PCB-9	ND		20	2.3
33146-45-1	PCB-10	ND		20	2.9
2050-67-1	PCB-11	3.0	J q B U	20	2.3
STL01797	PCB-12/13	ND		40	2.3
34883-41-5	PCB-14	ND		20	2.0
2050-68-2	PCB-15	ND		20	2.5
38444-78-9	PCB-16	0.51	J q U	20	0.15
37680-66-3	PCB-17	0.28	J	20	0.12
STL01798	PCB-18/30	0.85	J B	40	0.099
38444-73-4	PCB-19	ND		20	0.17
STL01799	PCB-20/28	4.9	J B	40	0.12
STL01800	PCB-21/33	0.40	J q B U	40	0.11
38444-85-8	PCB-22	1.4	J	20	0.13
55720-44-0	PCB-23	ND		20	0.11
55702-45-9	PCB-24	ND		20	0.089
55712-37-3	PCB-25	0.33	J	20	0.11
STL01801	PCB-26/29	0.67	J	40	0.11
38444-76-7	PCB-27	ND		20	0.087
16606-02-3	PCB-31	3.4	J B	20	0.11
38444-77-8	PCB-32	0.16	J q U	20	0.077
37680-68-5	PCB-34	ND		20	0.11
37680-69-6	PCB-35	ND		20	0.14
38444-87-0	PCB-36	ND		20	0.12
38444-90-5	PCB-37	0.19	J	20	0.13
53555-66-1	PCB-38	ND		20	0.13
38444-88-1	PCB-39	ND		20	0.12

FORM I 1668A

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI204-061413
Lab Sample ID: 320-3015-15
Matrix: Tissue
Lab File ID: 25JN1312D8_26.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:43
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.04(g)
Date Analyzed: 06/26/2013 19:37
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.42	J B U	40	0.046
52663-59-9	PCB-41	ND		20	0.056
36559-22-5	PCB-42	0.26	J	20	0.048
70362-46-8	PCB-43	ND		20	0.049
STL01803	PCB-44/47/65	3.0	J B U	60	0.043
70362-45-7	PCB-45	0.13	J q U	20	0.047
41464-47-5	PCB-46	ND		20	0.052
70362-47-9	PCB-48	0.13	J	20	0.046
STL01805	PCB-49/69	2.1	J B	40	0.038
STL01806	PCB-50/53	0.14	J B	40	0.041
68194-04-7	PCB-51	0.11	J q U	20	0.042
35693-99-3	PCB-52	6.0	J B	20	0.045
15968-05-5	PCB-54	ND		20	0.042
74338-24-2	PCB-55	ND		20	0.087
41464-43-1	PCB-56	0.36	J	20	0.098
70424-67-8	PCB-57	ND		20	0.088
41464-49-7	PCB-58	ND		20	0.088
STL01807	PCB-59/62/75	0.29	J	60	0.034
33025-41-1	PCB-60	1.2	J	20	0.092
STL01808	PCB-61/70/74/76	7.6	J B	80	0.087
74472-34-7	PCB-63	0.25	J q U	20	0.081
52663-58-8	PCB-64	1.1	J B	20	0.032
32598-10-0	PCB-66	4.4	J B	20	0.099
73575-53-8	PCB-67	ND		20	0.082
73575-52-7	PCB-68	0.25	J B	20	0.078
41464-42-0	PCB-72	ND		20	0.085
74338-23-1	PCB-73	ND		20	0.036
32598-13-3	PCB-77	0.13	J	2.0	0.10
70362-49-1	PCB-78	ND		20	0.099
41464-48-6	PCB-79	ND		20	0.087
33284-52-5	PCB-80	ND		20	0.083
70362-50-4	PCB-81	ND		2.0	0.10
52663-62-4	PCB-82	ND		20	0.20
60145-20-2	PCB-83	ND		20	0.20

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI204-061413
Lab Sample ID: 320-3015-15
Matrix: Tissue
Lab File ID: 25JN1312D8_26.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:43
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.04(g)
Date Analyzed: 06/26/2013 19:37
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.50	J	20	0.18
STL01810	PCB-85/116/117	2.7	J	60	0.14
STL01811	PCB-86/87/97/108/119/125	3.1	J B	120	0.14
STL01812	PCB-88/91	0.23	J	40	0.15
73575-57-2	PCB-89	ND		20	0.17
STL01813	PCB-90/101/113	12	J B	60	0.14
52663-61-3	PCB-92	2.6	J	20	0.16
STL01814	PCB-93/100	ND		40	0.15
73575-55-0	PCB-94	ND		20	0.15
38379-99-6	PCB-95	2.6	J B	20	0.15
73575-54-9	PCB-96	ND		20	0.037
STL01843	PCB-98/102	ND		40	0.14
38380-01-7	PCB-99	12	J B	20	0.15
60145-21-3	PCB-103	ND		20	0.13
56558-16-8	PCB-104	ND		20	0.045
32598-14-4	PCB-105	2.9	B	2.0	0.15
70424-69-0	PCB-106	ND		20	0.14
STL01815	PCB-107/124	0.30	J	40	0.14
74472-35-8	PCB-109	1.0	J	20	0.13
STL01826	PCB-110/115	5.1	J B	40	0.12
39635-32-0	PCB-111	ND		20	0.12
74472-36-9	PCB-112	ND		20	0.11
74472-37-0	PCB-114	0.25	J	2.0	0.14
31508-00-6	PCB-118	11	B	2.0	0.14
68194-12-7	PCB-120	ND		20	0.12
56558-18-0	PCB-121	ND		20	0.11
76842-07-4	PCB-122	ND		20	0.16
65510-44-3	PCB-123	0.16	J q U	2.0	0.14
57465-28-8	PCB-126	ND		2.0	0.15
39635-33-1	PCB-127	ND		20	0.14
STL01816	PCB-128/166	3.6	J	40	0.29
STL01817	PCB-129/138/163	41	J B	60	0.31
52663-66-8	PCB-130	1.0	J	20	0.39
61798-70-7	PCB-131	ND		20	0.38

0271309/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI204-061413
Lab Sample ID: 320-3015-15
Matrix: Tissue
Lab File ID: 25JN1312D8_26.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:43
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.04(g)
Date Analyzed: 06/26/2013 19:37
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1.5	J B	20	0.35
35694-04-3	PCB-133	1.1	J	20	0.36
STL01818	PCB-134/143	ND		40	0.35
STL01819	PCB-135/151	8.8	J	40	0.31
38411-22-2	PCB-136	1.2	J	20	0.21
35694-06-5	PCB-137	0.80	J	20	0.34
STL01820	PCB-139/140	ND		40	0.30
52712-04-6	PCB-141	1.7	J	20	0.34
41411-61-4	PCB-142	ND		20	0.35
68194-14-9	PCB-144	0.77	J	20	0.30
74472-40-5	PCB-145	ND		20	0.21
51908-16-8	PCB-146	7.8	J	20	0.34
STL01821	PCB-147/149	7.2	J B	40	0.30
74472-41-6	PCB-148	ND		20	0.29
68194-08-1	PCB-150	ND		20	0.19
68194-09-2	PCB-152	ND		20	0.19
STL01822	PCB-153/168	60	B	40	0.26
60145-22-4	PCB-154	0.76	J q U	20	0.26
33979-03-2	PCB-155	ND		20	0.21
STL01792	PCB-156/157	1.3	J	4.0	0.092
74472-42-7	PCB-158	1.7	J	20	0.24
39635-35-3	PCB-159	ND		20	0.079
41411-62-5	PCB-160	ND		20	0.28
74472-43-8	PCB-161	ND		20	0.25
39635-34-2	PCB-162	0.16	J q U	20	0.076
74472-45-0	PCB-164	0.59	J	20	0.24
74472-46-1	PCB-165	ND		20	0.28
52663-72-6	PCB-167	0.77	J	2.0	0.069
32774-16-6	PCB-169	ND		2.0	0.10
35065-30-6	PCB-170	5.9	J B J	20	0.070
STL01823	PCB-171/173	2.2	J	40	0.067
52663-74-8	PCB-172	1.4	J	20	0.067
38411-25-5	PCB-174	2.5	J B	20	0.069
40186-70-7	PCB-175	0.46	J	20	0.11

FORM I 1668A

QR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI204-061413
Lab Sample ID: 320-3015-15
Matrix: Tissue
Lab File ID: 25JN1312D8_26.d
Analysis Method: 1668A
Date Collected: 06/14/2013 17:43
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.04(g)
Date Analyzed: 06/26/2013 19:37
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.37	J J	20	0.079
52663-70-4	PCB-177	2.8	J	20	0.068
52663-67-9	PCB-178	5.2	J	20	0.12
52663-64-6	PCB-179	3.7	J	20	0.087
STL01824	PCB-180/193	15	J B	40	0.054
74472-47-2	PCB-181	ND	U	20	0.058
60145-23-5	PCB-182	ND	U	20	0.10
52663-69-1	PCB-183	5.2	J B J	20	0.051
74472-48-3	PCB-184	ND	U	20	0.087
52712-05-7	PCB-185	0.53	J q UJ	20	0.063
74472-49-4	PCB-186	ND	U	20	0.083
52663-68-0	PCB-187	18	J B J	20	0.11
74487-85-7	PCB-188	ND	U	20	0.072
39635-31-9	PCB-189	0.23	J q U	2.0	0.080
41411-64-7	PCB-190	0.92	J J	20	0.050
74472-50-7	PCB-191	0.24	J	20	0.048
74472-51-8	PCB-192	ND	UJ	20	0.050
35694-08-7	PCB-194	2.7	J J	20	0.064
52663-78-2	PCB-195	0.97	J	20	0.059
42740-50-1	PCB-196	1.9	J	20	0.084
33091-17-7	PCB-197	0.20	J q UJ	20	0.056
STL01825	PCB-198/199	5.0	J J	40	0.087
52663-73-7	PCB-200	0.24	J	20	0.064
40186-71-8	PCB-201	0.80	J	20	0.059
2136-99-4	PCB-202	2.1	J	20	0.055
52663-76-0	PCB-203	2.9	J	20	0.079
74472-52-9	PCB-204	ND	U	20	0.062
74472-53-0	PCB-205	0.29	J	20	0.065
40186-72-9	PCB-206	3.6	J	20	0.56
52663-79-3	PCB-207	ND		20	0.35
52663-77-1	PCB-208	1.1	J	20	0.35
2051-24-3	PCB-209	1.8	J B	20	0.072
27323-18-8	Total Monochlorobiphenyls	ND		200	0.30
25512-42-9	Total Dichlorobiphenyls	3.0	J q B U	200	2.5

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI204-061413 | Lab Sample ID: 320-3015-15

Matrix: Tissue | Lab File ID: 25JN1312D8_26.d

Analysis Method: 1668A | Date Collected: 06/14/2013 17:43

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.04(g) | Date Analyzed: 06/26/2013 19:37

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup: (Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	13	J q B	200	0.12
26914-33-0	Total Tetrachlorobiphenyls	28	J q B	200	0.067
25429-29-2	Total Pentachlorobiphenyls	56	J q B	200	0.14
26601-64-9	Total Hexachlorobiphenyls	140	J q B	200	0.26
28655-71-2	Total Heptachlorobiphenyls	65	J q B J	200	0.075
55722-26-4	Total Octachlorobiphenyls	17	J q J	200	0.067
53742-07-7	Total Nonachlorobiphenyls	4.7	J	200	0.42

LM 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI205-061413 | Lab Sample ID: 320-3015-16

Matrix: Tissue | Lab File ID: 25JN1312D8_27.d

Analysis Method: 1668A | Date Collected: 06/14/2013 18:10

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 20:50

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.32
2051-61-8	PCB-2	ND		20	0.24
2051-62-9	PCB-3	ND		20	0.20
13029-08-8	PCB-4	ND		20	3.9
16605-91-7	PCB-5	ND		20	2.2
25569-80-6	PCB-6	ND		20	2.2
33284-50-3	PCB-7	ND		20	2.0
34883-43-7	PCB-8	ND		20	2.1
34883-39-1	PCB-9	ND		20	2.3
33146-45-1	PCB-10	ND		20	2.7
2050-67-1	PCB-11	3.4	J q B U	20	2.2
STL01797	PCB-12/13	ND		39	2.3
34883-41-5	PCB-14	ND		20	1.9
2050-68-2	PCB-15	ND		20	2.4
38444-78-9	PCB-16	ND		20	0.15
37680-66-3	PCB-17	0.18	J	20	0.12
STL01798	PCB-18/30	0.64	J B	39	0.099
38444-73-4	PCB-19	ND		20	0.16
STL01799	PCB-20/28	2.6	J B	39	0.12
STL01800	PCB-21/33	0.37	J B U	39	0.11
38444-85-8	PCB-22	0.89	J	20	0.12
55720-44-0	PCB-23	ND		20	0.11
55702-45-9	PCB-24	ND		20	0.089
55712-37-3	PCB-25	ND		20	0.11
STL01801	PCB-26/29	0.33	J	39	0.11
38444-76-7	PCB-27	ND		20	0.087
16606-02-3	PCB-31	1.7	J B U	20	0.11
38444-77-8	PCB-32	0.12	J	20	0.076
37680-68-5	PCB-34	ND		20	0.11
37680-69-6	PCB-35	ND		20	0.13
38444-87-0	PCB-36	ND		20	0.11
38444-90-5	PCB-37	ND		20	0.13
53555-66-1	PCB-38	ND		20	0.12
38444-88-1	PCB-39	ND		20	0.12

07/27/13d13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI205-061413 | Lab Sample ID: 320-3015-16

Matrix: Tissue | Lab File ID: 25JN1312D8_27.d

Analysis Method: 1668A | Date Collected: 06/14/2013 18:10

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 20:50

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.22	J B U	39	0.036
52663-59-9	PCB-41	ND		20	0.045
36559-22-5	PCB-42	0.15	J q U	20	0.038
70362-46-8	PCB-43	ND		20	0.039
STL01803	PCB-44/47/65	2.0	J B U	59	0.034
70362-45-7	PCB-45	0.10	J q U	20	0.037
41464-47-5	PCB-46	ND		20	0.041
70362-47-9	PCB-48	0.094	J q U	20	0.036
STL01805	PCB-49/69	1.2	J B	39	0.030
STL01806	PCB-50/53	0.078	J q B U	39	0.033
68194-04-7	PCB-51	ND		20	0.034
35693-99-3	PCB-52	3.9	J B	20	0.036
15968-05-5	PCB-54	ND		20	0.059
74338-24-2	PCB-55	ND		20	0.066
41464-43-1	PCB-56	0.25	J q U	20	0.074
70424-67-8	PCB-57	ND		20	0.067
41464-49-7	PCB-58	ND		20	0.067
STL01807	PCB-59/62/75	0.15	J q U	59	0.027
33025-41-1	PCB-60	0.71	J q U	20	0.070
STL01808	PCB-61/70/74/76	4.2	J B	79	0.065
74472-34-7	PCB-63	0.14	J q U	20	0.061
52663-58-8	PCB-64	0.58	J B U	20	0.025
32598-10-0	PCB-66	2.4	J B	20	0.074
73575-53-8	PCB-67	ND		20	0.062
73575-52-7	PCB-68	0.18	J B	20	0.059
41464-42-0	PCB-72	ND		20	0.064
74338-23-1	PCB-73	ND		20	0.028
32598-13-3	PCB-77	ND		2.0	0.079
70362-49-1	PCB-78	ND		20	0.075
41464-48-6	PCB-79	ND		20	0.066
33284-52-5	PCB-80	ND		20	0.062
70362-50-4	PCB-81	ND		2.0	0.080
52663-62-4	PCB-82	ND		20	0.17
60145-20-2	PCB-83	ND		20	0.17

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI205-061413 | Lab Sample ID: 320-3015-16

Matrix: Tissue | Lab File ID: 25JN1312D8_27.d

Analysis Method: 1668A | Date Collected: 06/14/2013 18:10

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 20:50

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.25	J	20	0.15
STL01810	PCB-85/116/117	1.8	J	59	0.12
STL01811	PCB-86/87/97/108/119/125	2.2	J B	120	0.11
STL01812	PCB-88/91	ND		39	0.12
73575-57-2	PCB-89	ND		20	0.14
STL01813	PCB-90/101/113	6.1	J B	59	0.11
52663-61-3	PCB-92	1.6	J	20	0.13
STL01814	PCB-93/100	ND		39	0.12
73575-55-0	PCB-94	ND		20	0.13
38379-99-6	PCB-95	1.1	J B	20	0.12
73575-54-9	PCB-96	ND		20	0.035
STL01843	PCB-98/102	ND		39	0.12
38380-01-7	PCB-99	8.1	J B	20	0.13
60145-21-3	PCB-103	ND		20	0.11
56558-16-8	PCB-104	ND		20	0.041
32598-14-4	PCB-105	1.8	J B	2.0	0.13
70424-69-0	PCB-106	ND		20	0.12
STL01815	PCB-107/124	0.16	J	39	0.11
74472-35-8	PCB-109	0.51	J q	20	0.10
STL01826	PCB-110/115	2.7	J B	39	0.10
39635-32-0	PCB-111	ND		20	0.10
74472-36-9	PCB-112	ND		20	0.094
74472-37-0	PCB-114	ND		2.0	0.12
31508-00-6	PCB-118	6.2	B	2.0	0.12
68194-12-7	PCB-120	ND		20	0.10
56558-18-0	PCB-121	ND		20	0.091
76842-07-4	PCB-122	ND		20	0.13
65510-44-3	PCB-123	ND		2.0	0.12
57465-28-8	PCB-126	ND		2.0	0.13
39635-33-1	PCB-127	ND		20	0.12
STL01816	PCB-128/166	2.4	J	39	0.22
STL01817	PCB-129/138/163	25	J B	59	0.23
52663-66-8	PCB-130	0.59	J	20	0.29
61798-70-7	PCB-131	ND		20	0.28

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI205-061413
Lab Sample ID: 320-3015-16
Matrix: Tissue
Lab File ID: 25JN1312D8_27.d
Analysis Method: 1668A
Date Collected: 06/14/2013 18:10
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.14(g)
Date Analyzed: 06/26/2013 20:50
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	0.90	J B U	20	0.26
35694-04-3	PCB-133	0.91	J	20	0.27
STL01818	PCB-134/143	0.26	J q U	39	0.26
STL01819	PCB-135/151	5.5	J	39	0.23
38411-22-2	PCB-136	0.73	J	20	0.16
35694-06-5	PCB-137	0.47	J q U	20	0.25
STL01820	PCB-139/140	ND		39	0.22
52712-04-6	PCB-141	1.1	J	20	0.25
41411-61-4	PCB-142	ND		20	0.26
68194-14-9	PCB-144	0.43	J q U	20	0.22
74472-40-5	PCB-145	ND		20	0.15
51908-16-8	PCB-146	5.5	J	20	0.25
STL01821	PCB-147/149	3.7	J B	39	0.22
74472-41-6	PCB-148	ND		20	0.21
68194-08-1	PCB-150	ND		20	0.14
68194-09-2	PCB-152	ND		20	0.14
STL01822	PCB-153/168	42	B	39	0.19
60145-22-4	PCB-154	0.70	J	20	0.20
33979-03-2	PCB-155	ND		20	0.15
STL01792	PCB-156/157	0.76	J	3.9	0.073
74472-42-7	PCB-158	0.94	J	20	0.18
39635-35-3	PCB-159	ND		20	0.063
41411-62-5	PCB-160	ND		20	0.20
74472-43-8	PCB-161	ND		20	0.18
39635-34-2	PCB-162	0.16	J	20	0.061
74472-45-0	PCB-164	0.24	J q U	20	0.18
74472-46-1	PCB-165	ND		20	0.21
52663-72-6	PCB-167	0.45	J	2.0	0.056
32774-16-6	PCB-169	ND		2.0	0.080
35065-30-6	PCB-170	3.9	J B	20	0.067
STL01823	PCB-171/173	1.5	J	39	0.064
52663-74-8	PCB-172	0.99	J	20	0.065
38411-25-5	PCB-174	1.5	J B	20	0.066
40186-70-7	PCB-175	0.47	J q U	20	0.084

FORM I 1668A

07/12/2013

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI205-061413 | Lab Sample ID: 320-3015-16

Matrix: Tissue | Lab File ID: 25JN1312D8_27.d

Analysis Method: 1668A | Date Collected: 06/14/2013 18:10

Extract. Method: HRMS-Sox | Date Extracted: 06/22/2013 11:32

Sample wt/vol: 10.14(g) | Date Analyzed: 06/26/2013 20:50

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19324 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.33	J	20	0.060
52663-70-4	PCB-177	1.9	J	20	0.065
52663-67-9	PCB-178	4.9	J	20	0.087
52663-64-6	PCB-179	2.8	J	20	0.065
STL01824	PCB-180/193	13	J B	39	0.052
74472-47-2	PCB-181	ND		20	0.055
60145-23-5	PCB-182	ND		20	0.078
52663-69-1	PCB-183	4.5	J B	20	0.049
74472-48-3	PCB-184	0.069	J q U	20	0.065
52712-05-7	PCB-185	0.75	J	20	0.060
74472-49-4	PCB-186	ND		20	0.062
52663-68-0	PCB-187	16	J B	20	0.081
74487-85-7	PCB-188	0.11	J	20	0.053
39635-31-9	PCB-189	0.12	J q U	2.0	0.093
41411-64-7	PCB-190	0.58	J q U	20	0.048
74472-50-7	PCB-191	ND		20	0.046
74472-51-8	PCB-192	ND		20	0.048
35694-08-7	PCB-194	3.5	J	20	0.070
52663-78-2	PCB-195	1.2	J	20	0.065
42740-50-1	PCB-196	2.9	J	20	0.074
33091-17-7	PCB-197	0.41	J	20	0.049
STL01825	PCB-198/199	9.2	J	39	0.076
52663-73-7	PCB-200	0.31	J	20	0.056
40186-71-8	PCB-201	1.4	J	20	0.052
2136-99-4	PCB-202	3.8	J	20	0.049
52663-76-0	PCB-203	5.6	J	20	0.069
74472-52-9	PCB-204	ND		20	0.054
74472-53-0	PCB-205	0.30	J	20	0.071
40186-72-9	PCB-206	11	J	20	0.55
52663-79-3	PCB-207	ND		20	0.35
52663-77-1	PCB-208	3.3	J	20	0.35
2051-24-3	PCB-209	4.8	J B	20	0.081
27323-18-8	Total Monochlorobiphenyls	ND		200	0.32
25512-42-9	Total Dichlorobiphenyls	3.4	J q B	200	2.4

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI205-061413
Lab Sample ID: 320-3015-16
Matrix: Tissue
Lab File ID: 25JN1312D8_27.d
Analysis Method: 1668A
Date Collected: 06/14/2013 18:10
Extract. Method: HRMS-Sox
Date Extracted: 06/22/2013 11:32
Sample wt/vol: 10.14(g)
Date Analyzed: 06/26/2013 20:50
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19324
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	6.8	J B u	200	0.11
26914-33-0	Total Tetrachlorobiphenyls	16	J q B	200	0.052
25429-29-2	Total Pentachlorobiphenyls	33	J q B	200	0.12
26601-64-9	Total Hexachlorobiphenyls	92	J q B	200	0.19
28655-71-2	Total Heptachlorobiphenyls	53	J q B	200	0.064
55722-26-4	Total Octachlorobiphenyls	29	J	200	0.062
53742-07-7	Total Nonachlorobiphenyls	14	J	200	0.42

14408/7/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI101-061313
Lab Sample ID: 320-3015-17
Matrix: Tissue
Lab File ID: 25JN1312D8_43.d
Analysis Method: 1668A
Date Collected: 06/13/2013 16:23
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.04(g)
Date Analyzed: 06/27/2013 16:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.30
2051-61-8	PCB-2	3.7	J	20	0.28
2051-62-9	PCB-3	ND		20	0.27
13029-08-8	PCB-4	ND		20	3.7
16605-91-7	PCB-5	ND		20	1.8
25569-80-6	PCB-6	ND		20	1.8
33284-50-3	PCB-7	ND		20	1.6
34883-43-7	PCB-8	ND		20	1.7
34883-39-1	PCB-9	ND		20	1.8
33146-45-1	PCB-10	ND		20	2.2
2050-67-1	PCB-11	5.7	J B	20	1.8
STL01797	PCB-12/13	ND		40	1.8
34883-41-5	PCB-14	ND		20	1.6
2050-68-2	PCB-15	ND		20	1.8
38444-78-9	PCB-16	1.1	J q B U	20	0.14
37680-66-3	PCB-17	0.60	J B	20	0.11
STL01798	PCB-18/30	2.3	J B	40	0.094
38444-73-4	PCB-19	0.24	J	20	0.16
STL01799	PCB-20/28	5.4	J B	40	0.30
STL01800	PCB-21/33	1.9	J	40	0.28
38444-85-8	PCB-22	1.1	J q U	20	0.32
55720-44-0	PCB-23	ND		20	0.27
55702-45-9	PCB-24	ND		20	0.084
55712-37-3	PCB-25	ND		20	0.28
STL01801	PCB-26/29	0.62	J	40	0.28
38444-76-7	PCB-27	0.15	J q U	20	0.083
16606-02-3	PCB-31	4.4	J B U	20	0.27
38444-77-8	PCB-32	0.34	J B U	20	0.072
37680-68-5	PCB-34	ND		20	0.28
37680-69-6	PCB-35	ND		20	0.33
38444-87-0	PCB-36	ND		20	0.29
38444-90-5	PCB-37	0.62	J	20	0.30
53555-66-1	PCB-38	ND		20	0.32
38444-88-1	PCB-39	ND		20	0.30

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI101-061313
Lab Sample ID: 320-3015-17
Matrix: Tissue
Lab File ID: 25JN1312D8_43.d
Analysis Method: 1668A
Date Collected: 06/13/2013 16:23
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.04(g)
Date Analyzed: 06/27/2013 16:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	1.3	J	40	0.047
52663-59-9	PCB-41	0.27	J q U	20	0.059
36559-22-5	PCB-42	0.74	J B	20	0.050
70362-46-8	PCB-43	0.10	J q U	20	0.051
STL01803	PCB-44/47/65	4.4	J B	60	0.045
70362-45-7	PCB-45	0.14	J q U	20	0.049
41464-47-5	PCB-46	0.13	J q U	20	0.054
70362-47-9	PCB-48	0.71	J	20	0.048
STL01805	PCB-49/69	1.7	J B	40	0.039
STL01806	PCB-50/53	0.42	J B U	40	0.043
68194-04-7	PCB-51	ND		20	0.044
35693-99-3	PCB-52	7.3	J B	20	0.047
15968-05-5	PCB-54	ND		20	0.055
74338-24-2	PCB-55	ND		20	0.14
41464-43-1	PCB-56	0.87	J	20	0.16
70424-67-8	PCB-57	ND		20	0.15
41464-49-7	PCB-58	ND		20	0.15
STL01807	PCB-59/62/75	0.35	J	60	0.035
33025-41-1	PCB-60	1.1	J	20	0.15
STL01808	PCB-61/70/74/76	9.5	J B	80	0.14
74472-34-7	PCB-63	ND		20	0.14
52663-58-8	PCB-64	0.80	J B U	20	0.033
32598-10-0	PCB-66	4.8	J B	20	0.16
73575-53-8	PCB-67	ND		20	0.14
73575-52-7	PCB-68	0.24	J q U	20	0.13
41464-42-0	PCB-72	ND		20	0.14
74338-23-1	PCB-73	ND		20	0.037
32598-13-3	PCB-77	ND		2.0	0.18
70362-49-1	PCB-78	ND		20	0.16
41464-48-6	PCB-79	ND		20	0.15
33284-52-5	PCB-80	ND		20	0.14
70362-50-4	PCB-81	ND		2.0	0.19
52663-62-4	PCB-82	0.52	J	20	0.27
60145-20-2	PCB-83	ND		20	0.27

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI101-061313 | Lab Sample ID: 320-3015-17

Matrix: Tissue | Lab File ID: 25JN1312D8_43.d

Analysis Method: 1668A | Date Collected: 06/13/2013 16:23

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.04(g) | Date Analyzed: 06/27/2013 16:55

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.95	J	20	0.24
STL01810	PCB-85/116/117	1.9	J	60	0.19
STL01811	PCB-86/87/97/108/119/125	4.2	J B	120	0.19
STL01812	PCB-88/91	0.33	J q U	40	0.20
73575-57-2	PCB-89	ND		20	0.23
STL01813	PCB-90/101/113	10	J B	60	0.19
52663-61-3	PCB-92	1.8	J	20	0.21
STL01814	PCB-93/100	ND		40	0.20
73575-55-0	PCB-94	ND		20	0.21
38379-99-6	PCB-95	5.6	J B	20	0.20
73575-54-9	PCB-96	ND		20	0.042
STL01843	PCB-98/102	ND		40	0.19
38380-01-7	PCB-99	7.4	J	20	0.20
60145-21-3	PCB-103	ND		20	0.18
56558-16-8	PCB-104	ND		20	0.048
32598-14-4	PCB-105	2.7		2.0	0.19
70424-69-0	PCB-106	ND		20	0.19
STL01815	PCB-107/124	0.28	J q U	40	0.18
74472-35-8	PCB-109	0.71	J	20	0.17
STL01826	PCB-110/115	5.1	J B	40	0.16
39635-32-0	PCB-111	ND		20	0.16
74472-36-9	PCB-112	ND		20	0.15
74472-37-0	PCB-114	ND		2.0	0.19
31508-00-6	PCB-118	10	B	2.0	0.19
68194-12-7	PCB-120	ND		20	0.17
56558-18-0	PCB-121	ND		20	0.15
76842-07-4	PCB-122	ND		20	0.21
65510-44-3	PCB-123	ND		2.0	0.21
57465-28-8	PCB-126	ND		2.0	0.21
39635-33-1	PCB-127	ND		20	0.19
STL01816	PCB-128/166	2.2	J	40	0.20
STL01817	PCB-129/138/163	25	J B	60	0.21
52663-66-8	PCB-130	0.96	J	20	0.27
61798-70-7	PCB-131	ND		20	0.26

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI101-061313
Lab Sample ID: 320-3015-17
Matrix: Tissue
Lab File ID: 25JN1312D8_43.d
Analysis Method: 1668A
Date Collected: 06/13/2013 16:23
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.04(g)
Date Analyzed: 06/27/2013 16:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	2.1	J	20	0.24
35694-04-3	PCB-133	0.51	J q U	20	0.25
STL01818	PCB-134/143	ND		40	0.24
STL01819	PCB-135/151	6.1	J	40	0.21
38411-22-2	PCB-136	1.3	J	20	0.14
35694-06-5	PCB-137	ND		20	0.23
STL01820	PCB-139/140	ND		40	0.21
52712-04-6	PCB-141	ND		20	0.23
41411-61-4	PCB-142	ND		20	0.24
68194-14-9	PCB-144	0.57	J	20	0.20
74472-40-5	PCB-145	ND		20	0.14
51908-16-8	PCB-146	5.4	J	20	0.23
STL01821	PCB-147/149	13	J B	40	0.21
74472-41-6	PCB-148	ND		20	0.20
68194-08-1	PCB-150	ND		20	0.13
68194-09-2	PCB-152	ND		20	0.13
STL01822	PCB-153/168	35	J B	40	0.18
60145-22-4	PCB-154	0.26	J q U	20	0.18
33979-03-2	PCB-155	ND		20	0.14
STL01792	PCB-156/157	0.85	J	4.0	0.12
74472-42-7	PCB-158	1.2	J	20	0.16
39635-35-3	PCB-159	ND		20	0.10
41411-62-5	PCB-160	ND		20	0.19
74472-43-8	PCB-161	ND		20	0.17
39635-34-2	PCB-162	ND		20	0.098
74472-45-0	PCB-164	ND		20	0.17
74472-46-1	PCB-165	ND		20	0.19
52663-72-6	PCB-167	0.56	J	2.0	0.086
32774-16-6	PCB-169	ND		2.0	0.13
35065-30-6	PCB-170	0.32	J q UJ	20	0.068
STL01823	PCB-171/173	1.4	J J	40	0.065
52663-74-8	PCB-172	0.15	J q UJ	20	0.065
38411-25-5	PCB-174	0.19	J J	20	0.067
40186-70-7	PCB-175	ND	UJ	20	0.14

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI101-061313
Lab Sample ID: 320-3015-17
Matrix: Tissue
Lab File ID: 25JN1312D8_43.d
Analysis Method: 1668A
Date Collected: 06/13/2013 16:23
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.04(g)
Date Analyzed: 06/27/2013 16:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.55	J J	20	0.097
52663-70-4	PCB-177	3.8	J	20	0.066
52663-67-9	PCB-178	2.7	J	20	0.14
52663-64-6	PCB-179	3.1	J	20	0.11
STL01824	PCB-180/193	2.8	J	40	0.052
74472-47-2	PCB-181	ND	UJ	20	0.055
60145-23-5	PCB-182	ND	UJ	20	0.13
52663-69-1	PCB-183	3.1	J J	20	0.049
74472-48-3	PCB-184	0.27	J J	20	0.11
52712-05-7	PCB-185	ND	UJ	20	0.060
74472-49-4	PCB-186	ND	UJ	20	0.10
52663-68-0	PCB-187	11	J J	20	0.13
74487-85-7	PCB-188	ND	UJ	20	0.073
39635-31-9	PCB-189	ND	UJ	2.0	0.18
41411-64-7	PCB-190	0.24	J q UJ	20	0.048
74472-50-7	PCB-191	ND	UJ	20	0.046
74472-51-8	PCB-192	ND		20	0.049
35694-08-7	PCB-194	ND		20	0.12
52663-78-2	PCB-195	ND		20	0.11
42740-50-1	PCB-196	ND		20	0.13
33091-17-7	PCB-197	ND		20	0.087
STL01825	PCB-198/199	ND		40	0.13
52663-73-7	PCB-200	0.17	J J	20	0.099
40186-71-8	PCB-201	0.60	J	20	0.092
2136-99-4	PCB-202	1.1	J	20	0.064
52663-76-0	PCB-203	0.27	J	20	0.12
74472-52-9	PCB-204	ND	J	20	0.096
74472-53-0	PCB-205	ND		20	0.23
40186-72-9	PCB-206	ND		20	0.92
52663-79-3	PCB-207	ND	UJ	20	0.46
52663-77-1	PCB-208	ND	UJ	20	0.41
2051-24-3	PCB-209	ND		20	0.19
27323-18-8	Total Monochlorobiphenyls	3.7	J	200	0.28
25512-42-9	Total Dichlorobiphenyls	5.7	J B	200	2.0

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI101-061313 | Lab Sample ID: 320-3015-17

Matrix: Tissue | Lab File ID: 25JN1312D8_43.d

Analysis Method: 1668A | Date Collected: 06/13/2013 16:23

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.04(g) | Date Analyzed: 06/27/2013 16:55

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	19	J q B	200	0.23
26914-33-0	Total Tetrachlorobiphenyls	35	J q B	200	0.099
25429-29-2	Total Pentachlorobiphenyls	52	J q B	200	0.19
26601-64-9	Total Hexachlorobiphenyls	94	J q B	200	0.18
28655-71-2	Total Heptachlorobiphenyls	29	J q	J 200	0.086
55722-26-4	Total Octachlorobiphenyls	2.1	J	J 200	0.12
53742-07-7	Total Nonachlorobiphenyls	ND		UJ 200	0.92

MU08/09/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI102-061313
Lab Sample ID: 320-3015-18
Matrix: Tissue
Lab File ID: 25JN1312D8_44.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.37(g)
Date Analyzed: 06/27/2013 18:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.27
2051-61-8	PCB-2	2.2	J	19	0.25
2051-62-9	PCB-3	ND		19	0.24
13029-08-8	PCB-4	ND		19	3.5
16605-91-7	PCB-5	ND		19	1.8
25569-80-6	PCB-6	ND		19	1.8
33284-50-3	PCB-7	ND		19	1.7
34883-43-7	PCB-8	ND		19	1.8
34883-39-1	PCB-9	ND		19	1.9
33146-45-1	PCB-10	ND		19	2.1
2050-67-1	PCB-11	6.1	J q B U	19	1.9
STL01797	PCB-12/13	ND		39	1.9
34883-41-5	PCB-14	ND		19	1.6
2050-68-2	PCB-15	ND		19	1.8
38444-78-9	PCB-16	1.1	J B U	19	0.13
37680-66-3	PCB-17	0.57	J B	19	0.096
STL01798	PCB-18/30	2.0	J B	39	0.082
38444-73-4	PCB-19	0.30	J	19	0.14
STL01799	PCB-20/28	5.0	J B	39	0.29
STL01800	PCB-21/33	1.8	J	39	0.27
38444-85-8	PCB-22	1.1	J	19	0.31
55720-44-0	PCB-23	ND		19	0.26
55702-45-9	PCB-24	ND		19	0.074
55712-37-3	PCB-25	ND		19	0.27
STL01801	PCB-26/29	0.62	J q U	39	0.27
38444-76-7	PCB-27	0.15	J q U	19	0.072
16606-02-3	PCB-31	4.1	J B U	19	0.26
38444-77-8	PCB-32	0.29	J B U	19	0.063
37680-68-5	PCB-34	ND		19	0.27
37680-69-6	PCB-35	ND		19	0.32
38444-87-0	PCB-36	ND		19	0.28
38444-90-5	PCB-37	0.55	J q U	19	0.30
53555-66-1	PCB-38	ND		19	0.31
38444-88-1	PCB-39	ND		19	0.29

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI102-061313
Lab Sample ID: 320-3015-18
Matrix: Tissue
Lab File ID: 25JN1312D8_44.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.37(g)
Date Analyzed: 06/27/2013 18:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	1.1	J	39	0.043
52663-59-9	PCB-41	0.24	J	19	0.054
36559-22-5	PCB-42	0.61	J B	19	0.046
70362-46-8	PCB-43	ND		19	0.046
STL01803	PCB-44/47/65	2.1	J q B U	58	0.041
70362-45-7	PCB-45	0.16	J q U	19	0.045
41464-47-5	PCB-46	0.14	J q U	19	0.049
70362-47-9	PCB-48	0.66	J	19	0.043
STL01805	PCB-49/69	1.4	J B U	39	0.036
STL01806	PCB-50/53	0.30	J q B U	39	0.039
68194-04-7	PCB-51	ND		19	0.040
35693-99-3	PCB-52	6.3	J B	19	0.043
15968-05-5	PCB-54	ND		19	0.044
74338-24-2	PCB-55	ND		19	0.11
41464-43-1	PCB-56	0.65	J q U	19	0.12
70424-67-8	PCB-57	ND		19	0.11
41464-49-7	PCB-58	ND		19	0.11
STL01807	PCB-59/62/75	ND		58	0.032
33025-41-1	PCB-60	1.0	J	19	0.12
STL01808	PCB-61/70/74/76	9.1	J B	77	0.11
74472-34-7	PCB-63	ND		19	0.10
52663-58-8	PCB-64	0.61	J B U	19	0.030
32598-10-0	PCB-66	4.2	J B	19	0.13
73575-53-8	PCB-67	ND		19	0.10
73575-52-7	PCB-68	0.23	J q U	19	0.099
41464-42-0	PCB-72	ND		19	0.11
74338-23-1	PCB-73	ND		19	0.034
32598-13-3	PCB-77	ND		1.9	0.14
70362-49-1	PCB-78	ND		19	0.13
41464-48-6	PCB-79	ND		19	0.11
33284-52-5	PCB-80	ND		19	0.11
70362-50-4	PCB-81	ND		1.9	0.14
52663-62-4	PCB-82	ND		19	0.27
60145-20-2	PCB-83	ND		19	0.27

02/7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI102-061313
Lab Sample ID: 320-3015-18
Matrix: Tissue
Lab File ID: 25JN1312D8_44.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.37(g)
Date Analyzed: 06/27/2013 18:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.68	J q U	19	0.23
STL01810	PCB-85/116/117	1.6	J	58	0.19
STL01811	PCB-86/87/97/108/119/125	3.4	J B	120	0.18
STL01812	PCB-88/91	ND		39	0.19
73575-57-2	PCB-89	ND		19	0.22
STL01813	PCB-90/101/113	8.4	J B	58	0.18
52663-61-3	PCB-92	1.4	J	19	0.21
STL01814	PCB-93/100	ND		39	0.20
73575-55-0	PCB-94	ND		19	0.20
38379-99-6	PCB-95	4.6	J B	19	0.19
73575-54-9	PCB-96	ND		19	0.038
STL01843	PCB-98/102	ND		39	0.19
38380-01-7	PCB-99	6.7	J	19	0.20
60145-21-3	PCB-103	ND		19	0.17
56558-16-8	PCB-104	ND		19	0.044
32598-14-4	PCB-105	2.3		1.9	0.19
70424-69-0	PCB-106	ND		19	0.19
STL01815	PCB-107/124	ND		39	0.18
74472-35-8	PCB-109	0.62	J	19	0.17
STL01826	PCB-110/115	4.2	J B	39	0.16
39635-32-0	PCB-111	ND		19	0.16
74472-36-9	PCB-112	ND		19	0.15
74472-37-0	PCB-114	ND		1.9	0.19
31508-00-6	PCB-118	8.4	B	1.9	0.18
68194-12-7	PCB-120	ND		19	0.16
56558-18-0	PCB-121	ND		19	0.15
76842-07-4	PCB-122	ND		19	0.21
65510-44-3	PCB-123	ND		1.9	0.20
57465-28-8	PCB-126	ND		1.9	0.21
39635-33-1	PCB-127	ND		19	0.19
STL01816	PCB-128/166	1.9	J	39	0.15
STL01817	PCB-129/138/163	22	J B	58	0.16
52663-66-8	PCB-130	0.76	J q U	19	0.20
61798-70-7	PCB-131	ND		19	0.19

C2 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI102-061313
Lab Sample ID: 320-3015-18
Matrix: Tissue
Lab File ID: 25JN1312D8_44.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.37(g)
Date Analyzed: 06/27/2013 18:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1.6	J	19	0.18
35694-04-3	PCB-133	0.41	J q U	19	0.18
STL01818	PCB-134/143	ND		39	0.18
STL01819	PCB-135/151	4.6	J	39	0.15
38411-22-2	PCB-136	1.0	J	19	0.11
35694-06-5	PCB-137	ND		19	0.17
STL01820	PCB-139/140	0.21	J q U	39	0.15
52712-04-6	PCB-141	ND		19	0.17
41411-61-4	PCB-142	ND		19	0.17
68194-14-9	PCB-144	0.45	J q U	19	0.15
74472-40-5	PCB-145	ND		19	0.11
51908-16-8	PCB-146	4.9	J	19	0.17
STL01821	PCB-147/149	9.5	J B	39	0.15
74472-41-6	PCB-148	ND		19	0.15
68194-08-1	PCB-150	ND		19	0.098
68194-09-2	PCB-152	ND		19	0.097
STL01822	PCB-153/168	32	J B	39	0.13
60145-22-4	PCB-154	0.26	J	19	0.13
33979-03-2	PCB-155	ND		19	0.10
STL01792	PCB-156/157	0.73	J	3.9	0.11
74472-42-7	PCB-158	1.0	J	19	0.12
39635-35-3	PCB-159	ND		19	0.094
41411-62-5	PCB-160	ND		19	0.14
74472-43-8	PCB-161	ND		19	0.13
39635-34-2	PCB-162	ND		19	0.091
74472-45-0	PCB-164	ND		19	0.12
74472-46-1	PCB-165	ND		19	0.14
52663-72-6	PCB-167	0.51	J	1.9	0.079
32774-16-6	PCB-169	ND		1.9	0.12
35065-30-6	PCB-170	0.23	J q UJ	19	0.069
STL01823	PCB-171/173	0.87	J J	39	0.066
52663-74-8	PCB-172	0.26	J q UJ	19	0.066
38411-25-5	PCB-174	ND	UJ	19	0.068
40186-70-7	PCB-175	0.15	J q UJ	19	0.077

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI102-061313 | Lab Sample ID: 320-3015-18

Matrix: Tissue | Lab File ID: 25JN1312D8_44.d

Analysis Method: 1668A | Date Collected: 06/13/2013 14:55

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.37(g) | Date Analyzed: 06/27/2013 18:08

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.38	J J	19	0.054
52663-70-4	PCB-177	2.2	J	19	0.067
52663-67-9	PCB-178	1.7	J	19	0.079
52663-64-6	PCB-179	1.7	J	19	0.060
STL01824	PCB-180/193	1.7	J	39	0.053
74472-47-2	PCB-181	ND	UJ	19	0.057
60145-23-5	PCB-182	ND		19	0.071
52663-69-1	PCB-183	2.5	J J	19	0.050
74472-48-3	PCB-184	0.18	J	19	0.059
52712-05-7	PCB-185	ND	UJ	19	0.062
74472-49-4	PCB-186	ND		19	0.057
52663-68-0	PCB-187	6.2	J J	19	0.074
74487-85-7	PCB-188	ND	UJ	19	0.040
39635-31-9	PCB-189	ND		1.9	0.22
41411-64-7	PCB-190	ND		19	0.049
74472-50-7	PCB-191	ND		19	0.048
74472-51-8	PCB-192	ND		19	0.050
35694-08-7	PCB-194	ND		19	0.11
52663-78-2	PCB-195	ND		19	0.11
42740-50-1	PCB-196	ND		19	0.13
33091-17-7	PCB-197	ND		19	0.085
STL01825	PCB-198/199	ND		39	0.13
52663-73-7	PCB-200	ND		19	0.097
40186-71-8	PCB-201	0.27	J q UJ	19	0.089
2136-99-4	PCB-202	0.66	J J	19	0.062
52663-76-0	PCB-203	ND	UJ	19	0.12
74472-52-9	PCB-204	ND		19	0.093
74472-53-0	PCB-205	ND		19	0.22
40186-72-9	PCB-206	ND		19	0.86
52663-79-3	PCB-207	ND	UJ	19	0.42
52663-77-1	PCB-208	ND		19	0.37
2051-24-3	PCB-209	ND		19	0.15
27323-18-8	Total Monochlorobiphenyls	2.2	J	190	0.25
25512-42-9	Total Dichlorobiphenyls	6.1	J q B U	190	2.0

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI102-061313 | Lab Sample ID: 320-3015-18

Matrix: Tissue | Lab File ID: 25JN1312D8_44.d

Analysis Method: 1668A | Date Collected: 06/13/2013 14:55

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.37(g) | Date Analyzed: 06/27/2013 18:08

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	18	J q B	190	0.22
26914-33-0	Total Tetrachlorobiphenyls	29	J q B	190	0.079
25429-29-2	Total Pentachlorobiphenyls	42	J q B	190	0.18
26601-64-9	Total Hexachlorobiphenyls	82	J q B	190	0.14
28655-71-2	Total Heptachlorobiphenyls	18	J q	J 190	0.068
55722-26-4	Total Octachlorobiphenyls	0.93	J q	J 190	0.11
53742-07-7	Total Nonachlorobiphenyls	ND		UJ 190	0.86

MH 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI103-061313
Lab Sample ID: 320-3015-19
Matrix: Tissue
Lab File ID: 25JN1312D8_45.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:14
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.21(g)
Date Analyzed: 06/27/2013 19:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.27
2051-61-8	PCB-2	1.8	J q U	20	0.25
2051-62-9	PCB-3	ND		20	0.24
13029-08-8	PCB-4	ND		20	3.4
16605-91-7	PCB-5	ND		20	1.7
25569-80-6	PCB-6	ND		20	1.7
33284-50-3	PCB-7	ND		20	1.6
34883-43-7	PCB-8	ND		20	1.7
34883-39-1	PCB-9	ND		20	1.8
33146-45-1	PCB-10	ND		20	2.0
2050-67-1	PCB-11	5.8	J q B U	20	1.8
STL01797	PCB-12/13	ND		39	1.8
34883-41-5	PCB-14	ND		20	1.5
2050-68-2	PCB-15	ND		20	1.7
38444-78-9	PCB-16	1.3	J B U	20	0.16
37680-66-3	PCB-17	0.60	J B	20	0.12
STL01798	PCB-18/30	2.8	J B	39	0.10
38444-73-4	PCB-19	ND		20	0.18
STL01799	PCB-20/28	5.7	J B	39	0.28
STL01800	PCB-21/33	2.1	J	39	0.26
38444-85-8	PCB-22	1.5	J	20	0.30
55720-44-0	PCB-23	ND		20	0.25
55702-45-9	PCB-24	ND		20	0.092
55712-37-3	PCB-25	ND		20	0.26
STL01801	PCB-26/29	0.70	J q U	39	0.26
38444-76-7	PCB-27	0.18	J q U	20	0.090
16606-02-3	PCB-31	5.4	J B	20	0.26
38444-77-8	PCB-32	0.26	J q B U	20	0.079
37680-68-5	PCB-34	ND		20	0.26
37680-69-6	PCB-35	ND		20	0.31
38444-87-0	PCB-36	ND		20	0.27
38444-90-5	PCB-37	0.60	J	20	0.29
53555-66-1	PCB-38	ND		20	0.30
38444-88-1	PCB-39	ND		20	0.28

FORM I 1668A

02/7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI103-061313
Lab Sample ID: 320-3015-19
Matrix: Tissue
Lab File ID: 25JN1312D8_45.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:14
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.21(g)
Date Analyzed: 06/27/2013 19:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	1.4	J	39	0.048
52663-59-9	PCB-41	0.32	J	20	0.059
36559-22-5	PCB-42	0.90	J B	20	0.050
70362-46-8	PCB-43	0.17	J q U	20	0.051
STL01803	PCB-44/47/65	5.0	J B	59	0.045
70362-45-7	PCB-45	0.30	J q U	20	0.049
41464-47-5	PCB-46	0.19	J	20	0.054
70362-47-9	PCB-48	0.79	J	20	0.048
STL01805	PCB-49/69	2.1	J B	39	0.039
STL01806	PCB-50/53	0.48	J B U	39	0.043
68194-04-7	PCB-51	ND		20	0.044
35693-99-3	PCB-52	8.4	J B	20	0.047
15968-05-5	PCB-54	ND		20	0.049
74338-24-2	PCB-55	ND		20	0.12
41464-43-1	PCB-56	1.1	J	20	0.14
70424-67-8	PCB-57	ND		20	0.12
41464-49-7	PCB-58	ND		20	0.12
STL01807	PCB-59/62/75	ND		59	0.035
33025-41-1	PCB-60	1.2	J	20	0.13
STL01808	PCB-61/70/74/76	11	J B	78	0.12
74472-34-7	PCB-63	ND		20	0.11
52663-58-8	PCB-64	0.97	J B	20	0.033
32598-10-0	PCB-66	5.7	J B	20	0.14
73575-53-8	PCB-67	ND		20	0.11
73575-52-7	PCB-68	0.28	J	20	0.11
41464-42-0	PCB-72	ND		20	0.12
74338-23-1	PCB-73	ND		20	0.038
32598-13-3	PCB-77	ND		2.0	0.16
70362-49-1	PCB-78	ND		20	0.14
41464-48-6	PCB-79	ND		20	0.12
33284-52-5	PCB-80	ND		20	0.12
70362-50-4	PCB-81	ND		2.0	0.16
52663-62-4	PCB-82	0.47	J	20	0.20
60145-20-2	PCB-83	ND		20	0.20

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI103-061313
Lab Sample ID: 320-3015-19
Matrix: Tissue
Lab File ID: 25JN1312D8_45.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:14
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.21(g)
Date Analyzed: 06/27/2013 19:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	1.0	J	20	0.17
STL01810	PCB-85/116/117	1.8	J	59	0.14
STL01811	PCB-86/87/97/108/119/125	4.2	J B	120	0.14
STL01812	PCB-88/91	0.49	J	39	0.14
73575-57-2	PCB-89	ND		20	0.16
STL01813	PCB-90/101/113	9.4	J B	59	0.14
52663-61-3	PCB-92	1.7	J	20	0.15
STL01814	PCB-93/100	ND		39	0.14
73575-55-0	PCB-94	ND		20	0.15
38379-99-6	PCB-95	5.4	J B	20	0.14
73575-54-9	PCB-96	ND		20	0.028
STL01843	PCB-98/102	ND		39	0.14
38380-01-7	PCB-99	7.3	J	20	0.15
60145-21-3	PCB-103	ND		20	0.13
56558-16-8	PCB-104	ND		20	0.032
32598-14-4	PCB-105	2.5		2.0	0.14
70424-69-0	PCB-106	ND		20	0.14
STL01815	PCB-107/124	0.20	J q U	39	0.13
74472-35-8	PCB-109	0.64	J	20	0.12
STL01826	PCB-110/115	4.5	J B	39	0.12
39635-32-0	PCB-111	ND		20	0.12
74472-36-9	PCB-112	ND		20	0.11
74472-37-0	PCB-114	ND		2.0	0.14
31508-00-6	PCB-118	8.8	B	2.0	0.14
68194-12-7	PCB-120	ND		20	0.12
56558-18-0	PCB-121	ND		20	0.11
76842-07-4	PCB-122	ND		20	0.15
65510-44-3	PCB-123	ND		2.0	0.16
57465-28-8	PCB-126	ND		2.0	0.15
39635-33-1	PCB-127	ND		20	0.14
STL01816	PCB-128/166	1.6	J	39	0.13
STL01817	PCB-129/138/163	19	J B	59	0.14
52663-66-8	PCB-130	0.83	J q U	20	0.18
61798-70-7	PCB-131	ND		20	0.17

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI103-061313
Lab Sample ID: 320-3015-19
Matrix: Tissue
Lab File ID: 25JN1312D8_45.d
Analysis Method: 1668A
Date Collected: 06/13/2013 14:14
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.21(g)
Date Analyzed: 06/27/2013 19:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1.7	J	20	0.16
35694-04-3	PCB-133	0.34	J q U	20	0.16
STL01818	PCB-134/143	ND		39	0.16
STL01819	PCB-135/151	4.7	J	39	0.14
38411-22-2	PCB-136	1.1	J	20	0.097
35694-06-5	PCB-137	0.53	J q U	20	0.15
STL01820	PCB-139/140	ND		39	0.14
52712-04-6	PCB-141	ND		20	0.16
41411-61-4	PCB-142	ND		20	0.16
68194-14-9	PCB-144	0.41	J q U	20	0.14
74472-40-5	PCB-145	ND		20	0.096
51908-16-8	PCB-146	4.4	J	20	0.15
STL01821	PCB-147/149	9.1	J B	39	0.14
74472-41-6	PCB-148	ND		20	0.13
68194-08-1	PCB-150	ND		20	0.089
68194-09-2	PCB-152	ND		20	0.088
STL01822	PCB-153/168	27	J B	39	0.12
60145-22-4	PCB-154	0.28	J	20	0.12
33979-03-2	PCB-155	ND		20	0.090
STL01792	PCB-156/157	0.55	J	3.9	0.11
74472-42-7	PCB-158	0.92	J	20	0.11
39635-35-3	PCB-159	ND		20	0.088
41411-62-5	PCB-160	ND		20	0.13
74472-43-8	PCB-161	ND		20	0.11
39635-34-2	PCB-162	ND		20	0.085
74472-45-0	PCB-164	0.19	J	20	0.11
74472-46-1	PCB-165	ND		20	0.13
52663-72-6	PCB-167	0.48	J	2.0	0.074
32774-16-6	PCB-169	ND		2.0	0.11
35065-30-6	PCB-170	0.19	J q UJ	20	0.066
STL01823	PCB-171/173	0.75	J J	39	0.063
52663-74-8	PCB-172	0.43	J q UJ	20	0.063
38411-25-5	PCB-174	0.20	J J	20	0.065
40186-70-7	PCB-175	0.14	J q UJ	20	0.11

027/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI103-061313 | Lab Sample ID: 320-3015-19

Matrix: Tissue | Lab File ID: 25JN1312D8_45.d

Analysis Method: 1668A | Date Collected: 06/13/2013 14:14

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.21(g) | Date Analyzed: 06/27/2013 19:21

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.33	J J	20	0.079
52663-70-4	PCB-177	2.0	J	20	0.064
52663-67-9	PCB-178	1.5	J	20	0.12
52663-64-6	PCB-179	1.7	J	20	0.087
STL01824	PCB-180/193	1.4	J	39	0.051
74472-47-2	PCB-181	ND	J	20	0.054
60145-23-5	PCB-182	ND		20	0.10
52663-69-1	PCB-183	1.8	J J	20	0.048
74472-48-3	PCB-184	0.22	J J	20	0.087
52712-05-7	PCB-185	ND	J	20	0.059
74472-49-4	PCB-186	ND		20	0.083
52663-68-0	PCB-187	5.6	J J	20	0.11
74487-85-7	PCB-188	ND	J	20	0.059
39635-31-9	PCB-189	ND		2.0	0.23
41411-64-7	PCB-190	0.23	J q	20	0.047
74472-50-7	PCB-191	ND		20	0.045
74472-51-8	PCB-192	0.10	J J	20	0.047
35694-08-7	PCB-194	ND	J	20	0.12
52663-78-2	PCB-195	ND		20	0.11
42740-50-1	PCB-196	ND		20	0.11
33091-17-7	PCB-197	ND		20	0.074
STL01825	PCB-198/199	ND		39	0.11
52663-73-7	PCB-200	ND		20	0.084
40186-71-8	PCB-201	0.30	J q	20	0.078
2136-99-4	PCB-202	0.59	J J	20	0.054
52663-76-0	PCB-203	ND	J	20	0.10
74472-52-9	PCB-204	ND		20	0.081
74472-53-0	PCB-205	ND		20	0.23
40186-72-9	PCB-206	ND		20	1.0
52663-79-3	PCB-207	ND	J	20	0.51
52663-77-1	PCB-208	ND		20	0.45
2051-24-3	PCB-209	ND		20	0.16
27323-18-8	Total Monochlorobiphenyls	1.8	J q U	200	0.25
25512-42-9	Total Dichlorobiphenyls	5.8	J q B U	200	1.9

FORM I 1668A

02 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI103-061313 | Lab Sample ID: 320-3015-19

Matrix: Tissue | Lab File ID: 25JN1312D8_45.d

Analysis Method: 1668A | Date Collected: 06/13/2013 14:14

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.21(g) | Date Analyzed: 06/27/2013 19:21

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	21	J q B	200	0.22
26914-33-0	Total Tetrachlorobiphenyls	40	J q B	200	0.087
25429-29-2	Total Pentachlorobiphenyls	49	J q B	200	0.14
26601-64-9	Total Hexachlorobiphenyls	73	J q B	200	0.13
28655-71-2	Total Heptachlorobiphenyls	17	J q	J 200	0.079
55722-26-4	Total Octachlorobiphenyls	0.89	J q	J 200	0.10
53742-07-7	Total Nonachlorobiphenyls	ND		UJ 200	1.0

14:08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI104-061313
Lab Sample ID: 320-3015-20
Matrix: Tissue
Lab File ID: 25JN1312D8_46.d
Analysis Method: 1668A
Date Collected: 06/13/2013 11:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.18(g)
Date Analyzed: 06/27/2013 20:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.25
2051-61-8	PCB-2	7.2	J	20	0.21
2051-62-9	PCB-3	ND		20	0.20
13029-08-8	PCB-4	ND		20	3.0
16605-91-7	PCB-5	ND		20	1.4
25569-80-6	PCB-6	ND		20	1.4
33284-50-3	PCB-7	ND		20	1.2
34883-43-7	PCB-8	ND		20	1.3
34883-39-1	PCB-9	ND		20	1.4
33146-45-1	PCB-10	ND		20	1.7
2050-67-1	PCB-11	5.3	J q B U	20	1.4
STL01797	PCB-12/13	ND		39	1.4
34883-41-5	PCB-14	ND		20	1.2
2050-68-2	PCB-15	ND		20	1.3
38444-78-9	PCB-16	1.1	J B U	20	0.11
37680-66-3	PCB-17	0.77	J B	20	0.083
STL01798	PCB-18/30	2.1	J B	39	0.070
38444-73-4	PCB-19	ND		20	0.12
STL01799	PCB-20/28	4.7	J B	39	0.20
STL01800	PCB-21/33	2.0	J	39	0.18
38444-85-8	PCB-22	1.4	J	20	0.21
55720-44-0	PCB-23	ND		20	0.18
55702-45-9	PCB-24	ND		20	0.063
55712-37-3	PCB-25	ND		20	0.18
STL01801	PCB-26/29	0.65	J	39	0.18
38444-76-7	PCB-27	0.11	J q U	20	0.062
16606-02-3	PCB-31	3.6	J B U	20	0.18
38444-77-8	PCB-32	0.41	J B U	20	0.054
37680-68-5	PCB-34	ND		20	0.18
37680-69-6	PCB-35	ND		20	0.22
38444-87-0	PCB-36	ND		20	0.19
38444-90-5	PCB-37	0.86	J	20	0.20
53555-66-1	PCB-38	ND		20	0.21
38444-88-1	PCB-39	ND		20	0.20

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI104-061313
Lab Sample ID: 320-3015-20
Matrix: Tissue
Lab File ID: 25JN1312D8_46.d
Analysis Method: 1668A
Date Collected: 06/13/2013 11:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.18(g)
Date Analyzed: 06/27/2013 20:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.91	J q U	39	0.037
52663-59-9	PCB-41	0.20	J	20	0.045
36559-22-5	PCB-42	0.64	J B	20	0.039
70362-46-8	PCB-43	0.14	J	20	0.039
STL01803	PCB-44/47/65	3.2	J B	59	0.034
70362-45-7	PCB-45	0.13	J q U	20	0.038
41464-47-5	PCB-46	0.091	J q U	20	0.042
70362-47-9	PCB-48	0.58	J	20	0.037
STL01805	PCB-49/69	1.3	J B U	39	0.030
STL01806	PCB-50/53	0.27	J B U	39	0.033
68194-04-7	PCB-51	ND		20	0.034
35693-99-3	PCB-52	4.3	J B	20	0.036
15968-05-5	PCB-54	ND		20	0.050
74338-24-2	PCB-55	ND		20	0.14
41464-43-1	PCB-56	0.82	J	20	0.15
70424-67-8	PCB-57	ND		20	0.14
41464-49-7	PCB-58	ND		20	0.14
STL01807	PCB-59/62/75	0.24	J q U	59	0.027
33025-41-1	PCB-60	0.83	J q U	20	0.15
STL01808	PCB-61/70/74/76	6.7	J B	79	0.14
74472-34-7	PCB-63	ND		20	0.13
52663-58-8	PCB-64	0.76	J B U	20	0.026
32598-10-0	PCB-66	3.7	J B	20	0.16
73575-53-8	PCB-67	ND		20	0.13
73575-52-7	PCB-68	ND		20	0.12
41464-42-0	PCB-72	ND		20	0.13
74338-23-1	PCB-73	ND		20	0.029
32598-13-3	PCB-77	ND		2.0	0.18
70362-49-1	PCB-78	ND		20	0.16
41464-48-6	PCB-79	ND		20	0.14
33284-52-5	PCB-80	ND		20	0.13
70362-50-4	PCB-81	ND		2.0	0.19
52663-62-4	PCB-82	ND		20	0.17
60145-20-2	PCB-83	ND		20	0.17

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI104-061313
Lab Sample ID: 320-3015-20
Matrix: Tissue
Lab File ID: 25JN1312D8_46.d
Analysis Method: 1668A
Date Collected: 06/13/2013 11:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.18(g)
Date Analyzed: 06/27/2013 20:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.49	J q ✓	20	0.15
STL01810	PCB-85/116/117	1.1	J	59	0.12
STL01811	PCB-86/87/97/108/119/125	2.4	J B	120	0.12
STL01812	PCB-88/91	0.25	J q ✓	39	0.12
73575-57-2	PCB-89	ND		20	0.14
STL01813	PCB-90/101/113	4.8	J B	59	0.12
52663-61-3	PCB-92	0.96	J	20	0.13
STL01814	PCB-93/100	ND		39	0.13
73575-55-0	PCB-94	ND		20	0.13
38379-99-6	PCB-95	2.6	J B	20	0.12
73575-54-9	PCB-96	ND		20	0.033
STL01843	PCB-98/102	ND		39	0.12
38380-01-7	PCB-99	4.4	J	20	0.13
60145-21-3	PCB-103	ND		20	0.11
56558-16-8	PCB-104	ND		20	0.037
32598-14-4	PCB-105	1.6	J	2.0	0.13
70424-69-0	PCB-106	ND		20	0.12
STL01815	PCB-107/124	ND		39	0.12
74472-35-8	PCB-109	0.38	J	20	0.11
STL01826	PCB-110/115	2.5	J B	39	0.10
39635-32-0	PCB-111	ND		20	0.10
74472-36-9	PCB-112	ND		20	0.096
74472-37-0	PCB-114	ND		2.0	0.12
31508-00-6	PCB-118	5.8	B	2.0	0.12
68194-12-7	PCB-120	ND		20	0.11
56558-18-0	PCB-121	ND		20	0.094
76842-07-4	PCB-122	ND		20	0.13
65510-44-3	PCB-123	ND		2.0	0.14
57465-28-8	PCB-126	ND		2.0	0.14
39635-33-1	PCB-127	ND		20	0.12
STL01816	PCB-128/166	1.0	J q ✓	39	0.19
STL01817	PCB-129/138/163	13	J B	59	0.20
52663-66-8	PCB-130	0.54	J q ✓	20	0.26
61798-70-7	PCB-131	ND		20	0.25

02/13/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI104-061313 | Lab Sample ID: 320-3015-20

Matrix: Tissue | Lab File ID: 25JN1312D8_46.d

Analysis Method: 1668A | Date Collected: 06/13/2013 11:20

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.18(g) | Date Analyzed: 06/27/2013 20:34

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1.3	J	20	0.23
35694-04-3	PCB-133	ND		20	0.23
STL01818	PCB-134/143	ND		39	0.23
STL01819	PCB-135/151	3.0	J	39	0.20
38411-22-2	PCB-136	0.60	J	20	0.14
35694-06-5	PCB-137	ND		20	0.22
STL01820	PCB-139/140	ND		39	0.20
52712-04-6	PCB-141	3.1	J	20	0.22
41411-61-4	PCB-142	ND		20	0.23
68194-14-9	PCB-144	ND		20	0.19
74472-40-5	PCB-145	ND		20	0.14
51908-16-8	PCB-146	3.2	J	20	0.22
STL01821	PCB-147/149	6.4	J B	39	0.20
74472-41-6	PCB-148	ND		20	0.19
68194-08-1	PCB-150	ND		20	0.13
68194-09-2	PCB-152	ND		20	0.13
STL01822	PCB-153/168	19	J B	39	0.17
60145-22-4	PCB-154	ND		20	0.17
33979-03-2	PCB-155	ND		20	0.14
STL01792	PCB-156/157	0.42	J q U	3.9	0.11
74472-42-7	PCB-158	0.60	J	20	0.15
39635-35-3	PCB-159	ND		20	0.10
41411-62-5	PCB-160	ND		20	0.18
74472-43-8	PCB-161	ND		20	0.16
39635-34-2	PCB-162	ND		20	0.096
74472-45-0	PCB-164	ND		20	0.16
74472-46-1	PCB-165	ND		20	0.18
52663-72-6	PCB-167	0.31	J	2.0	0.082
32774-16-6	PCB-169	ND		2.0	0.13
35065-30-6	PCB-170	0.67	J J	20	0.069
STL01823	PCB-171/173	0.60	J q UJ	39	0.066
52663-74-8	PCB-172	1.8	J J	20	0.066
38411-25-5	PCB-174	0.90	J J	20	0.068
40186-70-7	PCB-175	ND	UJ	20	0.11

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI104-061313 | Lab Sample ID: 320-3015-20

Matrix: Tissue | Lab File ID: 25JN1312D8_46.d

Analysis Method: 1668A | Date Collected: 06/13/2013 11:20

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.18(g) | Date Analyzed: 06/27/2013 20:34

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19572 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.27	J	20	0.080
52663-70-4	PCB-177	1.7	J	20	0.067
52663-67-9	PCB-178	1.1	J q	20	0.12
52663-64-6	PCB-179	1.3	J	20	0.088
STL01824	PCB-180/193	2.8	J	39	0.053
74472-47-2	PCB-181	ND		20	0.056
60145-23-5	PCB-182	ND		20	0.10
52663-69-1	PCB-183	1.5	J q	20	0.050
74472-48-3	PCB-184	ND		20	0.088
52712-05-7	PCB-185	ND		20	0.061
74472-49-4	PCB-186	ND		20	0.084
52663-68-0	PCB-187	5.0	J	20	0.11
74487-85-7	PCB-188	ND		20	0.058
39635-31-9	PCB-189	ND		2.0	0.21
41411-64-7	PCB-190	0.16	J q	20	0.049
74472-50-7	PCB-191	ND		20	0.047
74472-51-8	PCB-192	0.18	J	20	0.049
35694-08-7	PCB-194	0.23	J	20	0.11
52663-78-2	PCB-195	0.15	J	20	0.10
42740-50-1	PCB-196	0.30	J q	20	0.14
33091-17-7	PCB-197	ND		20	0.091
STL01825	PCB-198/199	0.74	J	39	0.14
52663-73-7	PCB-200	ND		20	0.10
40186-71-8	PCB-201	0.30	J	20	0.096
2136-99-4	PCB-202	0.46	J	20	0.063
52663-76-0	PCB-203	0.37	J	20	0.13
74472-52-9	PCB-204	ND		20	0.10
74472-53-0	PCB-205	ND		20	0.27
40186-72-9	PCB-206	ND		20	1.1
52663-79-3	PCB-207	ND		20	0.55
52663-77-1	PCB-208	ND		20	0.48
2051-24-3	PCB-209	ND		20	0.14
27323-18-8	Total Monochlorobiphenyls	7.2	J	200	0.22
25512-42-9	Total Dichlorobiphenyls	5.3	J q B	200	1.5

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI104-061313
Lab Sample ID: 320-3015-20
Matrix: Tissue
Lab File ID: 25JN1312D8_46.d
Analysis Method: 1668A
Date Collected: 06/13/2013 11:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.18(g)
Date Analyzed: 06/27/2013 20:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19572
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	18	J q B	200	0.15
26914-33-0	Total Tetrachlorobiphenyls	25	J q B	200	0.090
25429-29-2	Total Pentachlorobiphenyls	27	J q B	200	0.12
26601-64-9	Total Hexachlorobiphenyls	53	J q B	200	0.18
28655-71-2	Total Heptachlorobiphenyls	18	J q	J 200	0.079
55722-26-4	Total Octachlorobiphenyls	2.6	J q	J 200	0.12
53742-07-7	Total Nonachlorobiphenyls	ND		UJ 200	1.1

1440 8/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI105-061313
Lab Sample ID: 320-3015-21
Matrix: Tissue
Lab File ID: 25JN1312D8_51.d
Analysis Method: 1668A
Date Collected: 06/13/2013 12:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.41(g)
Date Analyzed: 06/28/2013 02:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.28
2051-61-8	PCB-2	1.9	J	19	0.24
2051-62-9	PCB-3	ND		19	0.23
13029-08-8	PCB-4	ND		19	2.2
16605-91-7	PCB-5	ND		19	1.4
25569-80-6	PCB-6	ND		19	1.3
33284-50-3	PCB-7	ND		19	1.2
34883-43-7	PCB-8	ND		19	1.3
34883-39-1	PCB-9	ND		19	1.4
33146-45-1	PCB-10	ND		19	1.3
2050-67-1	PCB-11	4.5	J q B U	19	1.4
STL01797	PCB-12/13	ND		38	1.4
34883-41-5	PCB-14	ND		19	1.2
2050-68-2	PCB-15	ND		19	1.3
38444-78-9	PCB-16	1.2	J B U	19	0.13
37680-66-3	PCB-17	0.59	J B	19	0.10
STL01798	PCB-18/30	1.8	J B	38	0.087
38444-73-4	PCB-19	ND		19	0.15
STL01799	PCB-20/28	5.0	J B	38	0.30
STL01800	PCB-21/33	2.0	J	38	0.28
38444-85-8	PCB-22	1.5	J	19	0.32
55720-44-0	PCB-23	ND		19	0.28
55702-45-9	PCB-24	ND		19	0.078
55712-37-3	PCB-25	ND		19	0.28
STL01801	PCB-26/29	0.74	J	38	0.28
38444-76-7	PCB-27	0.16	J q U	19	0.076
16606-02-3	PCB-31	4.7	J B	19	0.28
38444-77-8	PCB-32	0.30	J B U	19	0.067
37680-68-5	PCB-34	ND		19	0.28
37680-69-6	PCB-35	ND		19	0.33
38444-87-0	PCB-36	ND		19	0.29
38444-90-5	PCB-37	0.76	J	19	0.31
53555-66-1	PCB-38	ND		19	0.32
38444-88-1	PCB-39	ND		19	0.30

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI105-061313 | Lab Sample ID: 320-3015-21

Matrix: Tissue | Lab File ID: 25JN1312D8_51.d

Analysis Method: 1668A | Date Collected: 06/13/2013 12:20

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.41(g) | Date Analyzed: 06/28/2013 02:55

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	1.3	J	38	0.042
52663-59-9	PCB-41	0.15	J q U	19	0.053
36559-22-5	PCB-42	0.73	J B	19	0.045
70362-46-8	PCB-43	ND		19	0.045
STL01803	PCB-44/47/65	4.2	J B	58	0.040
70362-45-7	PCB-45	0.26	J q U	19	0.044
41464-47-5	PCB-46	0.12	J	19	0.048
70362-47-9	PCB-48	0.61	J q U	19	0.043
STL01805	PCB-49/69	1.6	J B	38	0.035
STL01806	PCB-50/53	0.37	J B U	38	0.038
68194-04-7	PCB-51	ND		19	0.040
35693-99-3	PCB-52	6.6	J B	19	0.042
15968-05-5	PCB-54	ND		19	0.058
74338-24-2	PCB-55	ND		19	0.12
41464-43-1	PCB-56	1.0	J	19	0.13
70424-67-8	PCB-57	ND		19	0.12
41464-49-7	PCB-58	ND		19	0.12
STL01807	PCB-59/62/75	0.26	J q U	58	0.031
33025-41-1	PCB-60	1.2	J	19	0.13
STL01808	PCB-61/70/74/76	9.0	J B	77	0.12
74472-34-7	PCB-63	ND		19	0.11
52663-58-8	PCB-64	0.78	J B U	19	0.030
32598-10-0	PCB-66	4.4	J B	19	0.13
73575-53-8	PCB-67	ND		19	0.11
73575-52-7	PCB-68	0.25	J q U	19	0.11
41464-42-0	PCB-72	ND		19	0.12
74338-23-1	PCB-73	ND		19	0.033
32598-13-3	PCB-77	ND		1.9	0.15
70362-49-1	PCB-78	ND		19	0.13
41464-48-6	PCB-79	ND		19	0.12
33284-52-5	PCB-80	ND		19	0.11
70362-50-4	PCB-81	ND		1.9	0.14
52663-62-4	PCB-82	0.35	J	19	0.20
60145-20-2	PCB-83	0.27	J q U	19	0.20

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI105-061313
Lab Sample ID: 320-3015-21
Matrix: Tissue
Lab File ID: 25JN1312D8_51.d
Analysis Method: 1668A
Date Collected: 06/13/2013 12:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.41(g)
Date Analyzed: 06/28/2013 02:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	0.82	J	19	0.17
STL01810	PCB-85/116/117	1.3	J	58	0.14
STL01811	PCB-86/87/97/108/119/125	3.0	J B	120	0.14
STL01812	PCB-88/91	0.30	J q U	38	0.14
73575-57-2	PCB-89	ND		19	0.17
STL01813	PCB-90/101/113	7.4	J B	58	0.14
52663-61-3	PCB-92	1.3	J	19	0.16
STL01814	PCB-93/100	ND		38	0.14
73575-55-0	PCB-94	ND		19	0.15
38379-99-6	PCB-95	4.3	J B	19	0.14
73575-54-9	PCB-96	ND		19	0.035
STL01843	PCB-98/102	ND		38	0.14
38380-01-7	PCB-99	5.6	J	19	0.15
60145-21-3	PCB-103	ND		19	0.13
56558-16-8	PCB-104	ND		19	0.038
32598-14-4	PCB-105	1.9		1.9	0.14
70424-69-0	PCB-106	ND		19	0.14
STL01815	PCB-107/124	0.20	J q U	38	0.13
74472-35-8	PCB-109	0.47	J	19	0.12
STL01826	PCB-110/115	3.1	J B	38	0.12
39635-32-0	PCB-111	ND		19	0.12
74472-36-9	PCB-112	ND		19	0.11
74472-37-0	PCB-114	ND		1.9	0.14
31508-00-6	PCB-118	6.8	B	1.9	0.14
68194-12-7	PCB-120	ND		19	0.12
56558-18-0	PCB-121	ND		19	0.11
76842-07-4	PCB-122	ND		19	0.15
65510-44-3	PCB-123	ND		1.9	0.090
57465-28-8	PCB-126	ND		1.9	0.16
39635-33-1	PCB-127	ND		19	0.14
STL01816	PCB-128/166	1.2	J	38	0.11
STL01817	PCB-129/138/163	13	J B	58	0.12
52663-66-8	PCB-130	0.48	J q U	19	0.15
61798-70-7	PCB-131	ND		19	0.14

C27/3d13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI105-061313 | Lab Sample ID: 320-3015-21

Matrix: Tissue | Lab File ID: 25JN1312D8_51.d

Analysis Method: 1668A | Date Collected: 06/13/2013 12:20

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.41(g) | Date Analyzed: 06/28/2013 02:55

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1.1	J	19	0.13
35694-04-3	PCB-133	0.26	J	19	0.13
STL01818	PCB-134/143	ND		38	0.13
STL01819	PCB-135/151	3.4	J	38	0.11
38411-22-2	PCB-136	0.76	J	19	0.079
35694-06-5	PCB-137	0.18	J q U	19	0.13
STL01820	PCB-139/140	0.16	J q U	38	0.11
52712-04-6	PCB-141	0.37	J	19	0.13
41411-61-4	PCB-142	ND		19	0.13
68194-14-9	PCB-144	0.33	J	19	0.11
74472-40-5	PCB-145	ND		19	0.078
51908-16-8	PCB-146	3.0	J	19	0.13
STL01821	PCB-147/149	6.6	J B	38	0.11
74472-41-6	PCB-148	ND		19	0.11
68194-08-1	PCB-150	ND		19	0.073
68194-09-2	PCB-152	ND		19	0.072
STL01822	PCB-153/168	17	J B	38	0.098
60145-22-4	PCB-154	0.19	J	19	0.099
33979-03-2	PCB-155	ND		19	0.076
STL01792	PCB-156/157	0.40	J	3.8	0.079
74472-42-7	PCB-158	0.49	J	19	0.089
39635-35-3	PCB-159	ND		19	0.067
41411-62-5	PCB-160	ND		19	0.10
74472-43-8	PCB-161	ND		19	0.093
39635-34-2	PCB-162	ND		19	0.065
74472-45-0	PCB-164	ND		19	0.092
74472-46-1	PCB-165	ND		19	0.11
52663-72-6	PCB-167	0.33	J	1.9	0.057
32774-16-6	PCB-169	ND		1.9	0.089
35065-30-6	PCB-170	0.14	J q UJ	19	0.058
STL01823	PCB-171/173	0.45	J J	38	0.055
52663-74-8	PCB-172	0.14	J q UJ	19	0.055
38411-25-5	PCB-174	0.12	J J	19	0.057
40186-70-7	PCB-175	ND	UJ	19	0.10

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: BI105-061313 | Lab Sample ID: 320-3015-21

Matrix: Tissue | Lab File ID: 25JN1312D8_51.d

Analysis Method: 1668A | Date Collected: 06/13/2013 12:20

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.41(g) | Date Analyzed: 06/28/2013 02:55

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	0.19	J J	19	0.074
52663-70-4	PCB-177	0.87	J q UJ	19	0.056
52663-67-9	PCB-178	0.93	J J	19	0.11
52663-64-6	PCB-179	1.1	J	19	0.081
STL01824	PCB-180/193	0.97	J	38	0.044
74472-47-2	PCB-181	ND	UJ	19	0.047
60145-23-5	PCB-182	ND		19	0.097
52663-69-1	PCB-183	1.3	J J	19	0.042
74472-48-3	PCB-184	0.12	J q UJ	19	0.081
52712-05-7	PCB-185	ND		19	0.051
74472-49-4	PCB-186	ND		19	0.077
52663-68-0	PCB-187	2.9	J J	19	0.10
74487-85-7	PCB-188	ND	UJ	19	0.055
39635-31-9	PCB-189	ND		1.9	0.20
41411-64-7	PCB-190	0.072	J q UJ	19	0.041
74472-50-7	PCB-191	ND		19	0.040
74472-51-8	PCB-192	ND		19	0.041
35694-08-7	PCB-194	ND		19	0.16
52663-78-2	PCB-195	ND		19	0.15
42740-50-1	PCB-196	ND		19	0.11
33091-17-7	PCB-197	ND		19	0.074
STL01825	PCB-198/199	ND		38	0.12
52663-73-7	PCB-200	ND		19	0.085
40186-71-8	PCB-201	0.22	J q UJ	19	0.078
2136-99-4	PCB-202	0.36	J J	19	0.056
52663-76-0	PCB-203	ND	UJ	19	0.10
74472-52-9	PCB-204	ND		19	0.082
74472-53-0	PCB-205	ND		19	0.28
40186-72-9	PCB-206	ND		19	0.38
52663-79-3	PCB-207	ND	UJ	19	0.20
52663-77-1	PCB-208	ND		19	0.19
2051-24-3	PCB-209	ND		19	0.21
27323-18-8	Total Monochlorobiphenyls	1.9	J	190	0.25
25512-42-9	Total Dichlorobiphenyls	4.5	J q B U	190	1.4

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: BI105-061313
Lab Sample ID: 320-3015-21
Matrix: Tissue
Lab File ID: 25JN1312D8_51.d
Analysis Method: 1668A
Date Collected: 06/13/2013 12:20
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.41(g)
Date Analyzed: 06/28/2013 02:55
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	19	J q B	190	0.23
26914-33-0	Total Tetrachlorobiphenyls	33	J q B	190	0.082
25429-29-2	Total Pentachlorobiphenyls	37	J q B	190	0.14
26601-64-9	Total Hexachlorobiphenyls	50	J q B	190	0.10
28655-71-2	Total Heptachlorobiphenyls	9.3	J q	J 190	0.071
55722-26-4	Total Octachlorobiphenyls	0.58	J q	J 190	0.12
53742-07-7	Total Nonachlorobiphenyls	ND		UJ 190	0.38

LH 8/7/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW25-061513
Lab Sample ID: 320-3015-22
Matrix: Tissue
Lab File ID: 25JN1312D8_52.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:10
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 04:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.26
2051-61-8	PCB-2	1.6	J	20	0.25
2051-62-9	PCB-3	ND		20	0.25
13029-08-8	PCB-4	ND		20	2.5
16605-91-7	PCB-5	ND		20	1.8
25569-80-6	PCB-6	ND		20	1.8
33284-50-3	PCB-7	ND		20	1.6
34883-43-7	PCB-8	5.2	J q U	20	1.7
34883-39-1	PCB-9	ND		20	1.9
33146-45-1	PCB-10	ND		20	1.4
2050-67-1	PCB-11	6.7	J q B U	20	1.8
STL01797	PCB-12/13	ND		40	1.9
34883-41-5	PCB-14	ND		20	1.6
2050-68-2	PCB-15	4.8	J q U	20	1.8
38444-78-9	PCB-16	5.2	J B	20	0.16
37680-66-3	PCB-17	2.5	J B	20	0.12
STL01798	PCB-18/30	11	J B	40	0.10
38444-73-4	PCB-19	0.90	J	20	0.19
STL01799	PCB-20/28	35	J B	40	0.61
STL01800	PCB-21/33	12	J	40	0.57
38444-85-8	PCB-22	8.8	J	20	0.65
55720-44-0	PCB-23	ND		20	0.56
55702-45-9	PCB-24	0.16	J q U	20	0.093
55712-37-3	PCB-25	1.6	J	20	0.57
STL01801	PCB-26/29	5.1	J	40	0.57
38444-76-7	PCB-27	0.93	J	20	0.091
16606-02-3	PCB-31	27	B	20	0.56
38444-77-8	PCB-32	1.6	J B	20	0.080
37680-68-5	PCB-34	ND		20	0.57
37680-69-6	PCB-35	ND		20	0.68
38444-87-0	PCB-36	ND		20	0.60
38444-90-5	PCB-37	5.4	J	20	0.61
53555-66-1	PCB-38	ND		20	0.65
38444-88-1	PCB-39	ND		20	0.61

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW25-061513
Lab Sample ID: 320-3015-22
Matrix: Tissue
Lab File ID: 25JN1312D8_52.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:10
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 04:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	11	J	40	0.13
52663-59-9	PCB-41	2.4	J	20	0.16
36559-22-5	PCB-42	8.3	J B	20	0.14
70362-46-8	PCB-43	1.1	J	20	0.14
STL01803	PCB-44/47/65	49	J B	59	0.12
70362-45-7	PCB-45	1.4	J	20	0.14
41464-47-5	PCB-46	ND		20	0.15
70362-47-9	PCB-48	4.6	J	20	0.13
STL01805	PCB-49/69	28	J B	40	0.11
STL01806	PCB-50/53	3.3	J B	40	0.12
68194-04-7	PCB-51	ND		20	0.12
35693-99-3	PCB-52	90	B	20	0.13
15968-05-5	PCB-54	ND		20	0.057
74338-24-2	PCB-55	ND		20	0.74
41464-43-1	PCB-56	8.4	J	20	0.83
70424-67-8	PCB-57	4.9	J	20	0.75
41464-49-7	PCB-58	ND		20	0.75
STL01807	PCB-59/62/75	3.6	J	59	0.097
33025-41-1	PCB-60	16	J	20	0.78
STL01808	PCB-61/70/74/76	140	B	79	0.73
74472-34-7	PCB-63	2.1	J q U	20	0.69
52663-58-8	PCB-64	11	J B	20	0.092
32598-10-0	PCB-66	78	B	20	0.83
73575-53-8	PCB-67	1.4	J	20	0.69
73575-52-7	PCB-68	1.5	J	20	0.66
41464-42-0	PCB-72	ND		20	0.72
74338-23-1	PCB-73	ND		20	0.10
32598-13-3	PCB-77	3.9		2.0	0.95
70362-49-1	PCB-78	ND		20	0.84
41464-48-6	PCB-79	3.9	J	20	0.74
33284-52-5	PCB-80	ND		20	0.70
70362-50-4	PCB-81	ND		2.0	0.95
52663-62-4	PCB-82	13	J	20	5.8
60145-20-2	PCB-83	ND		20	5.7

02 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW25-061513
Lab Sample ID: 320-3015-22
Matrix: Tissue
Lab File ID: 25JN1312D8_52.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:10
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 04:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	22		20	5.0
STL01810	PCB-85/116/117	45	J	59	4.0
STL01811	PCB-86/87/97/108/119/125	130	B	120	3.9
STL01812	PCB-88/91	12	J	40	4.1
73575-57-2	PCB-89	ND		20	4.8
STL01813	PCB-90/101/113	420	B	59	3.9
52663-61-3	PCB-92	71		20	4.5
STL01814	PCB-93/100	ND		40	4.2
73575-55-0	PCB-94	ND		20	4.3
38379-99-6	PCB-95	170	B	20	4.1
73575-54-9	PCB-96	0.51	J q U	20	0.041
STL01843	PCB-98/102	ND		40	4.0
38380-01-7	PCB-99	230		20	4.3
60145-21-3	PCB-103	4.7	J	20	3.7
56558-16-8	PCB-104	ND		20	0.046
32598-14-4	PCB-105	98	G	4.0	4.0
70424-69-0	PCB-106	ND		20	4.0
STL01815	PCB-107/124	9.3	J	40	3.8
74472-35-8	PCB-109	25		20	3.6
STL01826	PCB-110/115	200	B	40	3.5
39635-32-0	PCB-111	ND		20	3.4
74472-36-9	PCB-112	ND		20	3.2
74472-37-0	PCB-114	4.8	G	3.9	3.9
31508-00-6	PCB-118	360	G B	4.0	4.0
68194-12-7	PCB-120	ND		20	3.5
56558-18-0	PCB-121	ND		20	3.1
76842-07-4	PCB-122	ND		20	4.4
65510-44-3	PCB-123	ND	G	4.6	4.6
57465-28-8	PCB-126	ND	G	4.2	4.2
39635-33-1	PCB-127	ND		20	4.0
STL01816	PCB-128/166	150		40	8.7
STL01817	PCB-129/138/163	2100	B	59	9.3
52663-66-8	PCB-130	81		20	12
61798-70-7	PCB-131	ND		20	11

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW25-061513
Lab Sample ID: 320-3015-22
Matrix: Tissue
Lab File ID: 25JN1312D8_52.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:10
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 04:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	260		20	10
35694-04-3	PCB-133	34		20	11
STL01818	PCB-134/143	ND		40	10
STL01819	PCB-135/151	540		40	9.1
38411-22-2	PCB-136	110		20	6.3
35694-06-5	PCB-137	16	J	20	10
STL01820	PCB-139/140	ND		40	9.0
52712-04-6	PCB-141	ND		20	10
41411-61-4	PCB-142	ND		20	10
68194-14-9	PCB-144	73		20	8.9
74472-40-5	PCB-145	ND		20	6.2
51908-16-8	PCB-146	430		20	10
STL01821	PCB-147/149	1200	B	40	9.0
74472-41-6	PCB-148	ND		20	8.6
68194-08-1	PCB-150	ND		20	5.8
68194-09-2	PCB-152	ND		20	5.7
STL01822	PCB-153/168	2600	B	40	7.8
60145-22-4	PCB-154	23		20	7.9
33979-03-2	PCB-155	ND		20	6.5
STL01792	PCB-156/157	71		4.0	0.53
74472-42-7	PCB-158	130		20	7.1
39635-35-3	PCB-159	ND		20	0.46
41411-62-5	PCB-160	ND		20	8.2
74472-43-8	PCB-161	ND		20	7.4
39635-34-2	PCB-162	20		20	0.44
74472-45-0	PCB-164	33		20	7.3
74472-46-1	PCB-165	ND		20	8.4
52663-72-6	PCB-167	61		2.0	0.40
32774-16-6	PCB-169	ND		2.0	0.56
35065-30-6	PCB-170	120	J	20	0.84
STL01823	PCB-171/173	210		40	0.80
52663-74-8	PCB-172	14	J	20	0.81
38411-25-5	PCB-174	15	J	20	0.83
40186-70-7	PCB-175	40		20	0.29

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW25-061513
Lab Sample ID: 320-3015-22
Matrix: Tissue
Lab File ID: 25JN1312D8_52.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:10
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 04:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	92	J	20	0.20
52663-70-4	PCB-177	450		20	0.82
52663-67-9	PCB-178	210		20	0.29
52663-64-6	PCB-179	330		20	0.22
STL01824	PCB-180/193	690		40	0.65
74472-47-2	PCB-181	ND	UJ	20	0.69
60145-23-5	PCB-182	ND	UJ	20	0.26
52663-69-1	PCB-183	450		20	0.61
74472-48-3	PCB-184	2.7	J UJ	20	0.22
52712-05-7	PCB-185	ND	UJ	20	0.75
74472-49-4	PCB-186	ND		20	0.21
52663-68-0	PCB-187	1200	J	20	0.27
74487-85-7	PCB-188	ND	UJ	20	0.15
39635-31-9	PCB-189	20	J	2.0	0.20
41411-64-7	PCB-190	60		20	0.60
74472-50-7	PCB-191	12	J	20	0.58
74472-51-8	PCB-192	ND	UJ	20	0.60
35694-08-7	PCB-194	18	J J	20	0.16
52663-78-2	PCB-195	7.4	J	20	0.15
42740-50-1	PCB-196	11	J	20	0.18
33091-17-7	PCB-197	19	J	20	0.12
STL01825	PCB-198/199	13	J	40	0.19
52663-73-7	PCB-200	ND	UJ	20	0.14
40186-71-8	PCB-201	64	J	20	0.13
2136-99-4	PCB-202	63		20	0.090
52663-76-0	PCB-203	47		20	0.17
74472-52-9	PCB-204	ND	UJ	20	0.13
74472-53-0	PCB-205	3.7	J q U	20	0.31
40186-72-9	PCB-206	5.5	J	20	0.66
52663-79-3	PCB-207	0.69	J J	20	0.34
52663-77-1	PCB-208	0.82	J J	20	0.30
2051-24-3	PCB-209	2.0	J B	20	0.15
27323-18-8	Total Monochlorobiphenyls	1.6	J	200	0.25
25512-42-9	Total Dichlorobiphenyls	17	J q B U	200	1.8

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW25-061513
Lab Sample ID: 320-3015-22
Matrix: Tissue
Lab File ID: 25JN1312D8_52.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:10
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 04:08
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	120	J q B	200	0.43
26914-33-0	Total Tetrachlorobiphenyls	470	q B	200	0.45
25429-29-2	Total Pentachlorobiphenyls	1800	q B	200	3.9
26601-64-9	Total Hexachlorobiphenyls	7800	B	200	7.4
28655-71-2	Total Heptachlorobiphenyls	3900		J 200	0.50
55722-26-4	Total Octachlorobiphenyls	250	q	J 200	0.16
53742-07-7	Total Nonachlorobiphenyls	7.0	J	J 200	0.43

14 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW26/27-061513
Lab Sample ID: 320-3015-23
Matrix: Tissue
Lab File ID: 25JN1312D8_53.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:30
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.35(g)
Date Analyzed: 06/28/2013 05:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.25
2051-61-8	PCB-2	1.2	J q U	19	0.23
2051-62-9	PCB-3	ND		19	0.23
13029-08-8	PCB-4	ND		19	2.1
16605-91-7	PCB-5	ND		19	1.2
25569-80-6	PCB-6	ND		19	1.2
33284-50-3	PCB-7	ND		19	1.1
34883-43-7	PCB-8	2.5	J q U	19	1.2
34883-39-1	PCB-9	ND		19	1.3
33146-45-1	PCB-10	ND		19	1.2
2050-67-1	PCB-11	6.0	J q B U	19	1.2
STL01797	PCB-12/13	ND		39	1.3
34883-41-5	PCB-14	ND		19	1.1
2050-68-2	PCB-15	2.8	J q U	19	1.2
38444-78-9	PCB-16	2.5	J B	19	0.13
37680-66-3	PCB-17	1.7	J B	19	0.099
STL01798	PCB-18/30	5.3	J B	39	0.084
38444-73-4	PCB-19	0.55	J	19	0.14
STL01799	PCB-20/28	22	J B	39	0.38
STL01800	PCB-21/33	6.9	J	39	0.36
38444-85-8	PCB-22	4.5	J	19	0.41
55720-44-0	PCB-23	ND		19	0.35
55702-45-9	PCB-24	0.081	J	19	0.076
55712-37-3	PCB-25	0.92	J q U	19	0.36
STL01801	PCB-26/29	2.9	J	39	0.36
38444-76-7	PCB-27	0.49	J	19	0.074
16606-02-3	PCB-31	16	J B	19	0.35
38444-77-8	PCB-32	1.1	J B	19	0.065
37680-68-5	PCB-34	ND		19	0.36
37680-69-6	PCB-35	ND		19	0.43
38444-87-0	PCB-36	ND		19	0.38
38444-90-5	PCB-37	4.6	J	19	0.40
53555-66-1	PCB-38	ND		19	0.41
38444-88-1	PCB-39	ND		19	0.38

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW26/27-061513 | Lab Sample ID: 320-3015-23

Matrix: Tissue | Lab File ID: 25JN1312D8_53.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:30

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.35(g) | Date Analyzed: 06/28/2013 05:21

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	11	J	39	0.091
52663-59-9	PCB-41	1.8	J	19	0.11
36559-22-5	PCB-42	6.1	J B	19	0.096
70362-46-8	PCB-43	0.88	J	19	0.097
STL01803	PCB-44/47/65	34	J B	58	0.085
70362-45-7	PCB-45	0.98	J	19	0.094
41464-47-5	PCB-46	ND		19	0.10
70362-47-9	PCB-48	4.3	J	19	0.091
STL01805	PCB-49/69	18	J B	39	0.075
STL01806	PCB-50/53	2.4	J B	39	0.082
68194-04-7	PCB-51	ND		19	0.085
35693-99-3	PCB-52	63	B	19	0.090
15968-05-5	PCB-54	ND		19	0.049
74338-24-2	PCB-55	ND		19	0.84
41464-43-1	PCB-56	8.3	J	19	0.94
70424-67-8	PCB-57	5.8	J	19	0.85
41464-49-7	PCB-58	ND		19	0.85
STL01807	PCB-59/62/75	2.6	J	58	0.067
33025-41-1	PCB-60	11	J	19	0.90
STL01808	PCB-61/70/74/76	110	B	77	0.84
74472-34-7	PCB-63	2.4	J	19	0.79
52663-58-8	PCB-64	7.1	J B	19	0.064
32598-10-0	PCB-66	59	B	19	0.95
73575-53-8	PCB-67	1.0	J q U	19	0.79
73575-52-7	PCB-68	ND		19	0.75
41464-42-0	PCB-72	ND		19	0.82
74338-23-1	PCB-73	ND		19	0.072
32598-13-3	PCB-77	4.8		1.9	1.0
70362-49-1	PCB-78	ND		19	0.96
41464-48-6	PCB-79	4.1	J	19	0.84
33284-52-5	PCB-80	1.8	J	19	0.80
70362-50-4	PCB-81	ND		1.9	1.0
52663-62-4	PCB-82	11	J	19	7.5
60145-20-2	PCB-83	ND		19	7.5

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW26/27-061513 | Lab Sample ID: 320-3015-23

Matrix: Tissue | Lab File ID: 25JN1312D8_53.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:30

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.35(g) | Date Analyzed: 06/28/2013 05:21

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	23		19	6.5
STL01810	PCB-85/116/117	33	J	58	5.2
STL01811	PCB-86/87/97/108/119/125	130	B	120	5.1
STL01812	PCB-88/91	9.5	J	39	5.4
73575-57-2	PCB-89	ND		19	6.2
STL01813	PCB-90/101/113	480	B	58	5.1
52663-61-3	PCB-92	75		19	5.8
STL01814	PCB-93/100	ND		39	5.4
73575-55-0	PCB-94	ND		19	5.7
38379-99-6	PCB-95	200	B	19	5.4
73575-54-9	PCB-96	0.52	J	19	0.043
STL01843	PCB-98/102	ND		39	5.2
38380-01-7	PCB-99	220		19	5.6
60145-21-3	PCB-103	ND		19	4.9
56558-16-8	PCB-104	ND		19	0.051
32598-14-4	PCB-105	98	G	5.1	5.1
70424-69-0	PCB-106	ND		19	5.3
STL01815	PCB-107/124	9.8	J q U	39	5.0
74472-35-8	PCB-109	29		19	4.6
STL01826	PCB-110/115	220	B	39	4.5
39635-32-0	PCB-111	ND		19	4.4
74472-36-9	PCB-112	ND		19	4.2
74472-37-0	PCB-114	ND	G	5.1	5.1
31508-00-6	PCB-118	370	G B	5.0	5.0
68194-12-7	PCB-120	ND		19	4.6
56558-18-0	PCB-121	ND		19	4.1
76842-07-4	PCB-122	ND		19	5.7
65510-44-3	PCB-123	ND	G	2.6	2.6
57465-28-8	PCB-126	ND	G	5.5	5.5
39635-33-1	PCB-127	ND		19	5.3
STL01816	PCB-128/166	190		39	8.9
STL01817	PCB-129/138/163	3000	B	58	9.6
52663-66-8	PCB-130	120		19	12
61798-70-7	PCB-131	16	J	19	12

0827/3013

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW26/27-061513 | Lab Sample ID: 320-3015-23

Matrix: Tissue | Lab File ID: 25JN1312D8_53.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:30

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.35(g) | Date Analyzed: 06/28/2013 05:21

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	320		19	11
35694-04-3	PCB-133	46		19	11
STL01818	PCB-134/143	64		39	11
STL01819	PCB-135/151	830		39	9.4
38411-22-2	PCB-136	160		19	6.5
35694-06-5	PCB-137	ND		19	10
STL01820	PCB-139/140	21	J	39	9.3
52712-04-6	PCB-141	ND		19	10
41411-61-4	PCB-142	ND		19	11
68194-14-9	PCB-144	110		19	9.2
74472-40-5	PCB-145	ND		19	6.4
51908-16-8	PCB-146	640		19	10
STL01821	PCB-147/149	1600	B	39	9.3
74472-41-6	PCB-148	ND		19	8.9
68194-08-1	PCB-150	ND		19	6.0
68194-09-2	PCB-152	ND		19	5.9
STL01822	PCB-153/168	3600	B	39	8.1
60145-22-4	PCB-154	35		19	8.1
33979-03-2	PCB-155	ND		19	6.7
STL01792	PCB-156/157	85		3.9	0.57
74472-42-7	PCB-158	200		19	7.3
39635-35-3	PCB-159	ND		19	0.49
41411-62-5	PCB-160	ND		19	8.5
74472-43-8	PCB-161	ND		19	7.6
39635-34-2	PCB-162	27		19	0.47
74472-45-0	PCB-164	15	J	19	7.5
74472-46-1	PCB-165	ND		19	8.6
52663-72-6	PCB-167	89		1.9	0.42
32774-16-6	PCB-169	ND		1.9	0.59
35065-30-6	PCB-170	48	J	19	0.48
STL01823	PCB-171/173	310	J	39	0.46
52663-74-8	PCB-172	ND	J	19	0.46
38411-25-5	PCB-174	ND	J	19	0.47
40186-70-7	PCB-175	54	J	19	0.26

FORM I 1668A

S27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW26/27-061513
Lab Sample ID: 320-3015-23
Matrix: Tissue
Lab File ID: 25JN1312D8_53.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:30
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.35(g)
Date Analyzed: 06/28/2013 05:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	130	J	19	0.18
52663-70-4	PCB-177	660		19	0.47
52663-67-9	PCB-178	290		19	0.27
52663-64-6	PCB-179	480		19	0.20
STL01824	PCB-180/193	390		39	0.37
74472-47-2	PCB-181	ND	U	19	0.39
60145-23-5	PCB-182	ND		19	0.24
52663-69-1	PCB-183	670	J	19	0.35
74472-48-3	PCB-184	ND	U	19	0.20
52712-05-7	PCB-185	ND		19	0.43
74472-49-4	PCB-186	ND		19	0.19
52663-68-0	PCB-187	1200	J	19	0.25
74487-85-7	PCB-188	ND	U	19	0.14
39635-31-9	PCB-189	20	J	1.9	0.24
41411-64-7	PCB-190	53		19	0.34
74472-50-7	PCB-191	7.4	J	19	0.33
74472-51-8	PCB-192	ND	U	19	0.35
35694-08-7	PCB-194	7.6	J J	19	0.17
52663-78-2	PCB-195	2.4	J q U	19	0.16
42740-50-1	PCB-196	ND		19	0.37
33091-17-7	PCB-197	25	J	19	0.25
STL01825	PCB-198/199	3.2	J	39	0.38
52663-73-7	PCB-200	ND	U	19	0.28
40186-71-8	PCB-201	86	J	19	0.26
2136-99-4	PCB-202	86		19	0.19
52663-76-0	PCB-203	20		19	0.35
74472-52-9	PCB-204	ND	U	19	0.27
74472-53-0	PCB-205	1.8	J	19	0.27
40186-72-9	PCB-206	1.8	J	19	0.79
52663-79-3	PCB-207	ND	U	19	0.41
52663-77-1	PCB-208	ND		19	0.37
2051-24-3	PCB-209	1.9	J q B U	19	0.16
27323-18-8	Total Monochlorobiphenyls	1.2	J q	190	0.24
25512-42-9	Total Dichlorobiphenyls	11	J q B	190	1.3

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW26/27-061513
Lab Sample ID: 320-3015-23
Matrix: Tissue
Lab File ID: 25JN1312D8_53.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:30
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.35(g)
Date Analyzed: 06/28/2013 05:21
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	70	J q B	190	0.28
26914-33-0	Total Tetrachlorobiphenyls	360	q B	190	0.48
25429-29-2	Total Pentachlorobiphenyls	1900	q B	190	5.0
26601-64-9	Total Hexachlorobiphenyls	11000	B	190	7.6
28655-71-2	Total Heptachlorobiphenyls	4300		J 190	0.32
55722-26-4	Total Octachlorobiphenyls	230	q	J 190	0.27
53742-07-7	Total Nonachlorobiphenyls	1.8	J	J 190	0.52

4408/09/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28-061113 | Lab Sample ID: 320-3015-24

Matrix: Tissue | Lab File ID: 25JN1312D8_54.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 06:34

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.41
2051-61-8	PCB-2	1.3	J	20	0.38
2051-62-9	PCB-3	ND		20	0.38
13029-08-8	PCB-4	ND		20	2.5
16605-91-7	PCB-5	ND		20	1.5
25569-80-6	PCB-6	ND		20	1.5
33284-50-3	PCB-7	ND		20	1.4
34883-43-7	PCB-8	2.6	J q U	20	1.5
34883-39-1	PCB-9	ND		20	1.6
33146-45-1	PCB-10	ND		20	1.7
2050-67-1	PCB-11	7.0	J q B U	20	1.6
STL01797	PCB-12/13	ND		39	1.6
34883-41-5	PCB-14	ND		20	1.4
2050-68-2	PCB-15	3.0	J	20	1.6
38444-78-9	PCB-16	2.8	J B	20	0.27
37680-66-3	PCB-17	2.5	J B	20	0.20
STL01798	PCB-18/30	5.3	J B	39	0.17
38444-73-4	PCB-19	0.72	J	20	0.32
STL01799	PCB-20/28	25	J B	39	0.77
STL01800	PCB-21/33	7.7	J	39	0.72
38444-85-8	PCB-22	6.0	J	20	0.83
55720-44-0	PCB-23	ND		20	0.71
55702-45-9	PCB-24	ND		20	0.15
55712-37-3	PCB-25	1.5	J	20	0.72
STL01801	PCB-26/29	3.1	J	39	0.73
38444-76-7	PCB-27	0.44	J q U	20	0.15
16606-02-3	PCB-31	18	J B	20	0.71
38444-77-8	PCB-32	1.5	J q B U	20	0.13
37680-68-5	PCB-34	ND		20	0.73
37680-69-6	PCB-35	ND		20	0.86
38444-87-0	PCB-36	ND		20	0.76
38444-90-5	PCB-37	5.5	J	20	0.77
53555-66-1	PCB-38	ND		20	0.83
38444-88-1	PCB-39	ND		20	0.78

CL 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28-061113 | Lab Sample ID: 320-3015-24

Matrix: Tissue | Lab File ID: 25JN1312D8_54.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 06:34

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	27	J	39	0.19
52663-59-9	PCB-41	1.8	J	20	0.23
36559-22-5	PCB-42	7.6	J B	20	0.20
70362-46-8	PCB-43	ND		20	0.20
STL01803	PCB-44/47/65	51	J B	59	0.18
70362-45-7	PCB-45	1.3	J q U	20	0.19
41464-47-5	PCB-46	ND		20	0.21
70362-47-9	PCB-48	6.0	J	20	0.19
STL01805	PCB-49/69	36	J B	39	0.16
STL01806	PCB-50/53	6.0	J B	39	0.17
68194-04-7	PCB-51	1.1	J q U	20	0.18
35693-99-3	PCB-52	120	B	20	0.19
15968-05-5	PCB-54	ND		20	0.10
74338-24-2	PCB-55	ND		20	2.6
41464-43-1	PCB-56	14	J	20	2.9
70424-67-8	PCB-57	ND		20	2.6
41464-49-7	PCB-58	30		20	2.6
STL01807	PCB-59/62/75	3.2	J	59	0.14
33025-41-1	PCB-60	13	J	20	2.7
STL01808	PCB-61/70/74/76	170	B	79	2.6
74472-34-7	PCB-63	2.8	J	20	2.4
52663-58-8	PCB-64	10	J B	20	0.13
32598-10-0	PCB-66	82	B	20	2.9
73575-53-8	PCB-67	4.5	J	20	2.4
73575-52-7	PCB-68	ND		20	2.3
41464-42-0	PCB-72	ND		20	2.5
74338-23-1	PCB-73	ND		20	0.15
32598-13-3	PCB-77	6.7	G	2.7	2.7
70362-49-1	PCB-78	ND		20	2.9
41464-48-6	PCB-79	ND		20	2.6
33284-52-5	PCB-80	ND		20	2.4
70362-50-4	PCB-81	ND	G	2.8	2.8
52663-62-4	PCB-82	34	G	32	32
60145-20-2	PCB-83	36	G	32	32

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW28-061113
Lab Sample ID: 320-3015-24
Matrix: Tissue
Lab File ID: 25JN1312D8_54.d
Analysis Method: 1668A
Date Collected: 06/11/2013 10:38
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.13(g)
Date Analyzed: 06/28/2013 06:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	67	G q U	28	28
STL01810	PCB-85/116/117	50	J	59	22
STL01811	PCB-86/87/97/108/119/125	430	B	120	22
STL01812	PCB-88/91	38	J	39	23
73575-57-2	PCB-89	ND	G	26	26
STL01813	PCB-90/101/113	2100	B	59	22
52663-61-3	PCB-92	340	G	25	25
STL01814	PCB-93/100	120		39	23
73575-55-0	PCB-94	ND	G	24	24
38379-99-6	PCB-95	970	G B	23	23
73575-54-9	PCB-96	2.0	J q U	20	0.048
STL01843	PCB-98/102	ND		39	22
38380-01-7	PCB-99	760	G	24	24
60145-21-3	PCB-103	34	G	21	21
56558-16-8	PCB-104	0.30	J	20	0.078
32598-14-4	PCB-105	210	G	21	21
70424-69-0	PCB-106	ND	G	22	22
STL01815	PCB-107/124	24	J	39	21
74472-35-8	PCB-109	73		20	20
STL01826	PCB-110/115	880	B	39	19
39635-32-0	PCB-111	ND		20	19
74472-36-9	PCB-112	ND		20	18
74472-37-0	PCB-114	ND	G	20	20
31508-00-6	PCB-118	910	G B	20	20
68194-12-7	PCB-120	ND		20	19
56558-18-0	PCB-121	ND		20	17
76842-07-4	PCB-122	ND	G	24	24
65510-44-3	PCB-123	ND	G I	23	23
57465-28-8	PCB-126	ND	G	21	21
39635-33-1	PCB-127	ND	G	22	22
STL01816	PCB-128/166	710	G	41	41
STL01817	PCB-129/138/163	12000	B E J	59	45
52663-66-8	PCB-130	450	G	56	56
61798-70-7	PCB-131	55	G	53	53

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW28-061113
Lab Sample ID: 320-3015-24
Matrix: Tissue
Lab File ID: 25JN1312D8_54.d
Analysis Method: 1668A
Date Collected: 06/11/2013 10:38
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.13(g)
Date Analyzed: 06/28/2013 06:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	2000	G E J	50	50
35694-04-3	PCB-133	210	G	51	51
STL01818	PCB-134/143	240	G	50	50
STL01819	PCB-135/151	4100	G E J	44	44
38411-22-2	PCB-136	880	G	30	30
35694-06-5	PCB-137	ND	G	48	48
STL01820	PCB-139/140	83	G	43	43
52712-04-6	PCB-141	230	G	48	48
41411-61-4	PCB-142	ND	G	49	49
68194-14-9	PCB-144	550	G	42	42
74472-40-5	PCB-145	ND	G	30	30
51908-16-8	PCB-146	2800	G E J	48	48
STL01821	PCB-147/149	8400	G B E J	43	43
74472-41-6	PCB-148	ND	G	41	41
68194-08-1	PCB-150	ND	G	28	28
68194-09-2	PCB-152	ND	G	27	27
STL01822	PCB-153/168	15000	B E J	39	37
60145-22-4	PCB-154	170	G	38	38
33979-03-2	PCB-155	ND	G	35	35
STL01792	PCB-156/157	380		3.9	2.7
74472-42-7	PCB-158	880	G	34	34
39635-35-3	PCB-159	ND		20	2.4
41411-62-5	PCB-160	ND	G	39	39
74472-43-8	PCB-161	ND	G	35	35
39635-34-2	PCB-162	110		20	2.3
74472-45-0	PCB-164	220	G	35	35
74472-46-1	PCB-165	ND	G	40	40
52663-72-6	PCB-167	350		2.0	2.0
32774-16-6	PCB-169	ND	G	2.5	2.5
35065-30-6	PCB-170	730	J	20	4.8
STL01823	PCB-171/173	1400		39	4.6
52663-74-8	PCB-172	86		20	4.6
38411-25-5	PCB-174	98		20	4.7
40186-70-7	PCB-175	240		20	0.71

CL 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28-061113 | Lab Sample ID: 320-3015-24

Matrix: Tissue | Lab File ID: 25JN1312D8_54.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 06:34

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	650	J	20	0.50
52663-70-4	PCB-177	2700	E J	20	4.7
52663-67-9	PCB-178	1200	J	20	0.73
52663-64-6	PCB-179	2200	E J	20	0.55
STL01824	PCB-180/193	3700	J	39	3.7
74472-47-2	PCB-181	ND	J	20	3.9
60145-23-5	PCB-182	ND		20	0.66
52663-69-1	PCB-183	3000	E J	20	3.5
74472-48-3	PCB-184	ND	J	20	0.55
52712-05-7	PCB-185	ND		20	4.3
74472-49-4	PCB-186	ND		20	0.53
52663-68-0	PCB-187	5800	E J	20	0.68
74487-85-7	PCB-188	ND	J	20	0.43
39635-31-9	PCB-189	130	J	2.0	0.39
41411-64-7	PCB-190	430		20	3.4
74472-50-7	PCB-191	77		20	3.3
74472-51-8	PCB-192	ND	J	20	3.4
35694-08-7	PCB-194	140	J	20	0.34
52663-78-2	PCB-195	57		20	0.32
42740-50-1	PCB-196	22		20	1.2
33091-17-7	PCB-197	98		20	0.83
STL01825	PCB-198/199	75		39	1.3
52663-73-7	PCB-200	ND	J	20	0.95
40186-71-8	PCB-201	340	J	20	0.88
2136-99-4	PCB-202	330		20	0.68
52663-76-0	PCB-203	250		20	1.2
74472-52-9	PCB-204	ND	J	20	0.92
74472-53-0	PCB-205	25		20	0.48
40186-72-9	PCB-206	32		20	0.99
52663-79-3	PCB-207	3.3	J J	20	0.52
52663-77-1	PCB-208	6.3	J J	20	0.46
2051-24-3	PCB-209	20	B	20	0.17
27323-18-8	Total Monochlorobiphenyls	1.3	J	200	0.39
25512-42-9	Total Dichlorobiphenyls	13	J q B	200	1.6

FORM I 1668A

 CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW28-061113
Lab Sample ID: 320-3015-24
Matrix: Tissue
Lab File ID: 25JN1312D8_54.d
Analysis Method: 1668A
Date Collected: 06/11/2013 10:38
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.13(g)
Date Analyzed: 06/28/2013 06:34
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	79	J q B	200	0.57
26914-33-0	Total Tetrachlorobiphenyls	580	q B	200	1.4
25429-29-2	Total Pentachlorobiphenyls	7100	q B	200	21
26601-64-9	Total Hexachlorobiphenyls	50000	q B E	200	35
28655-71-2	Total Heptachlorobiphenyls	22000	E	200	2.5
55722-26-4	Total Octachlorobiphenyls	1300		200	0.83
53742-07-7	Total Nonachlorobiphenyls	42	J	200	0.66

J 9/4

MM 8/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW28DUP-061113
Lab Sample ID: 320-3015-25
Matrix: Tissue
Lab File ID: 25JN1312D8_55.d
Analysis Method: 1668A
Date Collected: 06/11/2013 10:38
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.19(g)
Date Analyzed: 06/28/2013 07:47
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.28
2051-61-8	PCB-2	0.77	J q U	20	0.27
2051-62-9	PCB-3	ND		20	0.28
13029-08-8	PCB-4	ND		20	1.0
16605-91-7	PCB-5	ND		20	1.1
25569-80-6	PCB-6	ND		20	1.1
33284-50-3	PCB-7	ND		20	0.98
34883-43-7	PCB-8	2.8	J q U	20	1.0
34883-39-1	PCB-9	ND		20	1.1
33146-45-1	PCB-10	ND		20	0.66
2050-67-1	PCB-11	8.6	J q B U	20	1.1
STL01797	PCB-12/13	ND		39	1.1
34883-41-5	PCB-14	ND		20	0.96
2050-68-2	PCB-15	3.0	J q U	20	1.1
38444-78-9	PCB-16	2.7	J B	20	0.16
37680-66-3	PCB-17	2.6	J B	20	0.12
STL01798	PCB-18/30	6.2	J B	39	0.10
38444-73-4	PCB-19	0.81	J	20	0.18
STL01799	PCB-20/28	24	J B	39	0.63
STL01800	PCB-21/33	7.7	J	39	0.58
38444-85-8	PCB-22	5.0	J	20	0.67
55720-44-0	PCB-23	ND		20	0.58
55702-45-9	PCB-24	0.095	J q U	20	0.092
55712-37-3	PCB-25	1.0	J q U	20	0.58
STL01801	PCB-26/29	3.0	J	39	0.59
38444-76-7	PCB-27	0.49	J	20	0.090
16606-02-3	PCB-31	16	J B	20	0.58
38444-77-8	PCB-32	1.5	J B	20	0.079
37680-68-5	PCB-34	ND		20	0.59
37680-69-6	PCB-35	ND		20	0.70
38444-87-0	PCB-36	ND		20	0.61
38444-90-5	PCB-37	5.3	J	20	0.63
53555-66-1	PCB-38	ND		20	0.67
38444-88-1	PCB-39	ND		20	0.63

FORM I 1668A

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28DUP-061113 | Lab Sample ID: 320-3015-25

Matrix: Tissue | Lab File ID: 25JN1312D8_55.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.19(g) | Date Analyzed: 06/28/2013 07:47

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	24	J	39	0.17
52663-59-9	PCB-41	1.3	J q U	20	0.21
36559-22-5	PCB-42	6.7	J B	20	0.18
70362-46-8	PCB-43	ND		20	0.19
STL01803	PCB-44/47/65	47	J B	59	0.16
70362-45-7	PCB-45	1.4	J	20	0.18
41464-47-5	PCB-46	0.90	J q U	20	0.20
70362-47-9	PCB-48	5.3	J	20	0.17
STL01805	PCB-49/69	29	J B	39	0.14
STL01806	PCB-50/53	6.0	J B	39	0.16
68194-04-7	PCB-51	1.3	J	20	0.16
35693-99-3	PCB-52	100	B	20	0.17
15968-05-5	PCB-54	ND		20	0.045
74338-24-2	PCB-55	ND		20	2.5
41464-43-1	PCB-56	11	J	20	2.8
70424-67-8	PCB-57	ND		20	2.5
41464-49-7	PCB-58	27		20	2.5
STL01807	PCB-59/62/75	2.7	J	59	0.13
33025-41-1	PCB-60	11	J	20	2.6
STL01808	PCB-61/70/74/76	140	B	79	2.5
74472-34-7	PCB-63	2.7	J	20	2.3
52663-58-8	PCB-64	8.2	J B	20	0.12
32598-10-0	PCB-66	72	B	20	2.8
73575-53-8	PCB-67	4.5	J	20	2.3
73575-52-7	PCB-68	ND		20	2.2
41464-42-0	PCB-72	ND		20	2.4
74338-23-1	PCB-73	ND		20	0.14
32598-13-3	PCB-77	7.1	G	2.7	2.7
70362-49-1	PCB-78	ND		20	2.8
41464-48-6	PCB-79	ND		20	2.5
33284-52-5	PCB-80	ND		20	2.4
70362-50-4	PCB-81	ND	G	2.8	2.8
52663-62-4	PCB-82	ND	G	25	25
60145-20-2	PCB-83	ND	G	25	25

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28DUP-061113 | Lab Sample ID: 320-3015-25

Matrix: Tissue | Lab File ID: 25JN1312D8_55.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.19(g) | Date Analyzed: 06/28/2013 07:47

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	68	G	22	22
STL01810	PCB-85/116/117	51	J	59	18
STL01811	PCB-86/87/97/108/119/125	380	B	120	17
STL01812	PCB-88/91	29	J	39	18
73575-57-2	PCB-89	ND	G	21	21
STL01813	PCB-90/101/113	1900	B	59	17
52663-61-3	PCB-92	310		20	20
STL01814	PCB-93/100	ND		39	18
73575-55-0	PCB-94	ND		20	19
38379-99-6	PCB-95	880	B	20	18
73575-54-9	PCB-96	2.1	J	20	0.046
STL01843	PCB-98/102	110		39	17
38380-01-7	PCB-99	660		20	19
60145-21-3	PCB-103	30		20	16
56558-16-8	PCB-104	0.28	J	20	0.066
32598-14-4	PCB-105	190	G	16	16
70424-69-0	PCB-106	ND		20	18
STL01815	PCB-107/124	28	J	39	17
74472-35-8	PCB-109	73		20	16
STL01826	PCB-110/115	840	B	39	15
39635-32-0	PCB-111	ND		20	15
74472-36-9	PCB-112	ND		20	14
74472-37-0	PCB-114	ND	G	17	17
31508-00-6	PCB-118	810	G B	17	17
68194-12-7	PCB-120	ND		20	15
56558-18-0	PCB-121	ND		20	14
76842-07-4	PCB-122	ND		20	19
65510-44-3	PCB-123	ND	G	18	18
57465-28-8	PCB-126	ND	G	16	16
39635-33-1	PCB-127	ND		20	18
STL01816	PCB-128/166	640	G	47	47
STL01817	PCB-129/138/163	11000	B E J	59	51
52663-66-8	PCB-130	380	G	64	64
61798-70-7	PCB-131	ND	G	61	61

FORM I 1668A

 02/7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW28DUP-061113
Lab Sample ID: 320-3015-25
Matrix: Tissue
Lab File ID: 25JN1312D8_55.d
Analysis Method: 1668A
Date Collected: 06/11/2013 10:38
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.19(g)
Date Analyzed: 06/28/2013 07:47
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1600	G	57	57
35694-04-3	PCB-133	170	G	58	58
STL01818	PCB-134/143	ND	G	57	57
STL01819	PCB-135/151	3700	G	50	50
38411-22-2	PCB-136	780	G	34	34
35694-06-5	PCB-137	ND	G	55	55
STL01820	PCB-139/140	ND	G	49	49
52712-04-6	PCB-141	170	G	55	55
41411-61-4	PCB-142	ND	G	56	56
68194-14-9	PCB-144	500	G	49	49
74472-40-5	PCB-145	ND	G	34	34
51908-16-8	PCB-146	2300	G E J	54	54
STL01821	PCB-147/149	7700	G B E J	49	49
74472-41-6	PCB-148	ND	G	47	47
68194-08-1	PCB-150	ND	G	31	31
68194-09-2	PCB-152	ND	G	31	31
STL01822	PCB-153/168	13000	G B E J	43	43
60145-22-4	PCB-154	150	G	43	43
33979-03-2	PCB-155	ND	G	42	42
STL01792	PCB-156/157	330		3.9	2.3
74472-42-7	PCB-158	740	G	39	39
39635-35-3	PCB-159	ND		20	2.0
41411-62-5	PCB-160	ND	G	45	45
74472-43-8	PCB-161	ND	G	40	40
39635-34-2	PCB-162	99		20	2.0
74472-45-0	PCB-164	160	G	40	40
74472-46-1	PCB-165	ND	G	46	46
52663-72-6	PCB-167	300		2.0	1.8
32774-16-6	PCB-169	10	G	2.1	2.1
35065-30-6	PCB-170	630	J	20	3.7
STL01823	PCB-171/173	1200		39	3.6
52663-74-8	PCB-172	59		20	3.6
38411-25-5	PCB-174	61		20	3.7
40186-70-7	PCB-175	210		20	0.62

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28DUP-061113 | Lab Sample ID: 320-3015-25

Matrix: Tissue | Lab File ID: 25JN1312D8_55.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.19(g) | Date Analyzed: 06/28/2013 07:47

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	550	J	20	0.44
52663-70-4	PCB-177	2400	E	20	3.6
52663-67-9	PCB-178	1000		20	0.64
52663-64-6	PCB-179	1900	E	20	0.48
STL01824	PCB-180/193	3400		39	2.9
74472-47-2	PCB-181	ND	J	20	3.1
60145-23-5	PCB-182	ND		20	0.58
52663-69-1	PCB-183	2500	E J	20	2.7
74472-48-3	PCB-184	ND	J	20	0.48
52712-05-7	PCB-185	ND		20	3.3
74472-49-4	PCB-186	ND		20	0.46
52663-68-0	PCB-187	6000	E J	20	0.60
74487-85-7	PCB-188	ND	J	20	0.40
39635-31-9	PCB-189	110	J	2.0	0.30
41411-64-7	PCB-190	400	J	20	2.7
74472-50-7	PCB-191	65	J	20	2.6
74472-51-8	PCB-192	ND	J	20	2.7
35694-08-7	PCB-194	110	J	20	0.23
52663-78-2	PCB-195	42		20	0.22
42740-50-1	PCB-196	44		20	0.34
33091-17-7	PCB-197	89		20	0.22
STL01825	PCB-198/199	48		39	0.35
52663-73-7	PCB-200	ND		20	0.26
40186-71-8	PCB-201	290		20	0.24
2136-99-4	PCB-202	300		20	0.19
52663-76-0	PCB-203	220		20	0.32
74472-52-9	PCB-204	ND	J	20	0.25
74472-53-0	PCB-205	19	J	20	0.30
40186-72-9	PCB-206	17	J	20	0.74
52663-79-3	PCB-207	2.0	J J	20	0.41
52663-77-1	PCB-208	3.4	J J	20	0.38
2051-24-3	PCB-209	11	J B	20	0.18
27323-18-8	Total Monochlorobiphenyls	0.77	J q U	200	0.28
25512-42-9	Total Dichlorobiphenyls	14	J q B U	200	1.0

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW28DUP-061113 | Lab Sample ID: 320-3015-25

Matrix: Tissue | Lab File ID: 25JN1312D8_55.d

Analysis Method: 1668A | Date Collected: 06/11/2013 10:38

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.19(g) | Date Analyzed: 06/28/2013 07:47

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	76	J q B	200	0.44
26914-33-0	Total Tetrachlorobiphenyls	520	q B	200	1.3
25429-29-2	Total Pentachlorobiphenyls	6300	q B	200	17
26601-64-9	Total Hexachlorobiphenyls	43000	q B E	J 200	41
28655-71-2	Total Heptachlorobiphenyls	20000	E	J 200	2.0
55722-26-4	Total Octachlorobiphenyls	1200		J 200	0.26
53742-07-7	Total Nonachlorobiphenyls	23	J	J 200	0.51

14u08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW31-061113
Lab Sample ID: 320-3015-26
Matrix: Tissue
Lab File ID: 25JN1312D8_56.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:35
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.08(g)
Date Analyzed: 06/28/2013 09:01
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	0.54	J q U	20	0.26
2051-61-8	PCB-2	1.6	J	20	0.23
2051-62-9	PCB-3	0.62	J	20	0.22
13029-08-8	PCB-4	5.0	J	20	2.0
16605-91-7	PCB-5	ND		20	1.6
25569-80-6	PCB-6	3.4	J q U	20	1.6
33284-50-3	PCB-7	ND		20	1.5
34883-43-7	PCB-8	18	J q U	20	1.6
34883-39-1	PCB-9	ND		20	1.7
33146-45-1	PCB-10	ND		20	1.3
2050-67-1	PCB-11	5.7	J q B U	20	1.6
STL01797	PCB-12/13	ND		40	1.7
34883-41-5	PCB-14	ND		20	1.4
2050-68-2	PCB-15	22	q U	20	1.7
38444-78-9	PCB-16	15	J B	20	0.16
37680-66-3	PCB-17	13	J B	20	0.12
STL01798	PCB-18/30	29	J B	40	0.11
38444-73-4	PCB-19	3.5	J	20	0.19
STL01799	PCB-20/28	160	B	40	1.6
STL01800	PCB-21/33	50		40	1.5
38444-85-8	PCB-22	29		20	1.7
55720-44-0	PCB-23	ND		20	1.4
55702-45-9	PCB-24	0.32	J	20	0.095
55712-37-3	PCB-25	7.8	J	20	1.5
STL01801	PCB-26/29	20	J	40	1.5
38444-76-7	PCB-27	3.4	J	20	0.093
16606-02-3	PCB-31	120	B	20	1.4
38444-77-8	PCB-32	7.5	J B	20	0.082
37680-68-5	PCB-34	ND		20	1.5
37680-69-6	PCB-35	ND		20	1.7
38444-87-0	PCB-36	ND		20	1.5
38444-90-5	PCB-37	36		20	1.6
53555-66-1	PCB-38	ND		20	1.7
38444-88-1	PCB-39	ND		20	1.6

0271301B

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW31-061113
Lab Sample ID: 320-3015-26
Matrix: Tissue
Lab File ID: 25JN1312D8_56.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:35
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.08(g)
Date Analyzed: 06/28/2013 09:01
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	56		40	0.27
52663-59-9	PCB-41	17	J	20	0.33
36559-22-5	PCB-42	38	B	20	0.28
70362-46-8	PCB-43	7.4	J	20	0.29
STL01803	PCB-44/47/65	170	B	60	0.25
70362-45-7	PCB-45	8.0	J	20	0.28
41464-47-5	PCB-46	5.1	J	20	0.31
70362-47-9	PCB-48	43		20	0.27
STL01805	PCB-49/69	92	B	40	0.22
STL01806	PCB-50/53	13	J B	40	0.24
68194-04-7	PCB-51	1.2	J	20	0.25
35693-99-3	PCB-52	210	B	20	0.27
15968-05-5	PCB-54	0.37	J	20	0.073
74338-24-2	PCB-55	ND		20	1.2
41464-43-1	PCB-56	11	J	20	1.4
70424-67-8	PCB-57	11	J	20	1.2
41464-49-7	PCB-58	ND		20	1.2
STL01807	PCB-59/62/75	16	J	60	0.20
33025-41-1	PCB-60	14	J	20	1.3
STL01808	PCB-61/70/74/76	230	B	79	1.2
74472-34-7	PCB-63	6.8	J	20	1.1
52663-58-8	PCB-64	42	B	20	0.19
32598-10-0	PCB-66	110	B	20	1.4
73575-53-8	PCB-67	6.7	J	20	1.2
73575-52-7	PCB-68	1.6	J	20	1.1
41464-42-0	PCB-72	ND		20	1.2
74338-23-1	PCB-73	ND		20	0.21
32598-13-3	PCB-77	4.3		2.0	1.4
70362-49-1	PCB-78	ND		20	1.4
41464-48-6	PCB-79	ND		20	1.2
33284-52-5	PCB-80	ND		20	1.2
70362-50-4	PCB-81	ND		2.0	1.4
52663-62-4	PCB-82	12	J	20	9.0
60145-20-2	PCB-83	12	J	20	9.0

07/36/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW31-061113
Lab Sample ID: 320-3015-26
Matrix: Tissue
Lab File ID: 25JN1312D8_56.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:35
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.08(g)
Date Analyzed: 06/28/2013 09:01
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	34		20	7.8
STL01810	PCB-85/116/117	39	J	60	6.2
STL01811	PCB-86/87/97/108/119/125	150	B	120	6.1
STL01812	PCB-88/91	19	J	40	6.5
73575-57-2	PCB-89	ND		20	7.4
STL01813	PCB-90/101/113	520	B	60	6.1
52663-61-3	PCB-92	88		20	7.0
STL01814	PCB-93/100	ND		40	6.5
73575-55-0	PCB-94	ND		20	6.8
38379-99-6	PCB-95	320	B	20	6.5
73575-54-9	PCB-96	2.2	J	20	0.055
STL01843	PCB-98/102	7.3	J	40	6.2
38380-01-7	PCB-99	250		20	6.7
60145-21-3	PCB-103	7.5	J	20	5.8
56558-16-8	PCB-104	0.24	J	20	0.068
32598-14-4	PCB-105	96	G	6.2	6.2
70424-69-0	PCB-106	ND		20	6.3
STL01815	PCB-107/124	9.5	J	40	6.0
74472-35-8	PCB-109	25		20	5.6
STL01826	PCB-110/115	280	B	40	5.4
39635-32-0	PCB-111	ND		20	5.3
74472-36-9	PCB-112	ND		20	5.0
74472-37-0	PCB-114	ND	G	6.2	6.2
31508-00-6	PCB-118	380	G B	6.1	6.1
68194-12-7	PCB-120	ND		20	5.5
56558-18-0	PCB-121	ND		20	4.9
76842-07-4	PCB-122	ND		20	6.9
65510-44-3	PCB-123	ND	G	6.6	6.6
57465-28-8	PCB-126	ND	G	6.7	6.7
39635-33-1	PCB-127	ND		20	6.3
STL01816	PCB-128/166	220		40	10
STL01817	PCB-129/138/163	3000	B	60	11
52663-66-8	PCB-130	120		20	14
61798-70-7	PCB-131	17	J	20	13

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW31-061113
Lab Sample ID: 320-3015-26
Matrix: Tissue
Lab File ID: 25JN1312D8_56.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:35
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.08(g)
Date Analyzed: 06/28/2013 09:01
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	480		20	13
35694-04-3	PCB-133	60		20	13
STL01818	PCB-134/143	88		40	13
STL01819	PCB-135/151	1400		40	11
38411-22-2	PCB-136	310		20	7.6
35694-06-5	PCB-137	ND		20	12
STL01820	PCB-139/140	20	J	40	11
52712-04-6	PCB-141	38		20	12
41411-61-4	PCB-142	ND		20	12
68194-14-9	PCB-144	170		20	11
74472-40-5	PCB-145	ND		20	7.5
51908-16-8	PCB-146	620		20	12
STL01821	PCB-147/149	2600	B	40	11
74472-41-6	PCB-148	ND		20	10
68194-08-1	PCB-150	ND		20	6.9
68194-09-2	PCB-152	ND		20	6.9
STL01822	PCB-153/168	3400	B	40	9.4
60145-22-4	PCB-154	40		20	9.4
33979-03-2	PCB-155	ND		20	7.6
STL01792	PCB-156/157	90		4.0	1.0
74472-42-7	PCB-158	200		20	8.5
39635-35-3	PCB-159	ND		20	0.82
41411-62-5	PCB-160	ND		20	9.9
74472-43-8	PCB-161	ND		20	8.9
39635-34-2	PCB-162	32		20	0.79
74472-45-0	PCB-164	54		20	8.7
74472-46-1	PCB-165	ND		20	10
52663-72-6	PCB-167	88		2.0	0.71
32774-16-6	PCB-169	ND		2.0	0.93
35065-30-6	PCB-170	140	J	20	1.1
STL01823	PCB-171/173	360		40	1.0
52663-74-8	PCB-172	16	J	20	1.0
38411-25-5	PCB-174	21		20	1.0
40186-70-7	PCB-175	69		20	0.33

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW31-061113 | Lab Sample ID: 320-3015-26

Matrix: Tissue | Lab File ID: 25JN1312D8_56.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:35

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.08(g) | Date Analyzed: 06/28/2013 09:01

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	170	J	20	0.24
52663-70-4	PCB-177	790		20	1.0
52663-67-9	PCB-178	380		20	0.34
52663-64-6	PCB-179	640		20	0.26
STL01824	PCB-180/193	750		40	0.82
74472-47-2	PCB-181	ND	J	20	0.87
60145-23-5	PCB-182	ND		20	0.31
52663-69-1	PCB-183	850	J	20	0.77
74472-48-3	PCB-184	ND	J	20	0.26
52712-05-7	PCB-185	ND		20	0.95
74472-49-4	PCB-186	ND		20	0.25
52663-68-0	PCB-187	1700	J	20	0.32
74487-85-7	PCB-188	ND	J	20	0.21
39635-31-9	PCB-189	27	J	2.0	0.22
41411-64-7	PCB-190	85		20	0.76
74472-50-7	PCB-191	17 J		20	0.73
74472-51-8	PCB-192	ND	J	20	0.76
35694-08-7	PCB-194	33	J	20	0.17
52663-78-2	PCB-195	12 J		20	0.16
42740-50-1	PCB-196	10 J		20	0.19
33091-17-7	PCB-197	25		20	0.12
STL01825	PCB-198/199	15 J		40	0.19
52663-73-7	PCB-200	ND	J	20	0.14
40186-71-8	PCB-201	97	J	20	0.13
2136-99-4	PCB-202	110		20	0.11
52663-76-0	PCB-203	54		20	0.18
74472-52-9	PCB-204	ND	J	20	0.14
74472-53-0	PCB-205	4.8 J		20	0.20
40186-72-9	PCB-206	5.2 J		20	0.79
52663-79-3	PCB-207	ND	J	20	0.55
52663-77-1	PCB-208	0.96 J	J	20	0.42
2051-24-3	PCB-209	2.7 J B		20	0.13
27323-18-8	Total Monochlorobiphenyls	2.8 J q	MH 08/09/13	200	0.24
25512-42-9	Total Dichlorobiphenyls	54 J q B	MH	200	1.6

FORM I 1668A

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW31-061113 | Lab Sample ID: 320-3015-26

Matrix: Tissue | Lab File ID: 25JN1312D8_56.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:35

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.08(g) | Date Analyzed: 06/28/2013 09:01

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	490	B	200	1.0
26914-33-0	Total Tetrachlorobiphenyls	1100	B	200	0.76
25429-29-2	Total Pentachlorobiphenyls	2300	B	200	6.0
26601-64-9	Total Hexachlorobiphenyls	13000	B	200	8.9
28655-71-2	Total Heptachlorobiphenyls	6000	J	200	0.62
55722-26-4	Total Octachlorobiphenyls	360		200	0.16
53742-07-7	Total Nonachlorobiphenyls	6.2	J	200	0.59

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW102-061113
Lab Sample ID: 320-3015-27
Matrix: Tissue
Lab File ID: 25JN1312D8_57.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:15
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.12(g)
Date Analyzed: 06/28/2013 10:14
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.22
2051-61-8	PCB-2	1.6	J	20	0.20
2051-62-9	PCB-3	0.32	J q U	20	0.19
13029-08-8	PCB-4	ND		20	1.9
16605-91-7	PCB-5	ND		20	1.4
25569-80-6	PCB-6	ND		20	1.4
33284-50-3	PCB-7	ND		20	1.3
34883-43-7	PCB-8	2.8	J q U	20	1.4
34883-39-1	PCB-9	ND		20	1.5
33146-45-1	PCB-10	ND		20	1.2
2050-67-1	PCB-11	4.9	J q B U	20	1.5
STL01797	PCB-12/13	ND		40	1.5
34883-41-5	PCB-14	ND		20	1.3
2050-68-2	PCB-15	3.1	J q U	20	1.5
38444-78-9	PCB-16	2.7	J B	20	0.16
37680-66-3	PCB-17	1.8	J B	20	0.12
STL01798	PCB-18/30	4.9	J B	40	0.10
38444-73-4	PCB-19	0.70	J	20	0.20
STL01799	PCB-20/28	24	J B	40	0.48
STL01800	PCB-21/33	7.6	J	40	0.45
38444-85-8	PCB-22	5.7	J	20	0.52
55720-44-0	PCB-23	ND		20	0.45
55702-45-9	PCB-24	ND		20	0.094
55712-37-3	PCB-25	1.3	J	20	0.45
STL01801	PCB-26/29	3.1	J	40	0.46
38444-76-7	PCB-27	0.45	J	20	0.092
16606-02-3	PCB-31	16	J B	20	0.45
38444-77-8	PCB-32	1.3	J B	20	0.081
37680-68-5	PCB-34	ND		20	0.46
37680-69-6	PCB-35	ND		20	0.54
38444-87-0	PCB-36	ND		20	0.48
38444-90-5	PCB-37	5.7	J	20	0.47
53555-66-1	PCB-38	ND		20	0.52
38444-88-1	PCB-39	ND		20	0.49

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW102-061113 | Lab Sample ID: 320-3015-27

Matrix: Tissue | Lab File ID: 25JN1312D8_57.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:15

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.12(g) | Date Analyzed: 06/28/2013 10:14

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	15	J	40	0.15
52663-59-9	PCB-41	1.3	J q U	20	0.19
36559-22-5	PCB-42	6.8	J B	20	0.16
70362-46-8	PCB-43	ND		20	0.16
STL01803	PCB-44/47/65	40	J B	59	0.14
70362-45-7	PCB-45	1.1	J q U	20	0.16
41464-47-5	PCB-46	ND		20	0.17
70362-47-9	PCB-48	3.5	J	20	0.15
STL01805	PCB-49/69	23	J B	40	0.12
STL01806	PCB-50/53	2.4	J B	40	0.14
68194-04-7	PCB-51	ND		20	0.14
35693-99-3	PCB-52	88	B	20	0.15
15968-05-5	PCB-54	ND		20	0.070
74338-24-2	PCB-55	ND		20	1.1
41464-43-1	PCB-56	11	J	20	1.2
70424-67-8	PCB-57	11	J	20	1.1
41464-49-7	PCB-58	ND		20	1.1
STL01807	PCB-59/62/75	2.5	J	59	0.11
33025-41-1	PCB-60	11	J	20	1.1
STL01808	PCB-61/70/74/76	140	B	79	1.1
74472-34-7	PCB-63	2.4	J	20	0.99
52663-58-8	PCB-64	9.6	J B	20	0.11
32598-10-0	PCB-66	70	B	20	1.2
73575-53-8	PCB-67	ND		20	1.0
73575-52-7	PCB-68	ND		20	0.95
41464-42-0	PCB-72	ND		20	1.0
74338-23-1	PCB-73	ND		20	0.12
32598-13-3	PCB-77	6.8		2.0	1.1
70362-49-1	PCB-78	ND		20	1.2
41464-48-6	PCB-79	7.8	J	20	1.1
33284-52-5	PCB-80	ND		20	1.0
70362-50-4	PCB-81	ND		2.0	1.1
52663-62-4	PCB-82	21		20	9.4
60145-20-2	PCB-83	11	J	20	9.4

 07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW102-061113 | Lab Sample ID: 320-3015-27

Matrix: Tissue | Lab File ID: 25JN1312D8_57.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:15

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.12(g) | Date Analyzed: 06/28/2013 10:14

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	47		20	8.1
STL01810	PCB-85/116/117	49	J	59	6.5
STL01811	PCB-86/87/97/108/119/125	220	B	120	6.4
STL01812	PCB-88/91	21	J	40	6.7
73575-57-2	PCB-89	ND		20	7.7
STL01813	PCB-90/101/113	720	B	59	6.4
52663-61-3	PCB-92	120		20	7.3
STL01814	PCB-93/100	ND		40	6.8
73575-55-0	PCB-94	ND		20	7.1
38379-99-6	PCB-95	360	B	20	6.7
73575-54-9	PCB-96	0.78	J	20	0.056
STL01843	PCB-98/102	12	J	40	6.4
38380-01-7	PCB-99	280		20	7.0
60145-21-3	PCB-103	8.4	J	20	6.1
56558-16-8	PCB-104	ND		20	0.080
32598-14-4	PCB-105	130	G	6.3	6.3
70424-69-0	PCB-106	ND		20	6.6
STL01815	PCB-107/124	19	J	40	6.2
74472-35-8	PCB-109	40		20	5.8
STL01826	PCB-110/115	440	B	40	5.6
39635-32-0	PCB-111	ND		20	5.5
74472-36-9	PCB-112	ND		20	5.2
74472-37-0	PCB-114	ND	G	6.3	6.3
31508-00-6	PCB-118	520	G B	6.2	6.2
68194-12-7	PCB-120	ND		20	5.7
56558-18-0	PCB-121	ND		20	5.1
76842-07-4	PCB-122	ND		20	7.1
65510-44-3	PCB-123	ND	G	6.5	6.5
57465-28-8	PCB-126	ND	G	6.5	6.5
39635-33-1	PCB-127	ND		20	6.6
STL01816	PCB-128/166	240		40	11
STL01817	PCB-129/138/163	3800	B	59	11
52663-66-8	PCB-130	140		20	14
61798-70-7	PCB-131	20		20	14

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW102-061113
Lab Sample ID: 320-3015-27
Matrix: Tissue
Lab File ID: 25JN1312D8_57.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:15
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.12(g)
Date Analyzed: 06/28/2013 10:14
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	660		20	13
35694-04-3	PCB-133	55		20	13
STL01818	PCB-134/143	83		40	13
STL01819	PCB-135/151	1200		40	11
38411-22-2	PCB-136	260		20	7.7
35694-06-5	PCB-137	14	J	20	12
STL01820	PCB-139/140	24	J	40	11
52712-04-6	PCB-141	63		20	12
41411-61-4	PCB-142	ND		20	13
68194-14-9	PCB-144	160		20	11
74472-40-5	PCB-145	ND		20	7.6
51908-16-8	PCB-146	750		20	12
STL01821	PCB-147/149	2500	B	40	11
74472-41-6	PCB-148	ND		20	11
68194-08-1	PCB-150	ND		20	7.1
68194-09-2	PCB-152	ND		20	7.0
STL01822	PCB-153/168	4400	B E J	40	9.6
60145-22-4	PCB-154	36		20	9.6
33979-03-2	PCB-155	ND		20	8.2
STL01792	PCB-156/157	130		4.0	1.0
74472-42-7	PCB-158	270		20	8.7
39635-35-3	PCB-159	ND		20	0.84
41411-62-5	PCB-160	ND		20	10
74472-43-8	PCB-161	ND		20	9.1
39635-34-2	PCB-162	34		20	0.81
74472-45-0	PCB-164	50		20	8.9
74472-46-1	PCB-165	ND		20	10
52663-72-6	PCB-167	110		2.0	0.72
32774-16-6	PCB-169	ND		2.0	0.91
35065-30-6	PCB-170	140	J	20	1.1
STL01823	PCB-171/173	370		40	1.0
52663-74-8	PCB-172	17	J	20	1.0
38411-25-5	PCB-174	20		20	1.1
40186-70-7	PCB-175	64		20	0.27

FORM I 1668A

02 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: SW102-061113 | Lab Sample ID: 320-3015-27

Matrix: Tissue | Lab File ID: 25JN1312D8_57.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:15

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.12(g) | Date Analyzed: 06/28/2013 10:14

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19566 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	160	J	20	0.19
52663-70-4	PCB-177	740		20	1.0
52663-67-9	PCB-178	330		20	0.27
52663-64-6	PCB-179	550		20	0.21
STL01824	PCB-180/193	770		40	0.83
74472-47-2	PCB-181	ND	J	20	0.88
60145-23-5	PCB-182	ND		20	0.25
52663-69-1	PCB-183	820	J	20	0.78
74472-48-3	PCB-184	ND	J	20	0.21
52712-05-7	PCB-185	ND		20	0.96
74472-49-4	PCB-186	ND		20	0.20
52663-68-0	PCB-187	1500	J	20	0.25
74487-85-7	PCB-188	ND	J	20	0.17
39635-31-9	PCB-189	33	J	2.0	0.22
41411-64-7	PCB-190	98		20	0.77
74472-50-7	PCB-191	18	J	20	0.74
74472-51-8	PCB-192	ND	J	20	0.77
35694-08-7	PCB-194	32	J	20	0.17
52663-78-2	PCB-195	9.6	J	20	0.16
42740-50-1	PCB-196	4.8	J	20	0.69
33091-17-7	PCB-197	21		20	0.47
STL01825	PCB-198/199	10	J	40	0.72
52663-73-7	PCB-200	ND	J	20	0.53
40186-71-8	PCB-201	85	J	20	0.49
2136-99-4	PCB-202	89		20	0.41
52663-76-0	PCB-203	48		20	0.65
74472-52-9	PCB-204	ND	J	20	0.51
74472-53-0	PCB-205	5.2	J	20	0.21
40186-72-9	PCB-206	3.8	J	20	0.74
52663-79-3	PCB-207	ND	J	20	0.41
52663-77-1	PCB-208	0.64	J q	20	0.38
2051-24-3	PCB-209	1.5	J B	20	0.18
27323-18-8	Total Monochlorobiphenyls	1.9	J q	200	0.20
25512-42-9	Total Dichlorobiphenyls	11	J q B	200	1.4

MMOB 7/13

FORM I 1668A

027 BdB

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: SW102-061113
Lab Sample ID: 320-3015-27
Matrix: Tissue
Lab File ID: 25JN1312D8_57.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:15
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.12(g)
Date Analyzed: 06/28/2013 10:14
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19566
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	76	J q B	200	0.35
26914-33-0	Total Tetrachlorobiphenyls	450	q B	200	0.61
25429-29-2	Total Pentachlorobiphenyls	3000	B	200	6.2
26601-64-9	Total Hexachlorobiphenyls	15000	B E J	200	9.1
28655-71-2	Total Heptachlorobiphenyls	5700	J	200	0.60
55722-26-4	Total Octachlorobiphenyls	300	J	200	0.46
53742-07-7	Total Nonachlorobiphenyls	4.4	J q J	200	0.51

14 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB01-061113
Lab Sample ID: 320-3015-28
Matrix: Tissue
Lab File ID: 25JN1312D8_61.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 15:52
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.43
2051-61-8	PCB-2	1.5	J q U	20	0.35
2051-62-9	PCB-3	ND		20	0.31
13029-08-8	PCB-4	ND		20	14
16605-91-7	PCB-5	ND		20	11
25569-80-6	PCB-6	ND		20	11
33284-50-3	PCB-7	ND		20	9.8
34883-43-7	PCB-8	ND		20	10
34883-39-1	PCB-9	ND		20	11
33146-45-1	PCB-10	ND		20	8.2
2050-67-1	PCB-11	ND		20	11
STL01797	PCB-12/13	ND		40	11
34883-41-5	PCB-14	ND		20	9.5
2050-68-2	PCB-15	ND		20	11
38444-78-9	PCB-16	4.4	J B	20	0.42
37680-66-3	PCB-17	2.1	J B	20	0.32
STL01798	PCB-18/30	7.6	J B	40	0.27
38444-73-4	PCB-19	ND		20	0.50
STL01799	PCB-20/28	59	B	40	0.70
STL01800	PCB-21/33	8.0	J	40	0.66
38444-85-8	PCB-22	9.1	J	20	0.75
55720-44-0	PCB-23	ND		20	0.65
55702-45-9	PCB-24	ND		20	0.24
55712-37-3	PCB-25	1.8	J	20	0.66
STL01801	PCB-26/29	6.0	J	40	0.66
38444-76-7	PCB-27	0.95	J	20	0.24
16606-02-3	PCB-31	34	B	20	0.65
38444-77-8	PCB-32	1.4	J B	20	0.21
37680-68-5	PCB-34	ND		20	0.66
37680-69-6	PCB-35	ND		20	0.78
38444-87-0	PCB-36	ND		20	0.69
38444-90-5	PCB-37	5.4	J	20	0.70
53555-66-1	PCB-38	ND		20	0.75
38444-88-1	PCB-39	ND		20	0.71

C27130113

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB01-061113
Lab Sample ID: 320-3015-28
Matrix: Tissue
Lab File ID: 25JN1312D8_61.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 15:52
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	13	J	40	0.35
52663-59-9	PCB-41	ND		20	0.44
36559-22-5	PCB-42	14	J B	20	0.37
70362-46-8	PCB-43	ND		20	0.38
STL01803	PCB-44/47/65	ND		59	0.33
70362-45-7	PCB-45	2.8	J	20	0.36
41464-47-5	PCB-46	ND		20	0.40
70362-47-9	PCB-48	3.7	J	20	0.35
STL01805	PCB-49/69	56	B	40	0.29
STL01806	PCB-50/53	4.1	J B	40	0.32
68194-04-7	PCB-51	ND		20	0.33
35693-99-3	PCB-52	210	B	20	0.35
15968-05-5	PCB-54	ND		20	0.15
74338-24-2	PCB-55	ND		20	1.5
41464-43-1	PCB-56	17	J	20	1.7
70424-67-8	PCB-57	10	J	20	1.6
41464-49-7	PCB-58	ND		20	1.6
STL01807	PCB-59/62/75	5.7	J	59	0.26
33025-41-1	PCB-60	35		20	1.6
STL01808	PCB-61/70/74/76	310	B	79	1.5
74472-34-7	PCB-63	7.5	J	20	1.4
52663-58-8	PCB-64	22	B	20	0.25
32598-10-0	PCB-66	170	B	20	1.7
73575-53-8	PCB-67	ND		20	1.4
73575-52-7	PCB-68	2.8	J	20	1.4
41464-42-0	PCB-72	ND		20	1.5
74338-23-1	PCB-73	ND		20	0.28
32598-13-3	PCB-77	4.4		2.0	1.8
70362-49-1	PCB-78	ND		20	1.7
41464-48-6	PCB-79	7.8	J	20	1.5
33284-52-5	PCB-80	ND		20	1.5
70362-50-4	PCB-81	ND		2.0	1.8
52663-62-4	PCB-82	34		20	9.8
60145-20-2	PCB-83	17	J	20	9.8

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB01-061113 | Lab Sample ID: 320-3015-28

Matrix: Tissue | Lab File ID: 25JN1312D8_61.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:55

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.11(g) | Date Analyzed: 06/28/2013 15:52

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	62		20	8.5
STL01810	PCB-85/116/117	100		59	6.8
STL01811	PCB-86/87/97/108/119/125	300	B	120	6.7
STL01812	PCB-88/91	28	J	40	7.0
73575-57-2	PCB-89	ND		20	8.1
STL01813	PCB-90/101/113	740	B	59	6.7
52663-61-3	PCB-92	130		20	7.6
STL01814	PCB-93/100	ND		40	7.1
73575-55-0	PCB-94	ND		20	7.4
38379-99-6	PCB-95	400	B	20	7.0
73575-54-9	PCB-96	0.80	J	20	0.073
STL01843	PCB-98/102	ND		40	6.7
38380-01-7	PCB-99	410		20	7.3
60145-21-3	PCB-103	ND		20	6.3
56558-16-8	PCB-104	ND		20	0.090
32598-14-4	PCB-105	210	G	7.1	7.1
70424-69-0	PCB-106	ND		20	6.9
STL01815	PCB-107/124	19	J	40	6.5
74472-35-8	PCB-109	41		20	6.0
STL01826	PCB-110/115	490	B	40	5.9
39635-32-0	PCB-111	ND		20	5.8
74472-36-9	PCB-112	ND		20	5.4
74472-37-0	PCB-114	9.9	G	6.7	6.7
31508-00-6	PCB-118	720	G B	6.6	6.6
68194-12-7	PCB-120	ND		20	5.9
56558-18-0	PCB-121	ND		20	5.3
76842-07-4	PCB-122	ND		20	7.5
65510-44-3	PCB-123	8.6	G	7.0	7.0
57465-28-8	PCB-126	ND	G	7.4	7.4
39635-33-1	PCB-127	ND		20	6.9
STL01816	PCB-128/166	200		40	8.3
STL01817	PCB-129/138/163	2400	B	59	9.0
52663-66-8	PCB-130	83		20	11
61798-70-7	PCB-131	ND		20	11

CE 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB01-061113
Lab Sample ID: 320-3015-28
Matrix: Tissue
Lab File ID: 25JN1312D8_61.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 15:52
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	340		20	10
35694-04-3	PCB-133	35		20	10
STL01818	PCB-134/143	54		40	10
STL01819	PCB-135/151	680		40	8.8
38411-22-2	PCB-136	150		20	6.1
35694-06-5	PCB-137	27		20	9.7
STL01820	PCB-139/140	14	J	40	8.7
52712-04-6	PCB-141	40		20	9.7
41411-61-4	PCB-142	ND		20	10
68194-14-9	PCB-144	87		20	8.6
74472-40-5	PCB-145	ND		20	6.0
51908-16-8	PCB-146	430		20	9.6
STL01821	PCB-147/149	1400	B	40	8.7
74472-41-6	PCB-148	ND		20	8.3
68194-08-1	PCB-150	ND		20	5.6
68194-09-2	PCB-152	ND		20	5.5
STL01822	PCB-153/168	2700	B	40	7.5
60145-22-4	PCB-154	18	J	20	7.6
33979-03-2	PCB-155	ND		20	6.2
STL01792	PCB-156/157	100		4.0	0.75
74472-42-7	PCB-158	170		20	6.8
39635-35-3	PCB-159	ND		20	0.63
41411-62-5	PCB-160	ND		20	7.9
74472-43-8	PCB-161	ND		20	7.1
39635-34-2	PCB-162	17	J	20	0.61
74472-45-0	PCB-164	37		20	7.0
74472-46-1	PCB-165	ND		20	8.1
52663-72-6	PCB-167	70		2.0	0.58
32774-16-6	PCB-169	ND		2.0	0.69
35065-30-6	PCB-170	98	J	20	0.63
STL01823	PCB-171/173	180		40	0.60
52663-74-8	PCB-172	9.5	J	20	0.61
38411-25-5	PCB-174	9.8	J	20	0.62
40186-70-7	PCB-175	31		20	0.35

FORM I 1668A

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB01-061113 | Lab Sample ID: 320-3015-28

Matrix: Tissue | Lab File ID: 25JN1312D8_61.d

Analysis Method: 1668A | Date Collected: 06/11/2013 11:55

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.11(g) | Date Analyzed: 06/28/2013 15:52

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	70	J	20	0.25
52663-70-4	PCB-177	370		20	0.61
52663-67-9	PCB-178	180		20	0.36
52663-64-6	PCB-179	260		20	0.27
STL01824	PCB-180/193	510		40	0.49
74472-47-2	PCB-181	ND	UJ	20	0.52
60145-23-5	PCB-182	ND		20	0.32
52663-69-1	PCB-183	410	J	20	0.46
74472-48-3	PCB-184	4.0	J J	20	0.27
52712-05-7	PCB-185	ND	UJ	20	0.56
74472-49-4	PCB-186	ND		20	0.26
52663-68-0	PCB-187	900	J	20	0.33
74487-85-7	PCB-188	ND	UJ	20	0.21
39635-31-9	PCB-189	16	J	2.0	0.22
41411-64-7	PCB-190	49		20	0.45
74472-50-7	PCB-191	9.9	J	20	0.43
74472-51-8	PCB-192	ND	UJ	20	0.45
35694-08-7	PCB-194	21	J	20	0.18
52663-78-2	PCB-195	6.6	J	20	0.17
42740-50-1	PCB-196	3.3	J	20	0.39
33091-17-7	PCB-197	13	J	20	0.26
STL01825	PCB-198/199	6.9	J	40	0.40
52663-73-7	PCB-200	ND	UJ	20	0.30
40186-71-8	PCB-201	46	J	20	0.28
2136-99-4	PCB-202	52		20	0.24
52663-76-0	PCB-203	34		20	0.37
74472-52-9	PCB-204	ND	UJ	20	0.29
74472-53-0	PCB-205	3.4	J	20	0.21
40186-72-9	PCB-206	2.4	J	20	0.41
52663-79-3	PCB-207	0.48	J J	20	0.25
52663-77-1	PCB-208	0.35	J q UJ	20	0.24
2051-24-3	PCB-209	0.93	J B	20	0.17
27323-18-8	Total Monochlorobiphenyls	1.5	J q U	200	0.36
25512-42-9	Total Dichlorobiphenyls	ND		200	14

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB01-061113
Lab Sample ID: 320-3015-28
Matrix: Tissue
Lab File ID: 25JN1312D8_61.d
Analysis Method: 1668A
Date Collected: 06/11/2013 11:55
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.11(g)
Date Analyzed: 06/28/2013 15:52
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	140	J B	200	0.56
26914-33-0	Total Tetrachlorobiphenyls	900	B	200	0.95
25429-29-2	Total Pentachlorobiphenyls	3700	B	200	6.6
26601-64-9	Total Hexachlorobiphenyls	9100	B	200	7.2
28655-71-2	Total Heptachlorobiphenyls	3100	J	200	0.42
55722-26-4	Total Octachlorobiphenyls	190	J J	200	0.28
53742-07-7	Total Nonachlorobiphenyls	3.3	J q J	200	0.30

MU 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT02-061513 | Lab Sample ID: 320-3015-29

Matrix: Tissue | Lab File ID: 25JN1312D8_62.d

Analysis Method: 1668A | Date Collected: 06/15/2013 22:21

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.36(g) | Date Analyzed: 06/28/2013 17:05

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.31
2051-61-8	PCB-2	1.3	J q U	19	0.27
2051-62-9	PCB-3	0.46	J q U	19	0.25
13029-08-8	PCB-4	ND		19	13
16605-91-7	PCB-5	ND		19	11
25569-80-6	PCB-6	ND		19	11
33284-50-3	PCB-7	ND		19	9.8
34883-43-7	PCB-8	ND		19	10
34883-39-1	PCB-9	ND		19	11
33146-45-1	PCB-10	ND		19	8.0
2050-67-1	PCB-11	ND		19	11
STL01797	PCB-12/13	ND		39	11
34883-41-5	PCB-14	ND		19	9.6
2050-68-2	PCB-15	ND		19	11
38444-78-9	PCB-16	4.1	J B	19	0.40
37680-66-3	PCB-17	2.1	J B	19	0.31
STL01798	PCB-18/30	7.6	J B	39	0.26
38444-73-4	PCB-19	0.90	J	19	0.45
STL01799	PCB-20/28	42	B	39	0.57
STL01800	PCB-21/33	8.0	J	39	0.53
38444-85-8	PCB-22	6.8	J	19	0.61
55720-44-0	PCB-23	ND		19	0.52
55702-45-9	PCB-24	ND		19	0.23
55712-37-3	PCB-25	1.4	J	19	0.53
STL01801	PCB-26/29	4.6	J	39	0.54
38444-76-7	PCB-27	0.80	J	19	0.23
16606-02-3	PCB-31	26	B	19	0.53
38444-77-8	PCB-32	1.4	J B	19	0.20
37680-68-5	PCB-34	ND		19	0.54
37680-69-6	PCB-35	ND		19	0.64
38444-87-0	PCB-36	ND		19	0.56
38444-90-5	PCB-37	5.4	J	19	0.59
53555-66-1	PCB-38	ND		19	0.61
38444-88-1	PCB-39	ND		19	0.57

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KBALT02-061513
Lab Sample ID: 320-3015-29
Matrix: Tissue
Lab File ID: 25JN1312D8_62.d
Analysis Method: 1668A
Date Collected: 06/15/2013 22:21
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.36(g)
Date Analyzed: 06/28/2013 17:05
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	14	J	39	0.30
52663-59-9	PCB-41	ND		19	0.37
36559-22-5	PCB-42	12	J B	19	0.32
70362-46-8	PCB-43	ND		19	0.32
STL01803	PCB-44/47/65	100	B	58	0.28
70362-45-7	PCB-45	ND		19	0.31
41464-47-5	PCB-46	ND		19	0.34
70362-47-9	PCB-48	4.9	J	19	0.30
STL01805	PCB-49/69	51	B	39	0.25
STL01806	PCB-50/53	4.1	J B	39	0.27
68194-04-7	PCB-51	ND		19	0.28
35693-99-3	PCB-52	260	B	19	0.30
15968-05-5	PCB-54	ND		19	0.13
74338-24-2	PCB-55	ND		19	1.8
41464-43-1	PCB-56	23		19	2.0
70424-67-8	PCB-57	14	J	19	1.8
41464-49-7	PCB-58	ND		19	1.8
STL01807	PCB-59/62/75	4.1	J	58	0.22
33025-41-1	PCB-60	27		19	1.9
STL01808	PCB-61/70/74/76	370	B	77	1.8
74472-34-7	PCB-63	5.5	J	19	1.6
52663-58-8	PCB-64	20	B	19	0.21
32598-10-0	PCB-66	160	B	19	2.0
73575-53-8	PCB-67	ND		19	1.6
73575-52-7	PCB-68	ND		19	1.6
41464-42-0	PCB-72	ND		19	1.7
74338-23-1	PCB-73	ND		19	0.24
32598-13-3	PCB-77	4.4	G	2.0	2.0
70362-49-1	PCB-78	ND		19	2.0
41464-48-6	PCB-79	13	J	19	1.8
33284-52-5	PCB-80	ND		19	1.7
70362-50-4	PCB-81	ND	G	2.0	2.0
52663-62-4	PCB-82	58		19	15
60145-20-2	PCB-83	25		19	15

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT02-061513 | Lab Sample ID: 320-3015-29

Matrix: Tissue | Lab File ID: 25JN1312D8_62.d

Analysis Method: 1668A | Date Collected: 06/15/2013 22:21

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.36(g) | Date Analyzed: 06/28/2013 17:05

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	95		19	13
STL01810	PCB-85/116/117	140		58	10
STL01811	PCB-86/87/97/108/119/125	450	B	120	10
STL01812	PCB-88/91	38	J	39	11
73575-57-2	PCB-89	ND		19	13
STL01813	PCB-90/101/113	1100	B	58	10
52663-61-3	PCB-92	180		19	12
STL01814	PCB-93/100	ND		39	11
73575-55-0	PCB-94	ND		19	11
38379-99-6	PCB-95	500	B	19	11
73575-54-9	PCB-96	1.3	J	19	0.054
STL01843	PCB-98/102	10	J	39	10
38380-01-7	PCB-99	540		19	11
60145-21-3	PCB-103	ND		19	9.8
56558-16-8	PCB-104	ND		19	0.069
32598-14-4	PCB-105	340	G	11	11
70424-69-0	PCB-106	ND		19	11
STL01815	PCB-107/124	31	J	39	10
74472-35-8	PCB-109	53		19	9.4
STL01826	PCB-110/115	780	B	39	9.1
39635-32-0	PCB-111	ND		19	8.9
74472-36-9	PCB-112	ND		19	8.4
74472-37-0	PCB-114	15	G	10	10
31508-00-6	PCB-118	1100	G B	10	10
68194-12-7	PCB-120	ND		19	9.2
56558-18-0	PCB-121	ND		19	8.2
76842-07-4	PCB-122	ND		19	12
65510-44-3	PCB-123	13	G	11	11
57465-28-8	PCB-126	ND	G	11	11
39635-33-1	PCB-127	ND		19	11
STL01816	PCB-128/166	280		39	10
STL01817	PCB-129/138/163	2800	B	58	11
52663-66-8	PCB-130	110		19	14
61798-70-7	PCB-131	18	J	19	13

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KBALT02-061513
Lab Sample ID: 320-3015-29
Matrix: Tissue
Lab File ID: 25JN1312D8_62.d
Analysis Method: 1668A
Date Collected: 06/15/2013 22:21
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.36(g)
Date Analyzed: 06/28/2013 17:05
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	380		19	12
35694-04-3	PCB-133	38		19	12
STL01818	PCB-134/143	66		39	12
STL01819	PCB-135/151	690		39	11
38411-22-2	PCB-136	160		19	7.3
35694-06-5	PCB-137	33		19	12
STL01820	PCB-139/140	24	J	39	11
52712-04-6	PCB-141	25		19	12
41411-61-4	PCB-142	ND		19	12
68194-14-9	PCB-144	93		19	10
74472-40-5	PCB-145	ND		19	7.2
51908-16-8	PCB-146	460		19	12
STL01821	PCB-147/149	1500	B	39	10
74472-41-6	PCB-148	ND		19	10
68194-08-1	PCB-150	ND		19	6.7
68194-09-2	PCB-152	ND		19	6.7
STL01822	PCB-153/168	3100	B	39	9.1
60145-22-4	PCB-154	19		19	9.2
33979-03-2	PCB-155	ND		19	7.4
STL01792	PCB-156/157	160		3.9	0.94
74472-42-7	PCB-158	240		19	8.2
39635-35-3	PCB-159	ND		19	0.78
41411-62-5	PCB-160	ND		19	9.6
74472-43-8	PCB-161	ND		19	8.6
39635-34-2	PCB-162	16	J	19	0.75
74472-45-0	PCB-164	27		19	8.5
74472-46-1	PCB-165	ND		19	9.7
52663-72-6	PCB-167	100		1.9	0.71
32774-16-6	PCB-169	ND		1.9	0.85
35065-30-6	PCB-170	58	J	19	0.46
STL01823	PCB-171/173	170	J	39	0.44
52663-74-8	PCB-172	ND	UJ	19	0.44
38411-25-5	PCB-174	ND	UJ	19	0.45
40186-70-7	PCB-175	28	J	19	0.26

FORM I 1668A

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT02-061513 | Lab Sample ID: 320-3015-29

Matrix: Tissue | Lab File ID: 25JN1312D8_62.d

Analysis Method: 1668A | Date Collected: 06/15/2013 22:21

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.36(g) | Date Analyzed: 06/28/2013 17:05

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	60	J	19	0.19
52663-70-4	PCB-177	310		19	0.44
52663-67-9	PCB-178	150		19	0.27
52663-64-6	PCB-179	220		19	0.20
STL01824	PCB-180/193	370		39	0.35
74472-47-2	PCB-181	ND	UJ	19	0.37
60145-23-5	PCB-182	ND		19	0.24
52663-69-1	PCB-183	360	J	19	0.33
74472-48-3	PCB-184	3.0	J	19	0.20
52712-05-7	PCB-185	ND	UJ	19	0.41
74472-49-4	PCB-186	ND		19	0.20
52663-68-0	PCB-187	770	J	19	0.25
74487-85-7	PCB-188	ND	UJ	19	0.16
39635-31-9	PCB-189	16		1.9	0.24
41411-64-7	PCB-190	42	J	19	0.32
74472-50-7	PCB-191	7.8	J	19	0.31
74472-51-8	PCB-192	ND	UJ	19	0.33
35694-08-7	PCB-194	12	J	19	0.18
52663-78-2	PCB-195	3.3	J	19	0.17
42740-50-1	PCB-196	2.5	J	19	0.38
33091-17-7	PCB-197	10	J	19	0.25
STL01825	PCB-198/199	3.7	J	39	0.39
52663-73-7	PCB-200	ND	UJ	19	0.29
40186-71-8	PCB-201	40	J	19	0.27
2136-99-4	PCB-202	46		19	0.23
52663-76-0	PCB-203	25		19	0.35
74472-52-9	PCB-204	ND	UJ	19	0.28
74472-53-0	PCB-205	2.0	J	19	0.21
40186-72-9	PCB-206	1.9	J	19	0.75
52663-79-3	PCB-207	ND	UJ	19	0.42
52663-77-1	PCB-208	ND	UJ	19	0.39
2051-24-3	PCB-209	1.0	J B	19	0.20
27323-18-8	Total Monochlorobiphenyls	1.8	J q U	190	0.28
25512-42-9	Total Dichlorobiphenyls	ND		190	13

07/12/2013

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KBALT02-061513
Lab Sample ID: 320-3015-29
Matrix: Tissue
Lab File ID: 25JN1312D8_62.d
Analysis Method: 1668A
Date Collected: 06/15/2013 22:21
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.36(g)
Date Analyzed: 06/28/2013 17:05
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	110	J B	190	0.47
26914-33-0	Total Tetrachlorobiphenyls	1100	B	190	1.0
25429-29-2	Total Pentachlorobiphenyls	5500	B	190	10
26601-64-9	Total Hexachlorobiphenyls	10000	B	190	8.7
28655-71-2	Total Heptachlorobiphenyls	2600	J	190	0.31
55722-26-4	Total Octachlorobiphenyls	150	J	190	0.27
53742-07-7	Total Nonachlorobiphenyls	1.9	J	190	0.52

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT03-061513 | Lab Sample ID: 320-3015-30

Matrix: Tissue | Lab File ID: 25JN1312D8_63.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:47

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 18:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.33
2051-61-8	PCB-2	2.7	J q U	20	0.33
2051-62-9	PCB-3	ND		20	0.35
13029-08-8	PCB-4	ND		20	8.7
16605-91-7	PCB-5	ND		20	13
25569-80-6	PCB-6	ND		20	13
33284-50-3	PCB-7	ND		20	12
34883-43-7	PCB-8	ND		20	12
34883-39-1	PCB-9	ND		20	13
33146-45-1	PCB-10	ND		20	7.8
2050-67-1	PCB-11	ND		20	13
STL01797	PCB-12/13	ND		39	13
34883-41-5	PCB-14	ND		20	11
2050-68-2	PCB-15	ND		20	18
38444-78-9	PCB-16	1.7	J B	20	0.54
37680-66-3	PCB-17	0.81	J q B U	20	0.41
STL01798	PCB-18/30	3.3	J B	39	0.35
38444-73-4	PCB-19	ND		20	0.51
STL01799	PCB-20/28	14	J B	39	0.74
STL01800	PCB-21/33	3.1	J	39	0.69
38444-85-8	PCB-22	1.6	J q U	20	0.80
55720-44-0	PCB-23	ND		20	0.68
55702-45-9	PCB-24	ND		20	0.31
55712-37-3	PCB-25	ND		20	0.69
STL01801	PCB-26/29	1.1	J q U	39	0.70
38444-76-7	PCB-27	ND		20	0.31
16606-02-3	PCB-31	8.4	J B	20	0.69
38444-77-8	PCB-32	0.78	J B	20	0.27
37680-68-5	PCB-34	ND		20	0.70
37680-69-6	PCB-35	ND		20	0.83
38444-87-0	PCB-36	ND		20	0.73
38444-90-5	PCB-37	2.2	J	20	0.87
53555-66-1	PCB-38	ND		20	0.80
38444-88-1	PCB-39	ND		20	0.75

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT03-061513 | Lab Sample ID: 320-3015-30

Matrix: Tissue | Lab File ID: 25JN1312D8_63.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:47

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 18:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	4.1	J J	39	0.15
52663-59-9	PCB-41	ND	UJ	20	0.18
36559-22-5	PCB-42	3.2	J q B UJ	20	0.16
70362-46-8	PCB-43	ND		20	0.16
STL01803	PCB-44/47/65	28	J B J	59	0.14
70362-45-7	PCB-45	ND	UJ	20	0.15
41464-47-5	PCB-46	ND		20	0.17
70362-47-9	PCB-48	1.5	J J	20	0.15
STL01805	PCB-49/69	13	J B	39	0.12
STL01806	PCB-50/53	0.95	J q B UJ	39	0.13
68194-04-7	PCB-51	ND	UJ	20	0.14
35693-99-3	PCB-52	61	B J	20	0.15
15968-05-5	PCB-54	ND		20	0.21
74338-24-2	PCB-55	ND	UJ	20	0.67
41464-43-1	PCB-56	8.8	J J	20	0.75
70424-67-8	PCB-57	ND	UJ	20	0.68
41464-49-7	PCB-58	2.2	J J	20	0.68
STL01807	PCB-59/62/75	0.81	J q UJ	59	0.11
33025-41-1	PCB-60	11	J J	20	0.71
STL01808	PCB-61/70/74/76	120	B J	79	0.67
74472-34-7	PCB-63	2.1	J	20	0.63
52663-58-8	PCB-64	6.5	J B	20	0.10
32598-10-0	PCB-66	52	B	20	0.76
73575-53-8	PCB-67	ND	UJ	20	0.63
73575-52-7	PCB-68	ND		20	0.60
41464-42-0	PCB-72	ND		20	0.65
74338-23-1	PCB-73	ND		20	0.12
32598-13-3	PCB-77	2.4	J	2.0	0.65
70362-49-1	PCB-78	ND	UJ	20	0.76
41464-48-6	PCB-79	4.5	J J	20	0.67
33284-52-5	PCB-80	1.2	J J	20	0.64
70362-50-4	PCB-81	ND		2.0	0.70
52663-62-4	PCB-82	18	J J	20	4.3
60145-20-2	PCB-83	7.8	J	20	4.2

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT03-061513 | Lab Sample ID: 320-3015-30

Matrix: Tissue | Lab File ID: 25JN1312D8_63.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:47

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 18:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	25	J	20	3.7
STL01810	PCB-85/116/117	46	J	59	2.9
STL01811	PCB-86/87/97/108/119/125	130	B	120	2.9
STL01812	PCB-88/91	12	J	39	3.1
73575-57-2	PCB-89	ND	UJ	20	3.5
STL01813	PCB-90/101/113	240	B J	59	2.9
52663-61-3	PCB-92	44	J	20	3.3
STL01814	PCB-93/100	ND	UJ	39	3.1
73575-55-0	PCB-94	ND	J	20	3.2
38379-99-6	PCB-95	84	B J	20	3.0
73575-54-9	PCB-96	0.25	J q UJ	20	0.065
STL01843	PCB-98/102	ND	J	39	2.9
38380-01-7	PCB-99	160	~~J~~ MH 8/13/13	20	3.2
60145-21-3	PCB-103	ND	UJ	20	2.7
56558-16-8	PCB-104	ND		20	0.16
32598-14-4	PCB-105	120	G	2.6	2.6
70424-69-0	PCB-106	ND	UJ	20	3.0
STL01815	PCB-107/124	11	J J	39	2.8
74472-35-8	PCB-109	21		20	2.6
STL01826	PCB-110/115	200	B	39	2.6
39635-32-0	PCB-111	ND	UJ	20	2.5
74472-36-9	PCB-112	ND	J	20	2.4
74472-37-0	PCB-114	5.6	G	2.6	2.6
31508-00-6	PCB-118	370	G B	2.6	2.6
68194-12-7	PCB-120	ND	UJ	20	2.6
56558-18-0	PCB-121	ND		20	2.3
76842-07-4	PCB-122	ND	J	20	3.2
65510-44-3	PCB-123	4.8	G	2.7	2.7
57465-28-8	PCB-126	ND	G	2.5	2.5
39635-33-1	PCB-127	ND	UJ	20	3.0
STL01816	PCB-128/166	81		39	2.7
STL01817	PCB-129/138/163	700	B	59	2.9
52663-66-8	PCB-130	30		20	3.6
61798-70-7	PCB-131	ND		20	3.5

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT03-061513 | Lab Sample ID: 320-3015-30

Matrix: Tissue | Lab File ID: 25JN1312D8_63.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:47

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 18:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	84		20	3.2
35694-04-3	PCB-133	11	J	20	3.3
STL01818	PCB-134/143	13	J	39	3.2
STL01819	PCB-135/151	110		39	2.8
38411-22-2	PCB-136	20		20	2.0
35694-06-5	PCB-137	14	J	20	3.1
STL01820	PCB-139/140	6.9	J	39	2.8
52712-04-6	PCB-141	6.2	J	20	3.1
41411-61-4	PCB-142	ND		20	3.2
68194-14-9	PCB-144	16	J	20	2.8
74472-40-5	PCB-145	ND		20	1.9
51908-16-8	PCB-146	110		20	3.1
STL01821	PCB-147/149	250	B	39	2.8
74472-41-6	PCB-148	ND		20	2.7
68194-08-1	PCB-150	ND		20	1.8
68194-09-2	PCB-152	ND		20	1.8
STL01822	PCB-153/168	710	B	39	2.4
60145-22-4	PCB-154	6.0	J	20	2.4
33979-03-2	PCB-155	ND		20	2.9
STL01792	PCB-156/157	46		3.9	0.42
74472-42-7	PCB-158	54		20	2.2
39635-35-3	PCB-159	ND		20	0.38
41411-62-5	PCB-160	ND		20	2.6
74472-43-8	PCB-161	ND		20	2.3
39635-34-2	PCB-162	4.4	J	20	0.36
74472-45-0	PCB-164	6.7	J	20	2.3
74472-46-1	PCB-165	ND		20	2.6
52663-72-6	PCB-167	26		2.0	0.31
32774-16-6	PCB-169	ND		2.0	0.38
35065-30-6	PCB-170	16	J J	20	0.21
STL01823	PCB-171/173	39	J	39	0.20
52663-74-8	PCB-172	ND	UJ	20	0.21
38411-25-5	PCB-174	ND	UJ	20	0.21
40186-70-7	PCB-175	7.1	J J	20	0.23

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KBALT03-061513 | Lab Sample ID: 320-3015-30

Matrix: Tissue | Lab File ID: 25JN1312D8_63.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:47

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.13(g) | Date Analyzed: 06/28/2013 18:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	11	J J	20	0.17
52663-70-4	PCB-177	71		20	0.21
52663-67-9	PCB-178	41		20	0.24
52663-64-6	PCB-179	44		20	0.18
STL01824	PCB-180/193	86		39	0.16
74472-47-2	PCB-181	ND	UJ	20	0.18
60145-23-5	PCB-182	ND		20	0.22
52663-69-1	PCB-183	85	J	20	0.15
74472-48-3	PCB-184	1.6	J	20	0.18
52712-05-7	PCB-185	ND	UJ	20	0.19
74472-49-4	PCB-186	ND		20	0.17
52663-68-0	PCB-187	160	J	20	0.22
74487-85-7	PCB-188	ND	UJ	20	0.16
39635-31-9	PCB-189	3.4		2.0	0.26
41411-64-7	PCB-190	9.3	J J	20	0.15
74472-50-7	PCB-191	2.0	J	20	0.15
74472-51-8	PCB-192	ND	UJ	20	0.15
35694-08-7	PCB-194	3.0	J J	20	0.25
52663-78-2	PCB-195	0.71	J	20	0.23
42740-50-1	PCB-196	ND	UJ	20	0.21
33091-17-7	PCB-197	3.1	J J	20	0.14
STL01825	PCB-198/199	1.1	J	39	0.22
52663-73-7	PCB-200	ND	UJ	20	0.16
40186-71-8	PCB-201	11	J J	20	0.15
2136-99-4	PCB-202	14	J	20	0.13
52663-76-0	PCB-203	5.7	J	20	0.20
74472-52-9	PCB-204	ND	UJ	20	0.16
74472-53-0	PCB-205	0.50	J q u	20	0.27
40186-72-9	PCB-206	2.7	J	20	0.93
52663-79-3	PCB-207	ND		20	0.55
52663-77-1	PCB-208	ND		20	0.52
2051-24-3	PCB-209	4.2	J B	20	0.24
27323-18-8	Total Monochlorobiphenyls	2.7	J q u	200	0.33
25512-42-9	Total Dichlorobiphenyls	ND		200	18

FORM I 1668A

μnob/273

07/12/2013

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KBALT03-061513
Lab Sample ID: 320-3015-30
Matrix: Tissue
Lab File ID: 25JN1312D8_63.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:47
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.13(g)
Date Analyzed: 06/28/2013 18:19
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	37	J q B	200	0.62
26914-33-0	Total Tetrachlorobiphenyls	320	q B	J 200	0.41
25429-29-2	Total Pentachlorobiphenyls	1500	q B	J 200	2.8
26601-64-9	Total Hexachlorobiphenyls	2300	B	200	2.4
28655-71-2	Total Heptachlorobiphenyls	570		J 200	0.19
55722-26-4	Total Octachlorobiphenyls	39	J q	J 200	0.19
53742-07-7	Total Nonachlorobiphenyls	2.7	J	200	0.66

MH 08/12/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB04-061513
Lab Sample ID: 320-3015-31
Matrix: Tissue
Lab File ID: 25JN1312D8_64.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:28
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.44(g)
Date Analyzed: 06/28/2013 19:32
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		19	0.31
2051-61-8	PCB-2	1.4	J	19	0.27
2051-62-9	PCB-3	ND		19	0.25
13029-08-8	PCB-4	ND		19	12
16605-91-7	PCB-5	ND		19	7.9
25569-80-6	PCB-6	ND		19	7.9
33284-50-3	PCB-7	ND		19	7.2
34883-43-7	PCB-8	ND		19	7.6
34883-39-1	PCB-9	ND		19	8.2
33146-45-1	PCB-10	ND		19	7.3
2050-67-1	PCB-11	ND		19	8.0
STL01797	PCB-12/13	ND		38	8.1
34883-41-5	PCB-14	ND		19	7.0
2050-68-2	PCB-15	ND		19	8.0
38444-78-9	PCB-16	1.2	J q B U	19	0.32
37680-66-3	PCB-17	0.63	J q B	19	0.24
STL01798	PCB-18/30	2.4	J B	38	0.21
38444-73-4	PCB-19	ND		19	0.37
STL01799	PCB-20/28	9.7	J B	38	0.33
STL01800	PCB-21/33	2.8	J	38	0.31
38444-85-8	PCB-22	2.1	J	19	0.36
55720-44-0	PCB-23	ND		19	0.31
55702-45-9	PCB-24	ND		19	0.19
55712-37-3	PCB-25	0.48	J	19	0.31
STL01801	PCB-26/29	1.2	J q U	38	0.31
38444-76-7	PCB-27	0.21	J	19	0.18
16606-02-3	PCB-31	7.0	J B	19	0.31
38444-77-8	PCB-32	0.28	J B U	19	0.16
37680-68-5	PCB-34	ND		19	0.31
37680-69-6	PCB-35	ND		19	0.37
38444-87-0	PCB-36	ND		19	0.33
38444-90-5	PCB-37	1.6	J	19	0.34
53555-66-1	PCB-38	ND		19	0.36
38444-88-1	PCB-39	ND		19	0.33

FORM I 1668A

CR 7/30/13

07/12/2013

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB04-061513 | Lab Sample ID: 320-3015-31

Matrix: Tissue | Lab File ID: 25JN1312D8_64.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:28

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.44(g) | Date Analyzed: 06/28/2013 19:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	3.6	J	38	0.10
52663-59-9	PCB-41	ND		19	0.13
36559-22-5	PCB-42	2.5	J B	19	0.11
70362-46-8	PCB-43	ND		19	0.11
STL01803	PCB-44/47/65	20	J B	57	0.097
70362-45-7	PCB-45	0.62	J	19	0.11
41464-47-5	PCB-46	ND		19	0.12
70362-47-9	PCB-48	1.4	J	19	0.10
STL01805	PCB-49/69	9.0	J B	38	0.085
STL01806	PCB-50/53	0.96	J B	38	0.093
68194-04-7	PCB-51	ND		19	0.096
35693-99-3	PCB-52	44	B	19	0.10
15968-05-5	PCB-54	ND		19	0.094
74338-24-2	PCB-55	ND		19	0.41
41464-43-1	PCB-56	5.2	J	19	0.46
70424-67-8	PCB-57	2.1	J	19	0.41
41464-49-7	PCB-58	ND		19	0.41
STL01807	PCB-59/62/75	0.99	J	57	0.076
33025-41-1	PCB-60	6.0	J	19	0.43
STL01808	PCB-61/70/74/76	75	J B	77	0.41
74472-34-7	PCB-63	1.3	J	19	0.38
52663-58-8	PCB-64	4.0	J B	19	0.072
32598-10-0	PCB-66	31	B	19	0.46
73575-53-8	PCB-67	ND		19	0.38
73575-52-7	PCB-68	ND		19	0.36
41464-42-0	PCB-72	ND		19	0.40
74338-23-1	PCB-73	ND		19	0.081
32598-13-3	PCB-77	1.5	J	1.9	0.47
70362-49-1	PCB-78	ND		19	0.46
41464-48-6	PCB-79	2.6	J	19	0.41
33284-52-5	PCB-80	ND		19	0.39
70362-50-4	PCB-81	ND		1.9	0.46
52663-62-4	PCB-82	12	J	19	2.7
60145-20-2	PCB-83	5.0	J	19	2.7

02/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB04-061513 | Lab Sample ID: 320-3015-31

Matrix: Tissue | Lab File ID: 25JN1312D8_64.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:28

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.44(g) | Date Analyzed: 06/28/2013 19:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	18	J	19	2.4
STL01810	PCB-85/116/117	28	J	57	1.9
STL01811	PCB-86/87/97/108/119/125	87	J B	110	1.9
STL01812	PCB-88/91	7.5	J	38	2.0
73575-57-2	PCB-89	ND		19	2.3
STL01813	PCB-90/101/113	180	B	57	1.9
52663-61-3	PCB-92	31		19	2.1
STL01814	PCB-93/100	ND		38	2.0
73575-55-0	PCB-94	ND		19	2.1
38379-99-6	PCB-95	73	B	19	2.0
73575-54-9	PCB-96	0.27	J	19	0.054
STL01843	PCB-98/102	ND		38	1.9
38380-01-7	PCB-99	110		19	2.0
60145-21-3	PCB-103	ND		19	1.8
56558-16-8	PCB-104	ND		19	0.068
32598-14-4	PCB-105	73		1.9	1.9
70424-69-0	PCB-106	ND		19	1.9
STL01815	PCB-107/124	6.0	J	38	1.8
74472-35-8	PCB-109	13	J	19	1.7
STL01826	PCB-110/115	140	B	38	1.6
39635-32-0	PCB-111	ND		19	1.6
74472-36-9	PCB-112	ND		19	1.5
74472-37-0	PCB-114	3.1		1.9	1.9
31508-00-6	PCB-118	230	B	1.9	1.8
68194-12-7	PCB-120	ND		19	1.7
56558-18-0	PCB-121	ND		19	1.5
76842-07-4	PCB-122	ND		19	2.1
65510-44-3	PCB-123	2.4	G	2.0	2.0
57465-28-8	PCB-126	ND	G	2.0	2.0
39635-33-1	PCB-127	ND		19	1.9
STL01816	PCB-128/166	56		38	1.7
STL01817	PCB-129/138/163	520	B	57	1.8
52663-66-8	PCB-130	25		19	2.2
61798-70-7	PCB-131	ND		19	2.2

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB04-061513 | Lab Sample ID: 320-3015-31

Matrix: Tissue | Lab File ID: 25JN1312D8_64.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:28

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.44(g) | Date Analyzed: 06/28/2013 19:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	59		19	2.0
35694-04-3	PCB-133	8.6	J	19	2.1
STL01818	PCB-134/143	12	J	38	2.0
STL01819	PCB-135/151	110		38	1.8
38411-22-2	PCB-136	22		19	1.2
35694-06-5	PCB-137	6.6	J	19	1.9
STL01820	PCB-139/140	5.4	J	38	1.7
52712-04-6	PCB-141	4.1	J	19	1.9
41411-61-4	PCB-142	ND		19	2.0
68194-14-9	PCB-144	15	J	19	1.7
74472-40-5	PCB-145	ND		19	1.2
51908-16-8	PCB-146	95		19	1.9
STL01821	PCB-147/149	240	B	38	1.7
74472-41-6	PCB-148	ND		19	1.7
68194-08-1	PCB-150	ND		19	1.1
68194-09-2	PCB-152	ND		19	1.1
STL01822	PCB-153/168	560	B	38	1.5
60145-22-4	PCB-154	5.7	J	19	1.5
33979-03-2	PCB-155	ND		19	1.2
STL01792	PCB-156/157	31		3.8	0.41
74472-42-7	PCB-158	41		19	1.4
39635-35-3	PCB-159	ND		19	0.34
41411-62-5	PCB-160	ND		19	1.6
74472-43-8	PCB-161	ND		19	1.4
39635-34-2	PCB-162	3.4	J	19	0.33
74472-45-0	PCB-164	3.7	J	19	1.4
74472-46-1	PCB-165	ND		19	1.6
52663-72-6	PCB-167	19		1.9	0.30
32774-16-6	PCB-169	ND		1.9	0.41
35065-30-6	PCB-170	8.1	J J	19	0.15
STL01823	PCB-171/173	33	J J	38	0.15
52663-74-8	PCB-172	ND	J	19	0.15
38411-25-5	PCB-174	ND	J	19	0.15
40186-70-7	PCB-175	5.9	J J	19	0.19

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB04-061513 | Lab Sample ID: 320-3015-31

Matrix: Tissue | Lab File ID: 25JN1312D8_64.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:28

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.44(g) | Date Analyzed: 06/28/2013 19:32

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	11	J J	19	0.13
52663-70-4	PCB-177	65		19	0.15
52663-67-9	PCB-178	33		19	0.19
52663-64-6	PCB-179	42		19	0.14
STL01824	PCB-180/193	44		38	0.12
74472-47-2	PCB-181	ND	U J	19	0.13
60145-23-5	PCB-182	ND		19	0.17
52663-69-1	PCB-183	71	J	19	0.11
74472-48-3	PCB-184	0.90	J	19	0.14
52712-05-7	PCB-185	ND	U J	19	0.14
74472-49-4	PCB-186	ND		19	0.14
52663-68-0	PCB-187	140	J	19	0.18
74487-85-7	PCB-188	ND	U J	19	0.11
39635-31-9	PCB-189	2.5		1.9	0.20
41411-64-7	PCB-190	5.9	J	19	0.11
74472-50-7	PCB-191	ND	U J	19	0.11
74472-51-8	PCB-192	ND		19	0.11
35694-08-7	PCB-194	1.9	J J	19	0.14
52663-78-2	PCB-195	0.55	J q U J	19	0.13
42740-50-1	PCB-196	ND		19	0.24
33091-17-7	PCB-197	2.5	J J	19	0.16
STL01825	PCB-198/199	0.87	J	38	0.25
52663-73-7	PCB-200	ND	U J	19	0.19
40186-71-8	PCB-201	9.4	J J	19	0.17
2136-99-4	PCB-202	12	J	19	0.15
52663-76-0	PCB-203	2.9	J	19	0.23
74472-52-9	PCB-204	ND	U J	19	0.18
74472-53-0	PCB-205	0.23	J q U	19	0.17
40186-72-9	PCB-206	ND		19	0.78
52663-79-3	PCB-207	ND		19	0.45
52663-77-1	PCB-208	ND		19	0.42
2051-24-3	PCB-209	0.24	J q B	19	0.15
27323-18-8	Total Monochlorobiphenyls	1.4	J	190	0.28
25512-42-9	Total Dichlorobiphenyls	ND		190	12

 C8 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB04-061513
Lab Sample ID: 320-3015-31
Matrix: Tissue
Lab File ID: 25JN1312D8_64.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:28
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.44(g)
Date Analyzed: 06/28/2013 19:32
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	30	J q B	190	0.30
26914-33-0	Total Tetrachlorobiphenyls	210	B	190	0.26
25429-29-2	Total Pentachlorobiphenyls	1000	B	190	1.8
26601-64-9	Total Hexachlorobiphenyls	1800	B	190	1.5
28655-71-2	Total Heptachlorobiphenyls	470		J 190	0.14
55722-26-4	Total Octachlorobiphenyls	30	J q	J 190	0.18
53742-07-7	Total Nonachlorobiphenyls	ND		190	0.78

14408/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB05-061513 | Lab Sample ID: 320-3015-32

Matrix: Tissue | Lab File ID: 25JN1312D8_65.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:00

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.05(g) | Date Analyzed: 06/28/2013 20:45

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		20	0.21
2051-61-8	PCB-2	5.3	J	20	0.18
2051-62-9	PCB-3	ND		20	0.17
13029-08-8	PCB-4	ND		20	10
16605-91-7	PCB-5	ND		20	5.2
25569-80-6	PCB-6	ND		20	5.2
33284-50-3	PCB-7	ND		20	4.7
34883-43-7	PCB-8	ND		20	5.0
34883-39-1	PCB-9	ND		20	5.4
33146-45-1	PCB-10	ND		20	6.3
2050-67-1	PCB-11	ND		20	5.3
STL01797	PCB-12/13	ND		40	5.4
34883-41-5	PCB-14	ND		20	4.6
2050-68-2	PCB-15	ND		20	5.3
38444-78-9	PCB-16	1.7	J B	20	0.26
37680-66-3	PCB-17	0.69	J q B U	20	0.19
STL01798	PCB-18/30	2.7	J B	40	0.17
38444-73-4	PCB-19	ND		20	0.28
STL01799	PCB-20/28	9.4	J B	40	0.25
STL01800	PCB-21/33	3.0	J	40	0.23
38444-85-8	PCB-22	2.0	J	20	0.27
55720-44-0	PCB-23	ND		20	0.23
55702-45-9	PCB-24	ND		20	0.15
55712-37-3	PCB-25	0.48	J q U	20	0.23
STL01801	PCB-26/29	1.2	J	40	0.23
38444-76-7	PCB-27	0.19	J q U	20	0.15
16606-02-3	PCB-31	6.7	J B	20	0.23
38444-77-8	PCB-32	0.39	J q B U	20	0.13
37680-68-5	PCB-34	ND		20	0.23
37680-69-6	PCB-35	ND		20	0.28
38444-87-0	PCB-36	ND		20	0.24
38444-90-5	PCB-37	1.8	J	20	0.26
53555-66-1	PCB-38	ND		20	0.27
38444-88-1	PCB-39	ND		20	0.25

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB05-061513
Lab Sample ID: 320-3015-32
Matrix: Tissue
Lab File ID: 25JN1312D8_65.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:00
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.05(g)
Date Analyzed: 06/28/2013 20:45
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	4.0	J	40	0.099
52663-59-9	PCB-41	ND		20	0.12
36559-22-5	PCB-42	2.7	J B	20	0.10
70362-46-8	PCB-43	ND		20	0.11
STL01803	PCB-44/47/65	24	J B	60	0.093
70362-45-7	PCB-45	ND		20	0.10
41464-47-5	PCB-46	ND		20	0.11
70362-47-9	PCB-48	1.7	J	20	0.099
STL01805	PCB-49/69	11	J B	40	0.081
STL01806	PCB-50/53	1.2	J B	40	0.089
68194-04-7	PCB-51	ND		20	0.092
35693-99-3	PCB-52	65	B	20	0.098
15968-05-5	PCB-54	ND		20	0.10
74338-24-2	PCB-55	ND		20	0.51
41464-43-1	PCB-56	6.1	J	20	0.57
70424-67-8	PCB-57	3.3	J	20	0.51
41464-49-7	PCB-58	ND		20	0.51
STL01807	PCB-59/62/75	1.0	J	60	0.073
33025-41-1	PCB-60	7.2	J	20	0.54
STL01808	PCB-61/70/74/76	100	B	80	0.51
74472-34-7	PCB-63	1.4	J	20	0.47
52663-58-8	PCB-64	4.3	J B	20	0.069
32598-10-0	PCB-66	39	B	20	0.57
73575-53-8	PCB-67	ND		20	0.48
73575-52-7	PCB-68	ND		20	0.45
41464-42-0	PCB-72	ND		20	0.49
74338-23-1	PCB-73	ND		20	0.078
32598-13-3	PCB-77	1.8	J	2.0	0.61
70362-49-1	PCB-78	0.88	J	20	0.58
41464-48-6	PCB-79	4.0	J	20	0.51
33284-52-5	PCB-80	ND		20	0.48
70362-50-4	PCB-81	ND		2.0	0.61
52663-62-4	PCB-82	17	J	20	3.7
60145-20-2	PCB-83	6.7	J	20	3.6

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: KB05-061513
Lab Sample ID: 320-3015-32
Matrix: Tissue
Lab File ID: 25JN1312D8_65.d
Analysis Method: 1668A
Date Collected: 06/15/2013 21:00
Extract. Method: HRMS-Sox
Date Extracted: 06/25/2013 10:03
Sample wt/vol: 10.05(g)
Date Analyzed: 06/28/2013 20:45
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19567
Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	28		20	3.2
STL01810	PCB-85/116/117	45	J	60	2.5
STL01811	PCB-86/87/97/108/119/125	120	B	120	2.5
STL01812	PCB-88/91	11	J	40	2.6
73575-57-2	PCB-89	ND		20	3.0
STL01813	PCB-90/101/113	260	B	60	2.5
52663-61-3	PCB-92	45		20	2.8
STL01814	PCB-93/100	ND		40	2.6
73575-55-0	PCB-94	ND		20	2.7
38379-99-6	PCB-95	110	B	20	2.6
73575-54-9	PCB-96	0.43	J	20	0.051
STL01843	PCB-98/102	ND		40	2.5
38380-01-7	PCB-99	160		20	2.7
60145-21-3	PCB-103	ND		20	2.4
56558-16-8	PCB-104	ND		20	0.062
32598-14-4	PCB-105	110	G	2.6	2.6
70424-69-0	PCB-106	ND		20	2.6
STL01815	PCB-107/124	9.9	J	40	2.4
74472-35-8	PCB-109	17	J	20	2.3
STL01826	PCB-110/115	200	B	40	2.2
39635-32-0	PCB-111	ND		20	2.1
74472-36-9	PCB-112	ND		20	2.0
74472-37-0	PCB-114	4.9	G	2.5	2.5
31508-00-6	PCB-118	350	G B	2.5	2.5
68194-12-7	PCB-120	ND		20	2.2
56558-18-0	PCB-121	ND		20	2.0
76842-07-4	PCB-122	ND		20	2.8
65510-44-3	PCB-123	4.1	G	2.6	2.6
57465-28-8	PCB-126	ND	G	2.8	2.8
39635-33-1	PCB-127	ND		20	2.6
STL01816	PCB-128/166	79		40	2.1
STL01817	PCB-129/138/163	670	B	60	2.3
52663-66-8	PCB-130	31		20	2.9
61798-70-7	PCB-131	4.5	J	20	2.8

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB05-061513 | Lab Sample ID: 320-3015-32

Matrix: Tissue | Lab File ID: 25JN1312D8_65.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:00

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.05(g) | Date Analyzed: 06/28/2013 20:45

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	76		20	2.6
35694-04-3	PCB-133	9.6	J	20	2.6
STL01818	PCB-134/143	16	J	40	2.6
STL01819	PCB-135/151	120		40	2.2
38411-22-2	PCB-136	26		20	1.5
35694-06-5	PCB-137	13	J	20	2.5
STL01820	PCB-139/140	9.6	J	40	2.2
52712-04-6	PCB-141	6.0	J	20	2.5
41411-61-4	PCB-142	ND		20	2.5
68194-14-9	PCB-144	16	J	20	2.2
74472-40-5	PCB-145	ND		20	1.5
51908-16-8	PCB-146	110		20	2.5
STL01821	PCB-147/149	270	B	40	2.2
74472-41-6	PCB-148	ND		20	2.1
68194-08-1	PCB-150	ND		20	1.4
68194-09-2	PCB-152	ND		20	1.4
STL01822	PCB-153/168	700	B	40	1.9
60145-22-4	PCB-154	5.5	J	20	1.9
33979-03-2	PCB-155	ND		20	1.5
STL01792	PCB-156/157	48		4.0	0.39
74472-42-7	PCB-158	55		20	1.7
39635-35-3	PCB-159	ND		20	0.33
41411-62-5	PCB-160	ND		20	2.0
74472-43-8	PCB-161	ND		20	1.8
39635-34-2	PCB-162	3.8	J	20	0.32
74472-45-0	PCB-164	6.9	J	20	1.8
74472-46-1	PCB-165	ND		20	2.1
52663-72-6	PCB-167	27		2.0	0.29
32774-16-6	PCB-169	ND		2.0	0.40
35065-30-6	PCB-170	11	J J	20	0.16
STL01823	PCB-171/173	33	J	40	0.16
52663-74-8	PCB-172	1.5	J	20	0.16
38411-25-5	PCB-174	ND	UJ	20	0.16
40186-70-7	PCB-175	5.5	J J	20	0.19

 0527/36/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB05-061513 | Lab Sample ID: 320-3015-32

Matrix: Tissue | Lab File ID: 25JN1312D8_65.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:00

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.05(g) | Date Analyzed: 06/28/2013 20:45

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	11	J J	20	0.14
52663-70-4	PCB-177	60		20	0.16
52663-67-9	PCB-178	34		20	0.20
52663-64-6	PCB-179	42		20	0.15
STL01824	PCB-180/193	77		40	0.13
74472-47-2	PCB-181	ND	U	20	0.13
60145-23-5	PCB-182	ND		20	0.18
52663-69-1	PCB-183	74	J	20	0.12
74472-48-3	PCB-184	0.99	J	20	0.15
52712-05-7	PCB-185	ND	U	20	0.14
74472-49-4	PCB-186	ND		20	0.14
52663-68-0	PCB-187	150	J	20	0.18
74487-85-7	PCB-188	ND	U	20	0.11
39635-31-9	PCB-189	3.1	q	2.0	0.22
41411-64-7	PCB-190	8.0	J J	20	0.12
74472-50-7	PCB-191	1.5	J	20	0.11
74472-51-8	PCB-192	ND	U	20	0.12
35694-08-7	PCB-194	2.0	J J	20	0.17
52663-78-2	PCB-195	0.52	J	20	0.16
42740-50-1	PCB-196	ND	U	20	0.21
33091-17-7	PCB-197	3.3	J J	20	0.14
STL01825	PCB-198/199	0.74	J q U	40	0.21
52663-73-7	PCB-200	ND		20	0.16
40186-71-8	PCB-201	12	J J	20	0.14
2136-99-4	PCB-202	15	J	20	0.11
52663-76-0	PCB-203	5.4	J	20	0.19
74472-52-9	PCB-204	ND	U	20	0.15
74472-53-0	PCB-205	0.38	J q U	20	0.23
40186-72-9	PCB-206	ND		20	1.2
52663-79-3	PCB-207	ND	U	20	0.63
52663-77-1	PCB-208	ND		20	0.58
2051-24-3	PCB-209	0.36	J q B U	20	0.25
27323-18-8	Total Monochlorobiphenyls	5.3	J	200	0.19
25512-42-9	Total Dichlorobiphenyls	ND		200	10

07/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: KB05-061513 | Lab Sample ID: 320-3015-32

Matrix: Tissue | Lab File ID: 25JN1312D8_65.d

Analysis Method: 1668A | Date Collected: 06/15/2013 21:00

Extract. Method: HRMS-Sox | Date Extracted: 06/25/2013 10:03

Sample wt/vol: 10.05(g) | Date Analyzed: 06/28/2013 20:45

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19567 | Units: pg/g

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	30	J q B	200	0.23
26914-33-0	Total Tetrachlorobiphenyls	280	B	200	0.31
25429-29-2	Total Pentachlorobiphenyls	1500	B	200	2.4
26601-64-9	Total Hexachlorobiphenyls	2300	B	200	1.9
28655-71-2	Total Heptachlorobiphenyls	520	q	J 200	0.15
55722-26-4	Total Octachlorobiphenyls	39	J q	J 200	0.17
53742-07-7	Total Nonachlorobiphenyls	ND		UJ 200	1.2

MW 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: FISH HOMOGINATION BLANK | Lab Sample ID: 320-3015-33

Matrix: Water | Lab File ID: 24JN1312D8_6.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 727.6(mL) | Date Analyzed: 06/24/2013 20:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		270	0.97
2051-61-8	PCB-2	ND		270	0.95
2051-62-9	PCB-3	ND		270	0.99
13029-08-8	PCB-4	ND		270	21
16605-91-7	PCB-5	ND		270	25
25569-80-6	PCB-6	ND		270	25
33284-50-3	PCB-7	ND		270	22
34883-43-7	PCB-8	ND		270	24
34883-39-1	PCB-9	ND		270	26
33146-45-1	PCB-10	ND		270	16
2050-67-1	PCB-11	ND		270	25
STL01797	PCB-12/13	ND		550	25
34883-41-5	PCB-14	ND		270	22
2050-68-2	PCB-15	ND		270	28
38444-78-9	PCB-16	1.7	J	270	1.3
37680-66-3	PCB-17	1.6	J	270	1.0
STL01798	PCB-18/30	2.7	J B U	550	0.85
38444-73-4	PCB-19	ND		270	1.2
STL01799	PCB-20/28	4.7	J B	550	0.79
STL01800	PCB-21/33	2.6	J	550	0.74
38444-85-8	PCB-22	1.7	J	270	0.85
55720-44-0	PCB-23	ND		270	0.73
55702-45-9	PCB-24	ND		270	0.76
55712-37-3	PCB-25	ND		270	0.74
STL01801	PCB-26/29	ND		550	0.75
38444-76-7	PCB-27	ND		270	0.75
16606-02-3	PCB-31	3.3	J B	270	0.73
38444-77-8	PCB-32	1.1	J	270	0.66
37680-68-5	PCB-34	ND		270	0.75
37680-69-6	PCB-35	ND		270	0.88
38444-87-0	PCB-36	ND		270	0.78
38444-90-5	PCB-37	ND		270	0.94
53555-66-1	PCB-38	ND		270	0.85
38444-88-1	PCB-39	ND		270	0.80

02/13/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: FISH HOMOGINATION BLANK
Lab Sample ID: 320-3015-33
Matrix: Water
Lab File ID: 24JN1312D8_6.d
Analysis Method: 1668A
Date Collected: 06/17/2013 00:00
Extract. Method: HRMS-Sep
Date Extracted: 06/21/2013 10:09
Sample wt/vol: 727.6(mL)
Date Analyzed: 06/24/2013 20:19
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19189
Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.84	J q U	550	0.49
52663-59-9	PCB-41	ND		270	0.60
36559-22-5	PCB-42	ND		270	0.51
70362-46-8	PCB-43	ND		270	0.52
STL01803	PCB-44/47/65	6.0	J B U	820	0.46
70362-45-7	PCB-45	ND		270	0.50
41464-47-5	PCB-46	ND		270	0.55
70362-47-9	PCB-48	ND		270	0.49
STL01805	PCB-49/69	1.2	J q B U	550	0.40
STL01806	PCB-50/53	ND		550	0.44
68194-04-7	PCB-51	ND		270	0.45
35693-99-3	PCB-52	3.9	J B	270	0.48
15968-05-5	PCB-54	ND		270	0.57
74338-24-2	PCB-55	ND		270	0.66
41464-43-1	PCB-56	ND		270	0.74
70424-67-8	PCB-57	ND		270	0.67
41464-49-7	PCB-58	ND		270	0.67
STL01807	PCB-59/62/75	ND		820	0.36
33025-41-1	PCB-60	ND		270	0.70
STL01808	PCB-61/70/74/76	3.2	J q B U	1100	0.66
74472-34-7	PCB-63	ND		270	0.62
52663-58-8	PCB-64	1.2	J B	270	0.34
32598-10-0	PCB-66	1.1	J q B U	270	0.75
73575-53-8	PCB-67	ND		270	0.62
73575-52-7	PCB-68	ND		270	0.59
41464-42-0	PCB-72	ND		270	0.64
74338-23-1	PCB-73	ND		270	0.38
32598-13-3	PCB-77	ND		27	0.87
70362-49-1	PCB-78	ND		270	0.75
41464-48-6	PCB-79	ND		270	0.66
33284-52-5	PCB-80	ND		270	0.63
70362-50-4	PCB-81	ND		27	0.87
52663-62-4	PCB-82	ND		270	1.7
60145-20-2	PCB-83	ND		270	1.7

02/13/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: FISH HOMOGINATION BLANK
Lab Sample ID: 320-3015-33
Matrix: Water
Lab File ID: 24JN1312D8_6.d
Analysis Method: 1668A
Date Collected: 06/17/2013 00:00
Extract. Method: HRMS-Sep
Date Extracted: 06/21/2013 10:09
Sample wt/vol: 727.6(mL)
Date Analyzed: 06/24/2013 20:19
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19189
Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	ND		270	1.4
STL01810	PCB-85/116/117	ND		820	1.1
STL01811	PCB-86/87/97/108/119/125	2.9	J	1600	1.1
STL01812	PCB-88/91	ND		550	1.2
73575-57-2	PCB-89	ND		270	1.4
STL01813	PCB-90/101/113	3.0	J	820	1.1
52663-61-3	PCB-92	ND		270	1.3
STL01814	PCB-93/100	ND		550	1.2
73575-55-0	PCB-94	ND		270	1.2
38379-99-6	PCB-95	2.7	J	270	1.2
73575-54-9	PCB-96	ND		270	0.67
STL01843	PCB-98/102	ND		550	1.1
38380-01-7	PCB-99	ND		270	1.5
60145-21-3	PCB-103	ND		270	1.1
56558-16-8	PCB-104	ND		270	0.67
32598-14-4	PCB-105	ND		27	1.3
70424-69-0	PCB-106	ND		270	1.2
STL01815	PCB-107/124	ND		550	1.1
74472-35-8	PCB-109	ND		270	1.0
STL01826	PCB-110/115	4.0	J	550	1.0
39635-32-0	PCB-111	ND		270	0.98
74472-36-9	PCB-112	ND		270	0.92
74472-37-0	PCB-114	ND		27	1.2
31508-00-6	PCB-118	3.8	J q U	27	1.2
68194-12-7	PCB-120	ND		270	1.0
56558-18-0	PCB-121	ND		270	0.89
76842-07-4	PCB-122	ND		270	1.3
65510-44-3	PCB-123	ND		27	1.2
57465-28-8	PCB-126	ND		27	1.3
39635-33-1	PCB-127	ND		270	1.2
STL01816	PCB-128/166	ND		550	1.1
STL01817	PCB-129/138/163	6.9	J B	820	1.2
52663-66-8	PCB-130	ND		270	1.5
61798-70-7	PCB-131	ND		270	1.4

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: FISH HOMOGINATION BLANK | Lab Sample ID: 320-3015-33

Matrix: Water | Lab File ID: 24JN1312D8_6.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 727.6(mL) | Date Analyzed: 06/24/2013 20:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	1.3	J q U	270	1.3
35694-04-3	PCB-133	ND		270	1.4
STL01818	PCB-134/143	ND		550	1.3
STL01819	PCB-135/151	ND		550	1.2
38411-22-2	PCB-136	ND		270	0.80
35694-06-5	PCB-137	ND		270	1.3
STL01820	PCB-139/140	ND		550	1.2
52712-04-6	PCB-141	ND		270	1.3
41411-61-4	PCB-142	ND		270	1.3
68194-14-9	PCB-144	ND		270	1.1
74472-40-5	PCB-145	ND		270	0.79
51908-16-8	PCB-146	ND		270	1.3
STL01821	PCB-147/149	3.4	J B	550	1.1
74472-41-6	PCB-148	ND		270	1.1
68194-08-1	PCB-150	ND		270	0.74
68194-09-2	PCB-152	ND		270	0.73
STL01822	PCB-153/168	3.7	J q B U	550	1.0
60145-22-4	PCB-154	ND		270	1.0
33979-03-2	PCB-155	ND		270	0.74
STL01792	PCB-156/157	ND		55	0.89
74472-42-7	PCB-158	ND		270	0.90
39635-35-3	PCB-159	ND		270	0.72
41411-62-5	PCB-160	ND		270	1.0
74472-43-8	PCB-161	ND		270	0.94
39635-34-2	PCB-162	ND		270	0.70
74472-45-0	PCB-164	ND		270	0.93
74472-46-1	PCB-165	ND		270	1.1
52663-72-6	PCB-167	ND		27	0.69
32774-16-6	PCB-169	ND		27	0.82
35065-30-6	PCB-170	1.6	J q U	270	0.94
STL01823	PCB-171/173	ND		550	0.90
52663-74-8	PCB-172	ND		270	0.90
38411-25-5	PCB-174	ND		270	1.4
40186-70-7	PCB-175	ND		270	1.3

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: FISH HOMOGINATION BLANK | Lab Sample ID: 320-3015-33

Matrix: Water | Lab File ID: 24JN1312D8_6.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 727.6(mL) | Date Analyzed: 06/24/2013 20:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	ND		270	0.92
52663-70-4	PCB-177	ND		270	0.91
52663-67-9	PCB-178	ND		270	1.3
52663-64-6	PCB-179	ND		270	1.0
STL01824	PCB-180/193	1.9	J	550	0.72
74472-47-2	PCB-181	ND		270	0.77
60145-23-5	PCB-182	ND		270	1.2
52663-69-1	PCB-183	ND		270	0.68
74472-48-3	PCB-184	ND		270	1.0
52712-05-7	PCB-185	ND		270	0.84
74472-49-4	PCB-186	ND		270	0.96
52663-68-0	PCB-187	1.6	J q U	270	1.2
74487-85-7	PCB-188	ND		270	0.87
39635-31-9	PCB-189	ND		27	1.5
41411-64-7	PCB-190	ND		270	0.67
74472-50-7	PCB-191	ND		270	0.65
74472-51-8	PCB-192	ND		270	0.67
35694-08-7	PCB-194	ND		270	1.2
52663-78-2	PCB-195	ND		270	1.1
42740-50-1	PCB-196	ND		270	1.3
33091-17-7	PCB-197	ND		270	0.86
STL01825	PCB-198/199	ND		550	1.3
52663-73-7	PCB-200	ND		270	0.98
40186-71-8	PCB-201	ND		270	0.90
2136-99-4	PCB-202	ND		270	0.94
52663-76-0	PCB-203	ND		270	1.2
74472-52-9	PCB-204	ND		270	0.94
74472-53-0	PCB-205	ND		270	1.0
40186-72-9	PCB-206	ND		270	2.0
52663-79-3	PCB-207	ND		270	1.4
52663-77-1	PCB-208	ND		270	1.4
2051-24-3	PCB-209	3.7	J	270	1.4
27323-18-8	Total Monochlorobiphenyls	ND		2700	0.99
25512-42-9	Total Dichlorobiphenyls	ND		2700	28

CS 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: FISH HOMOGINATION BLANK | Lab Sample ID: 320-3015-33

Matrix: Water | Lab File ID: 24JN1312D8_6.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 727.6(mL) | Date Analyzed: 06/24/2013 20:19

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	19	J B	2700	0.84
26914-33-0	Total Tetrachlorobiphenyls	17	J q B	2700	0.58
25429-29-2	Total Pentachlorobiphenyls	16	J q	2700	1.2
26601-64-9	Total Hexachlorobiphenyls	15	J q B	2700	1.0
28655-71-2	Total Heptachlorobiphenyls	5.2	J q B	2700	0.97
55722-26-4	Total Octachlorobiphenyls	ND		2700	1.3
53742-07-7	Total Nonachlorobiphenyls	ND		2700	2.0

u

MU 08/07/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: MUSSEL HOMOGINATION BLANK | Lab Sample ID: 320-3015-34

Matrix: Water | Lab File ID: 24JN1312D8_5.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 684.8(mL) | Date Analyzed: 06/24/2013 19:06

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
2051-60-7	PCB-1	ND		290	0.91
2051-61-8	PCB-2	ND		290	0.91
2051-62-9	PCB-3	ND		290	0.98
13029-08-8	PCB-4	ND		290	28
16605-91-7	PCB-5	ND		290	31
25569-80-6	PCB-6	ND		290	31
33284-50-3	PCB-7	ND		290	28
34883-43-7	PCB-8	ND		290	30
34883-39-1	PCB-9	ND		290	32
33146-45-1	PCB-10	ND		290	21
2050-67-1	PCB-11	ND		290	32
STL01797	PCB-12/13	ND		580	32
34883-41-5	PCB-14	ND		290	27
2050-68-2	PCB-15	ND		290	36
38444-78-9	PCB-16	ND		290	2.0
37680-66-3	PCB-17	ND		290	1.5
STL01798	PCB-18/30	3.3	J B U	580	1.3
38444-73-4	PCB-19	ND		290	1.9
STL01799	PCB-20/28	3.6	J q B U	580	1.4
STL01800	PCB-21/33	2.4	J	580	1.3
38444-85-8	PCB-22	ND		290	1.5
55720-44-0	PCB-23	ND		290	1.3
55702-45-9	PCB-24	ND		290	1.2
55712-37-3	PCB-25	ND		290	1.3
STL01801	PCB-26/29	ND		580	1.3
38444-76-7	PCB-27	ND		290	1.1
16606-02-3	PCB-31	4.5	J B	290	1.3
38444-77-8	PCB-32	ND		290	1.0
37680-68-5	PCB-34	ND		290	1.3
37680-69-6	PCB-35	ND		290	1.6
38444-87-0	PCB-36	ND		290	1.4
38444-90-5	PCB-37	ND		290	1.7
53555-66-1	PCB-38	ND		290	1.5
38444-88-1	PCB-39	ND		290	1.4

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: MUSSEL HOMOGINATION BLANK | Lab Sample ID: 320-3015-34

Matrix: Water | Lab File ID: 24JN1312D8_5.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 684.8(mL) | Date Analyzed: 06/24/2013 19:06

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
STL01802	PCB-40/71	0.78	J q U	580	0.64
52663-59-9	PCB-41	ND		290	0.79
36559-22-5	PCB-42	ND		290	0.67
70362-46-8	PCB-43	ND		290	0.68
STL01803	PCB-44/47/65	6.3	J B U	880	0.60
70362-45-7	PCB-45	ND		290	0.66
41464-47-5	PCB-46	ND		290	0.73
70362-47-9	PCB-48	ND		290	0.64
STL01805	PCB-49/69	1.0	J q B U	580	0.53
STL01806	PCB-50/53	ND		580	0.58
68194-04-7	PCB-51	ND		290	0.60
35693-99-3	PCB-52	4.0	J B	290	0.64
15968-05-5	PCB-54	ND		290	0.75
74338-24-2	PCB-55	ND		290	0.86
41464-43-1	PCB-56	ND		290	0.97
70424-67-8	PCB-57	ND		290	0.88
41464-49-7	PCB-58	ND		290	0.88
STL01807	PCB-59/62/75	ND		880	0.47
33025-41-1	PCB-60	ND		290	0.92
STL01808	PCB-61/70/74/76	5.0	J B	1200	0.86
74472-34-7	PCB-63	ND		290	0.81
52663-58-8	PCB-64	ND		290	0.45
32598-10-0	PCB-66	2.1	J q B U	290	0.98
73575-53-8	PCB-67	ND		290	0.81
73575-52-7	PCB-68	ND		290	0.77
41464-42-0	PCB-72	ND		290	0.84
74338-23-1	PCB-73	ND		290	0.50
32598-13-3	PCB-77	ND		29	1.1
70362-49-1	PCB-78	ND		290	0.98
41464-48-6	PCB-79	ND		290	0.86
33284-52-5	PCB-80	ND		290	0.82
70362-50-4	PCB-81	ND		29	1.1
52663-62-4	PCB-82	ND		290	2.3
60145-20-2	PCB-83	ND		290	2.3

CL 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: MUSSEL HOMOGINATION BLANK
Lab Sample ID: 320-3015-34
Matrix: Water
Lab File ID: 24JN1312D8_5.d
Analysis Method: 1668A
Date Collected: 06/17/2013 00:00
Extract. Method: HRMS-Sep
Date Extracted: 06/21/2013 10:09
Sample wt/vol: 684.8(mL)
Date Analyzed: 06/24/2013 19:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19189
Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-60-2	PCB-84	ND		290	2.0
STL01810	PCB-85/116/117	ND		880	1.6
STL01811	PCB-86/87/97/108/119/125	3.2	J q U	1800	1.6
STL01812	PCB-88/91	ND		580	1.7
73575-57-2	PCB-89	ND		290	1.9
STL01813	PCB-90/101/113	3.5	J q U	880	1.6
52663-61-3	PCB-92	ND		290	1.8
STL01814	PCB-93/100	ND		580	1.7
73575-55-0	PCB-94	ND		290	1.7
38379-99-6	PCB-95	ND		290	1.7
73575-54-9	PCB-96	ND		290	0.92
STL01843	PCB-98/102	ND		580	1.6
38380-01-7	PCB-99	ND		290	1.7
60145-21-3	PCB-103	ND		290	1.5
56558-16-8	PCB-104	ND		290	0.93
32598-14-4	PCB-105	ND		29	1.8
70424-69-0	PCB-106	ND		290	1.6
STL01815	PCB-107/124	ND		580	1.5
74472-35-8	PCB-109	ND		290	1.4
STL01826	PCB-110/115	5.6	J	580	1.4
39635-32-0	PCB-111	ND		290	1.4
74472-36-9	PCB-112	ND		290	1.3
74472-37-0	PCB-114	ND		29	1.7
31508-00-6	PCB-118	3.4	J q U	29	1.7
68194-12-7	PCB-120	ND		290	1.4
56558-18-0	PCB-121	ND		290	1.3
76842-07-4	PCB-122	ND		290	1.8
65510-44-3	PCB-123	ND		29	1.7
57465-28-8	PCB-126	ND		29	1.9
39635-33-1	PCB-127	ND		290	1.6
STL01816	PCB-128/166	ND		580	1.4
STL01817	PCB-129/138/163	5.0	J B U	880	1.5
52663-66-8	PCB-130	ND		290	1.9
61798-70-7	PCB-131	ND		290	1.8

C27/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 320-3015-1

SDG No.:

Client Sample ID: MUSSEL HOMOGINATION BLANK | Lab Sample ID: 320-3015-34

Matrix: Water | Lab File ID: 24JN1312D8_5.d

Analysis Method: 1668A | Date Collected: 06/17/2013 00:00

Extract. Method: HRMS-Sep | Date Extracted: 06/21/2013 10:09

Sample wt/vol: 684.8(mL) | Date Analyzed: 06/24/2013 19:06

Con. Extract Vol.: 20(uL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 19189 | Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
38380-05-1	PCB-132	ND		290	1.7
35694-04-3	PCB-133	ND		290	1.8
STL01818	PCB-134/143	ND		580	1.7
STL01819	PCB-135/151	ND		580	1.5
38411-22-2	PCB-136	ND		290	1.0
35694-06-5	PCB-137	ND		290	1.7
STL01820	PCB-139/140	ND		580	1.5
52712-04-6	PCB-141	ND		290	1.7
41411-61-4	PCB-142	ND		290	1.7
68194-14-9	PCB-144	ND		290	1.5
74472-40-5	PCB-145	ND		290	1.0
51908-16-8	PCB-146	ND		290	1.6
STL01821	PCB-147/149	3.5	J q B U	580	1.5
74472-41-6	PCB-148	ND		290	1.4
68194-08-1	PCB-150	ND		290	0.95
68194-09-2	PCB-152	ND		290	0.94
STL01822	PCB-153/168	3.6	J q B U	580	1.3
60145-22-4	PCB-154	ND		290	1.3
33979-03-2	PCB-155	ND		290	0.98
STL01792	PCB-156/157	ND		58	1.2
74472-42-7	PCB-158	ND		290	1.2
39635-35-3	PCB-159	ND		290	0.99
41411-62-5	PCB-160	ND		290	1.4
74472-43-8	PCB-161	ND		290	1.2
39635-34-2	PCB-162	ND		290	0.95
74472-45-0	PCB-164	ND		290	1.2
74472-46-1	PCB-165	ND		290	1.4
52663-72-6	PCB-167	ND		29	0.94
32774-16-6	PCB-169	ND		29	1.1
35065-30-6	PCB-170	ND		290	1.1
STL01823	PCB-171/173	ND		580	1.0
52663-74-8	PCB-172	ND		290	1.0
38411-25-5	PCB-174	ND		290	2.2
40186-70-7	PCB-175	ND		290	2.0

02713013

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: MUSSEL HOMOGINATION BLANK
Lab Sample ID: 320-3015-34
Matrix: Water
Lab File ID: 24JN1312D8_5.d
Analysis Method: 1668A
Date Collected: 06/17/2013 00:00
Extract. Method: HRMS-Sep
Date Extracted: 06/21/2013 10:09
Sample wt/vol: 684.8(mL)
Date Analyzed: 06/24/2013 19:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19189
Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
52663-65-7	PCB-176	ND		290	1.4
52663-70-4	PCB-177	ND		290	1.1
52663-67-9	PCB-178	ND		290	2.0
52663-64-6	PCB-179	ND		290	1.5
STL01824	PCB-180/193	ND		580	1.7
74472-47-2	PCB-181	ND		290	0.89
60145-23-5	PCB-182	ND		290	1.8
52663-69-1	PCB-183	ND		290	0.79
74472-48-3	PCB-184	ND		290	1.5
52712-05-7	PCB-185	ND		290	0.97
74472-49-4	PCB-186	ND		290	1.4
52663-68-0	PCB-187	ND		290	1.9
74487-85-7	PCB-188	ND		290	1.4
39635-31-9	PCB-189	ND		29	1.7
41411-64-7	PCB-190	ND		290	0.78
74472-50-7	PCB-191	ND		290	0.75
74472-51-8	PCB-192	ND		290	0.78
35694-08-7	PCB-194	ND		290	1.2
52663-78-2	PCB-195	ND		290	1.1
42740-50-1	PCB-196	ND		290	1.7
33091-17-7	PCB-197	ND		290	1.2
STL01825	PCB-198/199	ND		580	1.8
52663-73-7	PCB-200	ND		290	1.3
40186-71-8	PCB-201	ND		290	1.2
2136-99-4	PCB-202	ND		290	1.4
52663-76-0	PCB-203	ND		290	1.6
74472-52-9	PCB-204	ND		290	1.3
74472-53-0	PCB-205	ND		290	1.0
40186-72-9	PCB-206	ND		290	2.4
52663-79-3	PCB-207	ND		290	1.7
52663-77-1	PCB-208	ND		290	1.8
2051-24-3	PCB-209	3.8	J	290	1.6
27323-18-8	Total Monochlorobiphenyls	ND		2900	0.98
25512-42-9	Total Dichlorobiphenyls	ND		2900	36

CR 7/30/13

FORM I
DIOXIN ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento
Job No.: 320-3015-1
SDG No.:
Client Sample ID: MUSSEL HOMOGINATION BLANK
Lab Sample ID: 320-3015-34
Matrix: Water
Lab File ID: 24JN1312D8_5.d
Analysis Method: 1668A
Date Collected: 06/17/2013 00:00
Extract. Method: HRMS-Sep
Date Extracted: 06/21/2013 10:09
Sample wt/vol: 684.8(mL)
Date Analyzed: 06/24/2013 19:06
Con. Extract Vol.: 20(uL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 19189
Units: pg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	EDL
25323-68-6	Total Trichlorobiphenyls	14	J q B	u 2900	1.4
26914-33-0	Total Tetrachlorobiphenyls	19	J q B	u 2900	0.76
25429-29-2	Total Pentachlorobiphenyls	16	J q	2900	1.6
26601-64-9	Total Hexachlorobiphenyls	12	J q B	2900	1.4
28655-71-2	Total Heptachlorobiphenyls	ND		2900	2.2
55722-26-4	Total Octachlorobiphenyls	ND		2900	1.8
53742-07-7	Total Nonachlorobiphenyls	ND		2900	2.4

MU 8/07/13

Attachment 1.07

Adak PCB Tissue Data Summary 1999 - 2013

Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected from Bay of Islands, Kuluk Bay, and Sweeper Cove, 1999 - 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes	Unit (wet weight)
Bay of Islands							
Blue mussel	227686	ADAK98	8/1/1999 12:00	57	14	0.434	µg/kg
	227687	ADAK99	8/1/1999 12:00	57	11	0.249	µg/kg
	227688	ADAK100	8/1/1999 12:00	57	11	0.32	µg/kg
	227690	ADAK101	8/1/1999 12:00	57	3	0.072	µg/kg
					1999 Mean Value	0.269	µg/kg
	227727	BOIM02	7/1/2000 12:00	58	5	0.0908	µg/kg
	227728	BOIM03	7/1/2000 12:00	58	8	0.182	µg/kg
	227729	BOIM04	7/1/2000 12:00	58	4	0.125	µg/kg
	227736	BOIM01	7/1/2000 12:00	58	6	1.98	µg/kg
					2000 Mean Value	0.594	µg/kg
	227771	BI01M1	6/13/2001 12:00	58	2	0.04	µg/kg
	227773	BI01M3	6/13/2001 12:00	58	0	0.01[a]	µg/kg
	227772	BI01M2	6/28/2001 12:00	58	1	0.023	µg/kg
					2001 Mean Value	0.024	µg/kg
	227812	BI02M1	6/14/2002 12:00	58	1	0.0187	µg/kg
	227813	BI02M2	6/14/2002 12:00	58	1	0.0229	µg/kg
	227814	BI02M3	6/14/2002 12:00	58	2	0.0584	µg/kg
	227815	BI02M4	6/14/2002 12:00	58	2	0.0399	µg/kg
					2002 Mean Value	0.035	µg/kg
	63044	63044	8/1/2003 3:30	170	15	0.133	µg/kg
	63041	63041	8/1/2003 4:45	170	20	0.198	µg/kg
	63043	63043	8/1/2003 5:45	170	21	0.268	µg/kg
	63045	63045	8/1/2003 7:00	170	18	0.207	µg/kg
	63042	63042	8/1/2003 8:15	170	14	0.108	µg/kg
					2003 Mean Value	0.183	µg/kg
	BI101-061313	BI-101	6/13/2013	168	59	0.23	µg/kg
	BI102-061313	BI-102	6/13/2013	168	47	0.176	µg/kg
	BI103-061313	BI-103	6/13/2013	168	59	0.193	µg/kg
	BI104-061313	BI-104	6/13/2013	168	52	0.134	µg/kg
	BI105-061313	BI-105	6/13/2013	168	55	0.142	µg/kg
					2013 Mean Value	0.175	µg/kg
Rock sole	227819	BI-04	7/1/2000 12:00	56	16	1.14	µg/kg
	227823	BI-08	7/1/2000 12:00	56	20	1.05	µg/kg
					2000 Mean Value	1.1	µg/kg
	63068	63068	8/2/2003 1:40	170	24	0.313	µg/kg
	63069	63069	8/2/2003 1:41	170	28	0.352	µg/kg
	63070	63070	8/2/2003 1:42	170	27	0.314	µg/kg
	63071	63071	8/2/2003 1:43	170	27	0.343	µg/kg
	63072	63072	8/2/2003 1:44	170	21	0.279	µg/kg
					2003 Mean Value	0.32	µg/kg
	BI201-061413	BI201-061413	6/14/2013	168	62	0.169	µg/kg
	BI202-061413	BI202-061413	6/14/2013	168	60	0.172	µg/kg
	BI203-061413	BI203-061413	6/14/2013	168	63	0.167	µg/kg
	BI204-061413	BI204-061413	6/14/2013	168	78	0.32	µg/kg
	BI205-061413	BI205-061413	6/14/2013	168	61	0.235	µg/kg
					2013 Mean Value	0.213	µg/kg
Kuluk Bay							
Blue mussel	227645	2	8/1/1999 12:00	58	43	5.93	µg/kg
	227646	3	8/1/1999 12:00	58	32	2.09	µg/kg
	227647	4	8/1/1999 12:00	58	33	2.27	µg/kg
	227648	5	8/1/1999 12:00	58	34	2.06	µg/kg
	227649	6	8/1/1999 12:00	58	24	0.752	µg/kg
	227650	7	8/1/1999 12:00	58	17	0.553	µg/kg
	227666	23	8/1/1999 12:00	58	21	1.48	µg/kg
	227667	24	8/1/1999 12:00	58	39	7.42	µg/kg
	227689	1	8/1/1999 12:00	57	44	14.1	µg/kg
					1999 Mean Value	4.07	µg/kg

Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected from Bay of Islands, Kuluk Bay, and Sweeper Cove, 1999 - 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes	Unit (wet weight)
	227693	3	7/1/2000 12:00	58	37	3.68	µg/kg
	227694	4	7/1/2000 12:00	58	39	4.3	µg/kg
	227695	5	7/1/2000 12:00	58	30	1.3	µg/kg
	227696	6	7/1/2000 12:00	58	24	0.79	µg/kg
	227697	7	7/1/2000 12:00	58	18	0.407	µg/kg
	227700	23	7/1/2000 12:00	58	26	1.67	µg/kg
	227713	1	7/1/2000 12:00	58	46	11.7	µg/kg
	227714	2	7/1/2000 12:00	58	45	12.1	µg/kg
	227717	24	7/1/2000 12:00	58	29	2.82	µg/kg
					2000 Mean Value	4.31	µg/kg
	227761	23	6/2/2001 12:00	58	14	2.27	µg/kg
	227762	24	6/2/2001 12:00	58	24	9.48	µg/kg
	227739	1	6/3/2001 12:00	58	45	45.4	µg/kg
	227741	3	6/3/2001 12:00	58	32	11.3	µg/kg
	227744	6	6/3/2001 12:00	58	13	1.56	µg/kg
	227740	2	6/4/2001 12:00	58	41	50.7	µg/kg
	227742	4	6/4/2001 12:00	58	37	17	µg/kg
	227743	5	6/4/2001 12:00	58	37	10	µg/kg
	227745	7	6/4/2001 12:00	58	16	0.99	µg/kg
					2001 Mean Value	16.5	µg/kg
	227780	2	6/11/2002 12:00	58	36	16.8	µg/kg
	227781	3	6/11/2002 12:00	58	22	4.4	µg/kg
	227782	4	6/11/2002 12:00	58	31	7.69	µg/kg
	227783	5	6/26/2002 12:00	58	30	4.59	µg/kg
	227784	6	6/26/2002 12:00	58	23	1.31	µg/kg
	227785	7	6/26/2002 12:00	58	24	1.27	µg/kg
	227801	23	6/26/2002 12:00	58	17	1.69	µg/kg
	227802	24	6/26/2002 12:00	58	22	4.81	µg/kg
	227779	1	8/28/2002 12:00	58	41	30.4	µg/kg
					2002 Mean Value	8.1	µg/kg
	63054	5	8/4/2003 1:30	168	80	9.76	µg/kg
	63055	1	8/4/2003 4:57	170	92	21	µg/kg
	63056	2	8/4/2003 5:26	170	81	9.05	µg/kg
	63052	KB-101	8/4/2003 11:59	170	87	18.5	µg/kg
	63053	KB-102	8/4/2003 12:45	170	64	3.72	µg/kg
					2003 Mean Value	12.4	µg/kg
	230730	1	6/17/2005 12:28	168	112	57.1	µg/kg
	230731	2	6/17/2005 11:45	168	108	60.3	µg/kg
	230732	3	6/16/2005 15:50	168	96	13.9	µg/kg
	230733	4	6/16/2005 14:51	168	92	17.6	µg/kg
	230734	5	6/16/2005 14:00	168	81	10.9	µg/kg
					2005 Mean Value	32	µg/kg
	29086-007	KB01	6/10/2007 17:00	168	112	24.4	µg/kg
	29086-008	KBALT02	6/10/2007 17:00	168	114	28.6	µg/kg
	29086-009	KB03	6/10/2007 17:00	168	92	8.48	µg/kg
	29086-010	KB04	6/10/2007 17:00	168	85	6.7	µg/kg
	29086-011	KB05	6/10/2007 17:00	168	77	6.84	µg/kg
					2007 Mean Value	15.0	µg/kg
	KBALT02_062209	KBALT02	6/22/2009 16:20	194	84	24.4	µg/kg
	KB-001_062209	KB01	6/22/2009 16:35	194	93	37.8	µg/kg
	KB-003_062209	KB03	6/22/2009 17:35	195	41	8.85	µg/kg
	KB-004_062209	KB04	6/22/2009 17:40	195	72	14.0	µg/kg
	KB-005_062209	KB05	6/22/2009 18:15	195	32	5.62	µg/kg
					2009 Mean Value	18.1	µg/kg
	KB01_061811	KB01	6/18/2011 0:00	168	71	26.6	µg/kg
	KBALT02_061811	KBALT02	6/18/2011 0:00	168	67	34.5	µg/kg
	KBALT03_061811	KBALT03	6/18/2011 0:00	168	59	12.6	µg/kg
	KB04_061511	KB04	6/15/2011 0:00	168	55	9.88	µg/kg

Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected from Bay of Islands, Kuluk Bay, and Sweeper Cove, 1999 - 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes	Unit (wet weight)
	KB05_061811	KB05	6/18/2011 0:00	168	51	7.87	µg/kg
					2011 Mean Value	18.3	µg/kg
	KB01-061113	KB01	6/11/2013 0:00	168	97	17.1	µg/kg
	KBALT02-061513	KBALT02	6/15/2013 0:00	168	96	19.7	µg/kg
	KBALT03-061513	KBALT03	6/15/2013 0:00	168	83	4.78	µg/kg
	KB04-061513	KB04	6/15/2013 0:00	168	85	3.59	µg/kg
	KB05-061513	KB05	6/15/2013 0:00	168	87	4.66	µg/kg
					2013 Mean Value	9.97	µg/kg
Rock sole	227623	AD-20	7/29/1999 12:00	56	41	10.6	µg/kg
					1999 Mean Value	10.6	µg/kg
	227830	AD-01	7/1/2000 12:00	56	44	2.53	µg/kg
	227837	AD-08	7/1/2000 12:00	56	45	3.28	µg/kg
	227840	AD-11	7/1/2000 12:00	56	45	9.21	µg/kg
					2000 Mean Value	5.01	µg/kg
	227580	MSL01AK	8/29/2001 12:00	58	40	14.6	µg/kg
	227582	MSL01AZ	8/31/2001 12:00	58	12	0.928	µg/kg
					2001 Mean Value	7.75	µg/kg
	227608	MSL02AK	6/24/2002 12:00	58	29	8.4	µg/kg
	227610	MSL02AZ	6/24/2002 12:00	58	23	1.48	µg/kg
					2002 Mean Value	4.94	µg/kg
	63057	63057	7/30/2003 5:10	170	85	8.88	µg/kg
	63060	63060	7/30/2003 5:11	170	99	21	µg/kg
	63061	63061	7/30/2003 5:12	170	88	10.8	µg/kg
	63059	63059	7/30/2003 5:13	170	94	10.4	µg/kg
	63058	63058	7/30/2003 5:14	170	96	16.5	µg/kg
					2003 Mean Value	13.5	µg/kg
	230719	230719	6/14/2005 13:05	168	75	4.88	µg/kg
	230720	230720	6/14/2005 13:06	168	86	11	µg/kg
	230721	230721	6/14/2005 13:07	168	81	6.63	µg/kg
	230722	230722	6/14/2005 13:08	168	80	10.4	µg/kg
	230723	230723	6/14/2005 13:09	168	80	5.56	µg/kg
					2005 Mean Value	7.69	µg/kg
	29085-007	KB201	6/4/2007 9:58	168	93	15.5	µg/kg
	29085-008	KB202	6/4/2007 9:58	168	87	5.58	µg/kg
	29085-009	KB203	6/4/2007 9:58	168	83	4.59	µg/kg
	29085-010	KB204	6/4/2007 9:58	168	96	17.4	µg/kg
	29085-011	KB205	6/4/2007 9:58	168	93	17.5	µg/kg
					2007 Mean Value	12.1	µg/kg
	KB201_062609	KB-204	6/26/2009 16:50	195	33	4.86	µg/kg
	KB202_062609	KB-204	6/26/2009 17:20	195	48	12.8	µg/kg
	KB203_062609	KB-204	6/26/2009 17:40	195	26	3.99	µg/kg
	KB204_062609	KB-204	6/26/2009 17:55	195	42	7.83	µg/kg
	KB205_062609	KB-204	6/26/2009 18:20	195	20	2.53	µg/kg
					2009 Mean Value	6.40	µg/kg
	KB1_061411	KB1_061411	6/14/2011 0:00	168	81	2.51	µg/kg
	KB2_061411	KB2_061411	6/14/2011 0:00	168	67	15.2	µg/kg
	KB3_061411	KB3_061411	6/14/2011 0:00	168	95	35.3	µg/kg
	KB4_061411	KB4_061411	6/14/2011 0:00	168	48	3.73	µg/kg
	KB5_061411	KB5_061411	6/14/2011 0:00	168	89	7.84	µg/kg
					2011 Mean Value	12.9	µg/kg
	KB201-061213	KB201-061213	6/12/2013	168	82	1.36	µg/kg
	KB202-061213	KB202-061213	6/12/2013	168	75	1.33	µg/kg
	KB203-061213	KB203-061213	6/12/2013	168	83	1.91	µg/kg
	KB204-061213	KB204-061213	6/12/2013	168	87	2.61	µg/kg
	KB205-061213	KB205-061213	6/12/2013	168	87	1.47	µg/kg
					2013 Mean Value	1.73	µg/kg
Sweeper Cove							
Blue mussel	227668	25	8/1/1999 12:00	58	40	9.66	µg/kg

Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected from Bay of Islands, Kuluk Bay, and Sweeper Cove, 1999 - 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes	Unit (wet weight)
	227669	26	8/1/1999 12:00	58	46	35.7	µg/kg
	227670	27	8/1/1999 12:00	58	47	35.2	µg/kg
	227671	30	8/1/1999 12:00	58	51	33.7	µg/kg
	227672	31	8/1/1999 12:00	58	43	11.5	µg/kg
	227674	ADAK83	8/1/1999 12:00	58	51	89.9	µg/kg
	227675	29	8/1/1999 12:00	58	47	35.1	µg/kg
	227676	28	8/1/1999 12:00	58	50	97	µg/kg
					1999 Mean Value	43.5	µg/kg
	227715	25	7/1/2000 12:00	57	35	5.22	µg/kg
	227716	31	7/1/2000 12:00	58	44	15.4	µg/kg
	227718	27	7/1/2000 12:00	58	36	8.76	µg/kg
	227719	28	7/1/2000 12:00	58	47	345	µg/kg
	227720	29	7/1/2000 12:00	58	46	26.4	µg/kg
	227721	30	7/1/2000 12:00	58	44	14.4	µg/kg
	227734	26	7/1/2000 12:00	58	44	10.4	µg/kg
					2000 Mean Value	60.9	µg/kg
	227763	25	6/1/2001 12:00	58	24	7.19	µg/kg
	227764	26	6/1/2001 12:00	58	28	12.7	µg/kg
	227765	27	6/1/2001 12:00	58	31	15.9	µg/kg
	227766	28	6/1/2001 12:00	58	34	57.7	µg/kg
	227767	29	6/1/2001 12:00	58	35	26.8	µg/kg
	227768	30	6/1/2001 12:00	58	36	28.5	µg/kg
	227769	31	6/1/2001 12:00	58	32	22.3	µg/kg
					2001 Mean Value	24.4	µg/kg
	227806	28	6/11/2002 12:00	58	32	98	µg/kg
	227807	29	6/11/2002 12:00	58	32	23.7	µg/kg
	227808	30	6/11/2002 12:00	58	32	14.2	µg/kg
	227809	31	6/11/2002 12:00	58	27	10.1	µg/kg
	227803	25	6/26/2002 12:00	58	24	5.5	µg/kg
	227804	26	6/26/2002 12:00	58	24	9.02	µg/kg
	227805	27	6/26/2002 12:00	58	30	19.2	µg/kg
					2002 Mean Value	25.7	µg/kg
	63046	31	8/4/2003 10:05	170	99	39.3	µg/kg
	63047	SW-102	8/4/2003 10:15	170	97	45.5	µg/kg
	63051	SW-102	8/4/2003 10:15	170	98	38.4 [b]	µg/kg
	63048	SW-103	8/4/2003 10:20	170	91	22.7	µg/kg
	63049	25	8/4/2003 10:45	170	86	15.2	µg/kg
	63050	27	8/4/2003 11:15	170	97	43.6	µg/kg
					2003 Mean Value	33.3	µg/kg
	230724	25	6/16/2005 11:15	168	96	22.5	µg/kg
	230725	26/27	6/16/2005 11:50	168	104	57.3	µg/kg
	230726	28	6/17/2005 9:45	168	132	458 [b]	µg/kg
	230727	28	6/17/2005 9:46	168	132	483	µg/kg
	230728	31	6/17/2005 8:50	168	99	41.4	µg/kg
	230729	102	6/17/2005 9:15	168	106	63.2	µg/kg
					2005 Mean Value	133	µg/kg
	29086-001	SW25	6/10/2007 17:00	168	103	15.7	µg/kg
	29086-002	SW26/27	6/10/2007 17:00	168	106	28.8	µg/kg
	29086-003	SW28	6/10/2007 17:00	168	125	138	µg/kg
	29086-004	SW31	6/10/2007 17:00	168	102	28.3	µg/kg
	29086-005	SW46	6/10/2007 17:00	168	123	112 [b, c]	µg/kg
	29086-006	SW102	6/10/2007 17:00	168	107	28.6	µg/kg
					2007 Mean Value	47.9	µg/kg
	SW-102_062309	SW-102	6/23/2009 14:05:00	195	50	24.3	µg/kg
	SW-31_062309	SW31	6/23/2009 14:10	195	71	22.8	µg/kg
	SW-28_062309	SW28	6/23/2009 15:50	195	87	144	µg/kg
	SW-28D_062309	SW28	6/23/2009 15:50	195	86	140 [b]	µg/kg

Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected from Bay of Islands, Kuluk Bay, and Sweeper Cove, 1999 - 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes	Unit (wet weight)
	SW-25_062709	SW25	6/27/2009 11:30	195	40	9.59	µg/kg
	SW-26_27_062709	SW26/27	6/27/2009 11:35	195	41	11.9	µg/kg
					2009 Mean Value	42.5	µg/kg
	SW25_061811	SW25	6/18/2011 0:00	168	70	10.1	µg/kg
	SW26/27_061811	SW26/27	6/18/2011 0:00	168	63	23.6	µg/kg
	SW28_061511	SW28	6/15/2011 0:00	168	92	178	µg/kg
	SW31_06151	SW31	6/15/2011 0:00	168	72	30.3	µg/kg
	SW102_061511	SW-102	6/15/2011 0:00	168	71	28.5	µg/kg
					2011 Mean Value	54.1	µg/kg
	SW25-061513	SW25	6/15/2013	168	97	14.5	µg/kg
	SW26/27-061513	SW26/27	6/15/2013	168	89	18.0	µg/kg
	SW28-061113	SW28	6/11/2013	168	97	81.3	µg/kg
	SW28DUP-061113	SW28	6/11/2013	168	95	72.4 [b]	µg/kg
	SW31-061113	SW31	6/11/2013	168	108	23.3	µg/kg
	SW102-061113	SW102	6/11/2013	168	97	24.5	µg/kg
					2013 Mean Value	32.3	µg/kg
Rock Sole	227619	AD-07	8/13/1999 12:00	56	41	52.9	µg/kg
					1999 Mean Value	52.9	µg/kg
	227848	AD-19	7/1/2000 12:00	56	46	31.1	µg/kg
	227849	AD-23	7/1/2000 12:00	56	48	81.4	µg/kg
					2000 Mean Value	56.2	µg/kg
	227579	MSL01AI	6/18/2001 12:00	58	41	79.4	µg/kg
	227581	MSL01AO	8/31/2001 12:00	58	41	44.6	µg/kg
					2001 Mean Value	62.0	µg/kg
	227607	MSL02AI	6/24/2002 12:00	58	41	120	µg/kg
	227609	MSL02AO	6/24/2002 12:00	58	43	55.5	µg/kg
					2002 Mean Value	87.5	µg/kg
	63062	63062	7/31/2003 3:20	170	112	132	µg/kg
	63067	63067	7/31/2003 3:20	170	110	78.6	µg/kg
	63063	63063	7/31/2003 3:21	170	104	73.4	µg/kg
	63064	63064	7/31/2003 3:22	170	110	113	µg/kg
	63065	63065	7/31/2003 3:23	170	104	79.5	µg/kg
	63066	63066	7/31/2003 3:24	170	111	98.8	µg/kg
					2003 Mean Value	96	µg/kg
	230713	230713	6/14/2005 10:35	168	86	25.9	µg/kg
	230714	230714	6/14/2005 10:36	168	88	23.9	µg/kg
	230715	230715	6/14/2005 10:37	168	85	14.8	µg/kg
	230716	230716	6/14/2005 10:38	168	86	17.1	µg/kg
	230717	230717	6/14/2005 10:39	168	85	13.1	µg/kg
	230718	230718	6/14/2005 10:40	168	88	22.1	µg/kg
					2005 Mean Value	19.5	µg/kg
	29085-001	SW201	6/4/2007 9:58:00	168	101	80.4	µg/kg
	29085-002	SW202	6/4/2007 9:58:00	168	112	127	µg/kg
	29085-003	SW203	6/4/2007 9:58:00	168	102	57.7	µg/kg
	29085-004	SW204	6/4/2007 9:58:00	168	94	11.5	µg/kg
	29085-005	SW205	6/4/2007 9:58:00	168	101	39.2	µg/kg
	29085-006	SW206	6/4/2007 9:58:00	168	99	39.0 [b,d]	µg/kg
					2007 Mean Value	59.1	µg/kg
	SW201_062609	SW-204	6/26/2009 9:40:00	195	80	49.4	µg/kg
	SW202_062609	SW-204	6/26/2009 10:15:00	195	72	38.7	µg/kg
	SW203_062609	SW-204	6/26/2009 10:35:00	195	84	60.9	µg/kg
	SW204_062609	SW-204	6/26/2009 11:05:00	195	77	39.6	µg/kg
	SW205_062609	SW-204	6/26/2009 11:35:00	195	67	33.5	µg/kg
	SW206_062609	SW-204	6/26/2009 12:05:00	195	78	45.0	µg/kg
					2009 Mean Value	44.5	µg/kg
	SW1_061411	SW1_061411	6/14/2011 0:00	168	81	66.7	µg/kg
	SW2_061411	SW2_061411	6/14/2011 0:00	168	104	67.1	µg/kg

Summary of Adak Rock Sole and Blue Mussel Total PCBs for Samples Collected from Bay of Islands, Kuluk Bay, and Sweeper Cove, 1999 - 2013

Tissue Type	Sample Number	Company Sample ID or Sampling Location	Approximate Sample Date	Number of Analytes Tested	Number of Analytes Detected	Sum of Detected Analytes	Unit (wet weight)
	SW3_061411	SW3_061411	6/14/2011 0:00	168	101	29.4	µg/kg
	SW4_061411	SW4_061411	6/14/2011 0:00	168	91	53.8	µg/kg
	SW5_061411	SW5_061411	6/14/2011 0:00	168	77	64.5	µg/kg
	SW6_061411	SW6_061411	6/14/2011 0:00	168	83	138	µg/kg
					2011 Mean Value	69.9	µg/kg
	SW201-061013	SW201-061013	6/10/2013 0:00	168	97	110	µg/kg
	SW202-061013	SW202-061013	6/10/2013 0:00	168	102	34.6	µg/kg
	SW203-061013	SW203-061013	6/10/2013 0:00	168	94	39.4	µg/kg
	SW204-061113	SW204-061113	6/10/2013 0:00	168	104	27.1	µg/kg
	SW205-061113	SW205-061113	6/10/2013 0:00	168	91	46.5	µg/kg
					2013 Mean Value	51.6	µg/kg

[a]Even though no PCBs were detected, the detection limit of 0.01 µg/kg was used to calculate the mean.

[b]Not used to calculate the mean value because it is a duplicate sample from the sample sampling location

[c] Sample 29086-005 is a duplicate sample taken from location SW-28. The regular sample taken at this location is sample 29086-003.

[d] Sample 29085-006 is a duplicate (split) of sample 29086-005.

Note:

µg/kg - microgram per kilogram

Attachment 1.08

Statistical Assessment of Analytical Data

(On CD only)
Statistical Calculation Backup, N LN95UCL 2013
Charts for Tissue in Sweeper and Kuluk 2013
Mussel Tissue Charts by Location, with Error Bars

Statistical Assessment of Analytical Data for 2013 Adak Marine Monitoring

Statistical analysis and data graphing were performed using MS Excel. Ordinary least squares (OLS) linear regression was used to estimate temporal trends for the arithmetic average (mean) total PCB concentrations representing Sweeper Cove and Kuluk Bay. The population means for each embayment (sampling area) and historical sampling event (including 2013) were estimated as the mean of the associated sample data. The regression lines were generated from the graphed means using Excel and checked by making independent regression calculations from the data used to generate the graphs. The graphs of the means also show the maximum and minimum concentrations measured in the associated samples. Results are presented in Figures 4a, 4b, 5a, and 5b, which are explained in more detail under the sections that discuss the analytical results.

The ninety-five percent upper confidence level (95%UCL) was calculated for each mean using the one-sample t-test, assuming a normally distributed sample population. The 95%UCLs were graphed along with the means for the period of record, including 2013. Where the 95%UCL exceeded the RBAL, the critical p-value exceeds 0.05, and it may be concluded that the population mean exceeds the RBAL, which is the null hypothesis (H_o). The 95%UCLs are graphed in Figures 5a, 5b, 6a and 6b and provided in Tables 1 and 2.

In a similar manner, the critical p-value for rejecting H_o and accepting the alternative hypothesis (H_a) that the population mean is *below* the RBAL was calculated for each case where the RBAL exceeded the sample average. The p-value calculations, like the 95%UCL estimates, used a t-distribution as the sampling distribution. The t-distribution is a normal distribution with uncertain (population) mean and standard deviation, which is the case for the sampled populations in this study. Note that only cases where the 95%UCL is less than the RBAL, result in a value of $p<0.05$, which is the statistical criterion for rejecting H_o. An explicit p-value was not calculated for cases where the sample mean exceeded the RBAL because these cases result in a value of $p>0.50$. The calculated p-values are included in the file titled "08 Statistical Calculation Backup, N LN 95UCL 2013.xlsx" on the attached CD.

To evaluate the 2013 population distribution for the purpose of estimating the sampling distribution for Sweeper Cove and Kuluk Bay and receptor, the associated sample population data were analyzed as a probability plot (ranked sample concentration or log sample concentrations vs. standard normal variate). The graphed data were fitted with best-fit OLS linear (normal) and log-linear (lognormal) regression lines. The quality of fit to a normal (linear) and lognormal (log-linear) distribution, including consideration of R^2 values, was then evaluated. An R^2 equal to or greater than 0.90 without extreme outliers was considered a "good fit." The population distribution probability plots are included in the file titled "08 Statistical Calculation Backup, N LN 95UCL 2013.xlsx" on the attached CD.

The quality of fit of the sample data to a normal distribution was considered adequate for the purpose of estimating the 95%UCL on the population mean, including p-values, assuming a normal (t-distribution) sampling distribution with two exceptions. The exceptions are Sweeper Cove blue mussel data and Sweeper Cove rock sole data, where both means were dominated by an outlier. However, in these cases, the mean exceeded the RBAL, so that $p>0.50$ regardless of the assumed sampling distribution, and estimating a 95%UCL is of no practical importance because there is no chance of rejecting H_o on a statistical basis. Theoretically, while a normally distributed population has a normally distributed sampling distribution for the population mean for any sample size N, with increasing N, the sampling distribution for the mean of virtually any environmental-contaminant population distribution, "near-normal" or not, will increasingly approach a normal distribution.

In particular for this study, the sample sizes N are too small (N = 5) to justify rejecting a H_o of normality for the sampling distribution and adopting any other parametric sampling distribution, particularly one for a small-N lognormal distribution. The theoretical statistics associated with the sampling distribution for the mean of a lognormal distribution is known to result in unrealistically high estimates of upper confidence levels on the mean when sample sizes N are as small as in this study (i.e., N = 5).

Attachment 1.09

Responses to ADEC and Comments on the 2013 Draft Marine Technical Memorandum

Alaska Department of Environmental Conservation
Comments on the Draft – Technical Memorandum - 2013 Marine Monitoring, October 3, 2013
Commenter: Guy Warren (ADEC) Comments Developed: 10/17/13 Responses Developed: 10/28/13

Cmt. No.	Pg. & Line	Sec.	Comment/Recommendation	Response
1.	Page 3, Line 20		Incomplete sentence: Recommend completing sentence. "Therefore, PCB concentrations in Halibut would not be representative of PCB……..concentrations in Kuluk Bay or Sweeper cove.	The sentence will be revised as follows: Therefore, PCB concentrations in halibut would not reflect the results of exposure to PCBs in the environment of Kuluk Bay or Sweeper Cove.
2.	Page 4 Line 22		Don't know if you want to mention anything regarding what we know about human consumption of blue mussels and Rock sole from Kuluk/Sweeper. From the ICMP interviews. Here or at end of next section maybe. Just a suggestion.	The following paragraph will be added to this section (Description of the Marine Monitoring Program for Adak) after the second paragraph that discusses the distribution of fact sheets regarding the fish consumption advisory: The Navy has developed surveys that have included annual interviews to evaluate the resident's awareness of the fish consumption advisory. According to the 2012 Institutional Controls Site Inspection Report dated April 26, 2013, 8 of 10 residents interviewed in 2012 were aware of the fish consumption advisory.
3.	Page 6, Line 6-7		Repeat sentence: "The fish were sorted by length based on visual observation prior to processing." Content is adequately covered in preceding sentence.	The subject sentence will be deleted.
4.	Page 7, Line 25		Don't know if worth mentioning but typically increase is seen in Blue mussels first then in Rock sole the following year as it moves up the trophic levels. .	The following sentences will be added as the last sentence in the paragraph that is referenced in the comment: An increase in PCB concentrations was first detected in the blue mussels soon after dredging in 2005. Then PCB concentrations increased in rock sole during the following sampling event in 2007 as PCB concentrations moved up the trophic levels.
5.	Page 12, Line 3		Recommend adding "located adjacent to small boat harbor" in parenthesis after SW-28 so the reader knows which sample location we are talking about.	The text will be revised as recommended.
6.	Page 13, Line 2		It is also possible that the dredge material is eroding back into the vicinity of the small boat harbor causing a continual source. Also sediments will be regularly disturbed by boat traffic. "However disturbance by boat traffic and runoff from the dredge spoils may be affecting current PCB levels at this location." Please consider adding to end of paragraph.	The following sentence will be added to the end of the paragraph as suggested: However, disturbance of sediment by boat traffic and runoff from the dredge spoils may be affecting current PCB levels at this location.
7.		General	ADEC appreciates the Navy's efforts to collect additional data from the background location this year. This Data will be	Thank you.

Alaska Department of Environmental Conservation
Comments on the Draft – Technical Memorandum - 2013 Marine Monitoring, October 3, 2013
Commenter: Guy Warren (ADEC) Comments Developed: 10/17/13 Responses Developed: 10/28/13

Cmt. No.	Pg. & Line	Sec.	Comment/Recommendation	Response
			useful to the project team as well as other individuals looking at contaminant levels in Marine Tissues. We would like to thank the Navy and your contractors for the efforts this year!	
			End of Comments	

Responses to U.S. Environmental Protection Agency
Comments on the Draft – Technical Memorandum - 2013 Marine Monitoring, October 3, 2013
Commenter: Chris Cora (U.S. EPA) Comments Developed: 11/4/13 Responses Developed: 11/7/13

Cmt. No.	Pg. & Line	Sec.	Comment/Recommendation	Response
1.	Page 2, Item # 7	Executive Summary	Is the reference to historical concentrations between 1999 and 2003 correct, or should 2003 be 2013?	Because it has been 10 years since marine tissue samples were collected from the Bay of Islands, the sentence makes a general comparison between the 2013 analytical results and historical (1999 to 2003) analytical results. Therefore, "historical concentrations measured between 1999 and 2003" is correct.
2.	General		The bookmark for figure 3 takes you to figure 4, the photo of the boat not the map of bay of islands sampling locations.	The bookmark for Figure 3 will be corrected to link the reader to the Bay of Islands sampling locations.
			End of Comments	