

NATIVE VILLAGE OF NORTHEAST CAPE

REMOVAL ACTION REPORT

REVISION 1

Northeast Cape, St. Lawrence Island, Alaska

April 2012

Prepared for:

Native Village of Savoonga IRA Council

P.O. Box 120
Savoonga, Alaska 99769

TABLE OF CONTENTS

SECTION **PAGE**

ACRONYMS AND ABBREVIATIONS iii
1.0 INTRODUCTION 1
1.1 Organization of the Removal Action Report 2
2.0 SITE DESCRIPTION 3
2.1 Location and Description 3
2.2 Site Background and History 3
2.3 2009 Hazardous Building Material Survey 4
3.0 OBJECTIVES AND SCOPE 7
4.0 PROJECT MANAGEMENT 9
4.1 Native Village of Savoonga 9
4.2 Bristol 9
4.3 Subcontractors 9
4.3.1 Satori Group, Inc. 9
4.3.2 TestAmerica Laboratories, Inc. (TestAmerica) 10
5.0 REMOVAL ACTION ACTIVITIES 11
5.1 Mobilization and Demobilization 11
5.2 Documentation 11
5.3 Site Reconnaissance 12
5.4 ACM Abatement 12
5.5 Monitoring and Sampling for Lead Exposure 13
5.6 Debris Removal, Staging, and/or Burning 14
5.6.1 LBP-Containing Debris 15
5.6.2 Consolidation of Metallic and Non-Burnable Debris 16
5.6.3 Burning of Non-Painted Wood Debris 17
5.6.4 Staging of Suspect CON/HTRW for Future Removal 18
6.0 WASTE CHARACTERIZATION SAMPLING RESULTS 19
6.1 Sampling of Painted Wood Debris 19
6.1.1 Sampling of Burner Ash 20
7.0 WASTE MANAGEMENT, TRANSPORTATION, AND DISPOSAL 23
7.1 Waste Management 23

7.2 Transportation and Disposal 24
8.0 PROJECT SUMMARY 25
9.0 POTENTIAL FOLLOW-UP WORK 27
10.0 REFERENCES 29

TABLE

Table 6-1 Painted Wood Debris Waste Characterization Sampling Results.....20
Table 6-2 Burner Ash Waste Characterization Sampling Results 21

FIGURES

Figure 1 Vicinity Map
Figure 2 Site Area Map
Figure 3 Site Detail Map

APPENDICES

Appendix A Responses to ADEC/USACE Removal Action Report Comments
Appendix B Satori Post-Project and LBP Air Monitoring NID Reports; Bristol CIH Memo
Appendix C Photograph Log
Appendix D Field Notebook
Appendix E Laboratory Data Reports
Appendix F EPA ID Number Notification
Appendix G Transportation and Disposal Paperwork

ACRONYMS AND ABBREVIATIONS

µg/m^3	micrograms per cubic meter
ACM	asbestos-containing material
ADEC	Alaska Department of Environmental Conservation
ATV	all-terrain vehicle
Bristol	Bristol Environmental Remediation Services, LLC
CA	Cooperative Agreement
CON/HTRW	Containerized Hazardous, Toxic, and Radioactive Waste
DoD	U.S. Department of Defense
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
FUDS	formerly used defense site
GPS	Global Positioning System
HBMS	Hazardous Building Materials Survey
IRA	Indian Reorganization Act
LBP	lead-based paint
LDRs	Land Disposal Restriction Notification and Certification Forms
mg/L	milligrams per liter
NALEMP	Native American Lands Environmental Mitigation Program
NE Cape	Northeast Cape
NID	Negative Initial Determination
NSI	Northland Services, Inc.
NVNC	Native Village of Northeast Cape
NVS	Native Village of Savoonga
OSHA	Occupational Safety and Health Administration
PCBs	polychlorinated biphenyls
PEL	permissible exposure level
PM	Project Manager
PPE	personal protective equipment
RA	Removal Action
RCRA	Resource Conservation and Recovery Act

ACRONYMS AND ABBREVIATIONS (continued)

Satori	Satori Group, Inc.
SI	site investigation
SOW	Scope of Work
SW	Solid Waste Test Method
TCLP	Toxicity Characteristic Leaching Procedure
TestAmerica	TestAmerica Laboratories, Inc.
USACE	US Army Corps of Engineers
WEC	White Environmental Consultants, Inc.
WMI	Waste Management, Inc.
WP	Work Plan

1.0 INTRODUCTION

This Removal Action (RA) Report has been developed for the Native Village of Savoonga (NVS) for submittal to the US Army Corp of Engineers (USACE), Alaska District, and the Alaska Department of Environmental Conservation (ADEC) as documentation of RA activities performed at the Native Village of Northeast Cape (NVNC) site. The NVNC is located adjacent to Northeast Cape (NE Cape), a former U.S. Department of Defense (DoD) communications station that impacts the people of St. Lawrence Island, Alaska. This report was prepared by Bristol Environmental Remediation Services, LLC (Bristol), under the direction of the NVS. The project was funded by the Native American Lands Environmental Mitigation Program (NALEMP), and activities were guided by the Fiscal Year 2011 Cooperative Agreement (CA) No. NALEMP-FY11-01 between the NVS and the DoD.

The purpose of this report is to document RA activities conducted in order to containerize and remove identified physical and environmental hazards on Native-owned land in and around the NVNC that has been impacted by past military activities. The RA activities conducted at the NVNC during the 2011 field effort included the following:

- Identification, packaging, and removal of asbestos-containing materials (ACM)
- Collection, packaging, and removal of 1) wood painted with lead-based paint (LBP) and 2) other painted wood debris
- Collection and on-site burning of non-painted wood debris
- Staging and containment of suspect Containerized Hazardous, Toxic, and Radioactive Waste (CON/HTRW) (sampling, characterization, and removal is scheduled to occur during the 2012 field season)
- Staging of metallic and non-burnable debris for removal at a later date

The RA activities were performed in accordance with the NALEMP Removal Action Work Plan (WP) (Bristol, 2011) on and inside structures and debris piles at the NVNC site, located at the NE Cape of St. Lawrence Island, Alaska. The purpose of RA activities was to address issues that pose the greatest risk to the community and determine activities that need to be completed in order to guide future remedial actions.

This report describes RA activities that were performed at the NVNC site during the months of August through October 2011.

1.1 ORGANIZATION OF THE REMOVAL ACTION REPORT

This report includes the following sections, in order:

- Introduction
- Site Description
- Objectives and Scope
- Project Management
- Removal Action Activities
- Waste Characterization Sampling Results
- Waste Management, Transportation, and Disposal
- Project Summary
- Potential Follow-up Work
- References

2.0 SITE DESCRIPTION

2.1 LOCATION AND DESCRIPTION

Saint Lawrence Island is located in the Bering Sea, near the territorial waters of Russia, approximately 135 air miles southwest of Nome, Alaska (Figure 1). The NVNC site, located near the NE Cape of the island, falls between Kitnagak Bay to the northeast, Kangighsak Point to the northwest, and the Kinipaghulghat Mountains to the south (Figure 2). The site is located at 63 degrees 19 minutes 38.9 seconds north latitude, 168 degrees 55 minutes 59.3 seconds west longitude. The legal description of the site is Sections 14 and 15, Township 25 South, Range 54 West. Both sections are in the Kateel River Meridian.

The NVNC was once a year-round village site used by the Siberian Yupik Eskimos of Saint Lawrence Island, Alaska. The NVNC has also been termed "Northeast Cape Fish Camp" and "Fish Camp" by various government agencies and past environmental contractors. The NVNC site, located at NE Cape, is mainly used by the residents of the NVS as a traditional fishing, hunting, and food-gathering camp. The site is also utilized throughout the year as a rest stop to wait out storms and bad weather. NVNC residents and visitors once used drinking water collected from the site. However, fear of contamination, due to its close proximity to the NE Cape FUDS site, has caused NVNC residents and visitors to transport and use drinking water collected from other locations around the island. The NVNC site and surrounding areas are owned in common by Kukulget, Inc. and Sivuqaq, Inc., consisting of tribal members of the NVS and the Native Village of Gambell, respectively.

2.2 SITE BACKGROUND AND HISTORY

The NVNC site is located adjacent to the NE Cape formerly used defense site (FUDS No. F10AK0969) that consisted of a U.S. Air Force base and White Alice radio relay site that were operated by the military during the 1950s through the early 1970s. During and after the operation of the military base at NE Cape, various building materials were donated and salvaged for use at the NVNC. Residents of NVNC recall that military personnel gave away building materials, including lumber, paint, wiring, and insulation when the DoD abandoned the base. It is widely believed that the majority of painted building materials donated and salvaged for use at the NVNC were painted prior to their transport to the NVNC

site. At the time of donation and use of the building materials, local residents were unaware of the potential danger posed by the materials. Some of the materials provided by the military have been identified as ACM, and others have been painted with LBP, which is potentially harmful to current and future residents. Contamination from polychlorinated biphenyls (PCBs) has also been identified and documented at areas around the nearby NE Cape FUDS (F10AK0969) facility, raising concerns about the potential presence of PCBs, dioxins, and furans at the NVNC.

Additional contaminants that have been identified at the nearby NE Cape FUDS site include petroleum-based fuels, volatile organic compounds (VOCs), pesticides, heavy metals, and polynuclear aromatic hydrocarbons.

The past and current presence of environmental contamination at many of the FUDS-related sites in the NE Cape area is a cause of concern to Saint Lawrence Island residents. Local residents fear that the NVNC may have environmental impacts present that have been caused by the proximity and downgradient location of the NVNC to the NE Cape FUDS.

2.3 2009 HAZARDOUS BUILDING MATERIAL SURVEY

In 2009 the NVS, with funding from NALEMP and with support from Bristol and its subcontractor, Satori Group, Inc. (Satori), conducted a site investigation (SI), including a Hazardous Building Materials Survey (HBMS) at the NVNC site (Bristol, 2009). In summary, the HBMS identified ACM, including 100 square feet of cement asbestos board and 8 linear feet of transite piping, in addition to potential ACM not sampled, including Air-O-Cell pipe insulation, hose material, vent stack materials, and electrical wiring.

Survey results also indicated the presence of building construction materials containing LBP. The LBP-containing materials were found on various site structures, including door framing, window trim, roof fascia, and on scattered debris around the NVNC site.

Since the potential existed for the ACM and LBP-containing materials to adversely impact the health of NVNC residents and visitors, the NVS requested that additional NALEMP funding be made available to abate, demolish, remove, transport, and dispose of building materials

from the NVNC site. In addition, the physical hazards posed by the debris piles and abandoned structures caused the NVS to request funding support for removal of the debris.

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3.0 OBJECTIVES AND SCOPE

The primary focus of the scope of work (SOW) was to abate and remove materials associated with 33 partially or fully collapsed structures (i.e., debris piles), as well as additional scattered debris located at the NVNC site. These structures, debris piles, and scattered debris pose various physical and environmental hazards to residents who use the NVNC site. Three cabins located at the NVNC that remain in good condition and are occupied briefly each year were not removed or abated; however, abatement and RAs may occur on these three cabins under a future CA. Figure 3 identifies the locations of the three cabins that remain in place.

Personnel and equipment required for removal of the physical and environmental hazards were to be mobilized to and from the site. The ACM and LBP-containing materials were to be removed from the debris piles and packaged properly for transportation and disposal. The WP (Bristol, 2011), along with its associated ACM and LBP Hazard Abatement Plans, were required to be approved by the ADEC and USACE prior to the start of field work. Non-painted wood debris was to be collected and burned on site utilizing a steel burn box and a forced-air blower.

An optional task of properly characterizing and removing buried drums, incidental stained soil related to buried drum removal, and Containerized Hazardous, Toxic, and Radioactive Waste (CON/HTRW) that have been identified at the NVNC through past SI activities was to be potentially funded by the DoD if additional funds were available.

The SOW for RA activities at the NVNC site was as follows:

- Mobilize and demobilize personnel and equipment to and from the NE Cape of Saint Lawrence Island
- Document and map field activities and conditions at the NVNC using detailed notes, photographs, and the Global Positioning System (GPS)
- Remove partially and fully collapsed structures and debris piles, including hazardous building materials, from the NVNC
- Sample, characterize, and remove environmentally impacted soil, buried drums, and CON/HTRW from the NVNC (this optional task was not performed during the 2011 field season, but is planned for 2012).

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4.0 PROJECT MANAGEMENT

Fieldwork for the RA was conducted primarily by NVS personnel with project coordination, logistic, and subcontractor oversight provided by Bristol. Additional Bristol assets were provided by the co-occurring NE Cape FUDS project, including the use of heavy equipment, generators, and other field equipment, as needed. Key personnel are described below.

4.1 NATIVE VILLAGE OF SAVOONGA

The NVS Indian Reorganization Act (IRA) Council designated Robert Annogiyuk as its NALEMP Project Manager (PM) for managing the project for the NVS. Mr. Annogiyuk and his five-person crew of NVS laborers represented the NVS during RA field activities. In addition to Mr. Annogiyuk, the five laborers for the project provided by the NVS included Scott Kingeekuk, Albert Kulowiyi, Jess Reynolds, Elmer Rookok, and Nicholas Toolie. The NVS field crew conducted the majority of the building demolition, debris removal, and non-painted wood burning activities.

4.2 BRISTOL

The Bristol PM for the Savoonga NALEMP Project was Tyler Ellingboe. Mr. Ellingboe prepared the WP (Bristol, 2011) for the NVNC site. Mr. Ellingboe was physically present during the initial ACM packaging and removal and the initial air-sampling event at the start of the field season. His key tasks included supervising and monitoring RA activities and preparing this report with support from the NVS and Satori. Responses to ADEC and USACE comments on this report are included as Appendix A.

The NVNC field effort was also supported by a Bristol Field Manager and assisted by NE Cape FUDS project crew and equipment, as needed.

4.3 SUBCONTRACTORS

4.3.1 Satori Group, Inc.

Alan Caldwell, a Certified American Industrial Hygiene Association Asbestos Analyst Registry Inspector, was the Satori PM supervising the performance of ACM abatement and Negative Initial Determination (NID) air monitoring for LBP exposure. Mr. Phillip Roberson was the Satori Field Supervisor for all ACM abatement and LBP air-monitoring field

activities. Satori's primary task was to remove documented and suspect ACM from the NVNC site prior to the arrival of Bristol and NVS laborers. Satori's secondary task was to perform and monitor the removal of LBP-containing building materials in order to ensure that the permissible exposure level (PEL) for airborne lead was not exceeded. Survey activities were conducted in accordance with the Work Plan (Bristol, 2011) and are documented in Satori's Post-Project Report and Satori's NID Report, which are included as Appendix B.

4.3.2 TestAmerica Laboratories, Inc. (TestAmerica)

TestAmerica was the environmental laboratory selected for the project. TestAmerica received and analyzed all environmental samples collected and submitted for waste characterization. Terri Torres served as the laboratory manager for the project.

5.0 REMOVAL ACTION ACTIVITIES

This section details RA activities that were performed and procedures that were followed in accordance with the WP.

5.1 MOBILIZATION AND DEMOBILIZATION

Personnel, equipment, and materials were mobilized to and from Anchorage, Alaska, to Nome by commercial airlines (Alaska Airlines). Mobilization of field personnel, equipment, and materials from Nome and Savoonga, to and from NE Cape, was provided by charter airline service (Bering Air). Additional supplies and equipment were mobilized and demobilized to and from the site via the NE Cape FUDS barge operated by Northland Services, Inc. During the NVNC RA field effort, Bristol, NVS, and Satori personnel were housed at Bristol's camp located at the NE Cape airstrip (the camp was established for the NE Cape FUDS project).

The initial field crew consisting of the Bristol PM and the abatement subcontractor (Satori) mobilized to the site on August 2, 2011. The NVS PM and field crew mobilized to the site on August 12, 2011, completed 2011 RA field activities, and departed the site on September 10, 2011. Pick-up trucks and the all-terrain vehicles (ATVs) were used to transport field personnel between the NE Cape field camp and the NVNC.

The performance of the Savoonga NALEMP project benefitted greatly from the adjacent NE Cape FUDS activity. Without the NE Cape FUDS infrastructure and equipment availability, the NALEMP project could have been prohibitively expensive.

5.2 DOCUMENTATION

The RA activities were carefully documented and recorded. Site photographs documenting field activities performed, were collected and are presented in Appendix C. Dates, times, sample locations and identifications, field personnel present, and pertinent field observations were recorded in a field notebook and are attached as Appendix D. A Trimble GeoExplorer 2008 GeoXH Series handheld GPS unit was used to mark structures, debris piles, and items of interest during the RA.

5.3 SITE RECONNAISSANCE

On August 2, 2011, prior to the start of 2011 RA field activities, Bristol and Satori personnel walked the NVNC site taking note of all site structures and debris piles. The site reconnaissance was performed to determine the physical boundaries of the NVNC site and the number of structures and debris piles present. The site boundaries were estimated with a surveyor's tape to be approximately 600 feet from north to south from Cargo Beach, along Cargo Beach Road. East to west dimensions of the site were estimated to be approximately 815 feet, excluding the area east of Cargo Beach Road. In addition, the site reconnaissance was performed to preliminarily identify and confirm the locations of ACM and LBP-containing debris that were previously identified in the 2009 NVNC SI Report (Bristol, 2009). Potential physical and chemical hazards that may have been encountered were also discussed.

A total of twelve structures, were identified at the NVNC site in addition to approximately twenty four debris piles (Figure 3). Additional scattered debris was present around the site. Nine of the structures were in varying states of disrepair, open to the elements, and were missing windows, doors, and/or partially collapsed roofs. The nine structures, identified debris piles, and additional debris were scattered throughout the NVNC site and were scheduled for demolition, collection, and removal from the NVNC site. Three livable structures (Structures 1, 3, and 11) were also identified. Per the Work Plan, these structures were not to be abated or removed under the current CA.

5.4 ACM ABATEMENT

On August 3, 2011, Satori personnel donned appropriate personal protective equipment (PPE), and air monitoring equipment and began to abate identified ACM located throughout the NVNC site. Satori removed and packaged sections of transite pipe and cementous asbestos board, in addition to suspect ACM containing wire sheathing and thermal pipe system insulation (TSI).

ACM was properly wetted, either double-bagged in plastic bags or double-wrapped in plastic visqueen sheeting, and properly marked and labeled. The ACM items packaged for transportation and disposal were placed into a properly placarded 20-foot, open-top

intermodal container for storage (Conex No. WMXU6310). The container was staged near the terminus of Cargo Beach Road and the beach landing.

Due to the relatively small volume of ACM removed, a determination was made that the bagged ACM would be placed into 85-gallon steel, open-top drums in order to provide a more secure means of secondary containment. All ACM items were placed into five 85-gallon steel salvage drums prior to off-island shipment. It is estimated that a total net weight of 1,680 pounds of packaged ACM was removed from the NVNC site during the RA.

5.5 MONITORING AND SAMPLING FOR LEAD EXPOSURE

Inspection and sampling of building debris conducted during the 2009 HBMS and SI (Bristol, 2009) indicated positive concentrations of LBP greater than 1 milligram per square centimeter. Although the concentrations of LBP were relatively low, a determination was made that wood containing visible painted surfaces would be removed, packaged, sampled, and shipped off site.

Prior to the NVS laborers handling of LBP-containing debris, Satori conducted air monitoring to ensure that the workers would not be exposed to lead concentrations over the Occupational Safety and Health Administration (OSHA) action level of 30 micrograms per cubic meter ($\mu g/m^3$) of air or above the PEL of 50 $\mu g/m^3$ of air, averaged over an 8-hour shift. An NID for LBP in air was attained by collecting air samples from worker breathing zones over the 2-day period of August 3-4, 2011. Satori workers removed LBP-containing debris from Structures 6 and 8 during the air monitoring events.

At the end of the air monitoring period, the sample cartridges were submitted to White Environmental Consultants, Inc. (WEC), located in Anchorage, Alaska, for laboratory analysis. Analysis was performed by flame atomic absorption spectroscopy using analytical method NIOSH (National Institute for Occupational Safety and Health) 7082. WEC is a current proficient participant in the American Industrial Hygiene Association Environmental Lead Proficiency Analytical Testing Program (Lab ID Number 102739). Analytical results from the August 3-4, 2011, air monitoring events indicated that neither the OSHA Action Level nor PEL for lead in air was exceeded. The results showed airborne lead concentrations

of less than 1 µg/m^3 of air, well below regulatory limits. The Post-Project Report prepared by Satori has been included in Appendix B.

An August 17, 2011, memorandum prepared by Clark Roberts, Bristol's Health and Safety Manager and Certified Industrial Hygienist, summarized his review of the lead in air monitoring report and provided his opinion that OSHA Action Levels and PELs would not be exceeded for the project. Mr. Clark's Initial Determination Monitoring for Lead in Paint memorandum is included in Appendix B.

Monitoring and sampling of concentrations of lead in air led to the determination that Level D PPE would satisfactorily protect workers during RA activities. Workers were provided with and donned hard hats, safety glasses, safety vests, leather and rubber gloves, and steel-toe boots, in addition to Tyvek® overalls, cold weather clothing, and raingear. Respiratory protection was not required; however, paint filter-type masks were provided and worn on occasion during the handling of paint chips.

In addition, and as an added precaution to ensure worker safety, Satori conducted an additional follow-up monitoring event for airborne lead on September 1-2, 2011. Samples were collected from two NVS workers' breathing zone (6- to 9-inch radius of the worker's nose and mouth). Results of initial exposure air monitoring and observations gathered by Satori indicated that LBP-containing debris removal practices combined with engineering controls are highly unlikely to exceed the PEL for employee exposures.

Analytical results from the September 1-2, 2011, monitoring event indicated that LBP-containing materials released amounts of airborne lead particulates at or below 3.5 µg/m^3 of air. Since site workers would continue to utilize similar work practices for the remainder of the project, it was determined that dust counts should not exceed either the OSHA Action Level or the PEL for lead exposure in air. Satori's Final NID Report is included in Appendix B.

5.6 DEBRIS REMOVAL, STAGING, AND/OR BURNING

The primary field task for the project was to remove debris from partially and fully collapsed structures and debris piles. Upon arrival at the NE Cape FUDS field camp, the NVS field

crew was provided a site orientation and given lead awareness training in order to familiarize themselves with scheduled field tasks, site concerns, and safe work practices.

Prior to demolition and debris removal, each structure and debris pile was inspected for the presence of LBP-containing debris; metallic and non-burnable debris; burnable, non-painted wood components; and suspect CON/HTRW. The individual components were hand-sorted and transported to each respective staging area. Identified debris was transported to staging areas using ATVs and utility trailers. The field crew started removal activities from the structures and debris piles located closest to the burner units and then proceeded outward.

Hand tools, including chop saws, chain saws, and Sawsall®-type saws were used to make sections of debris easier to manage. Saws were not used to remove debris that contained painted surfaces. Debris with painted surfaces was removed intact or with pry bars in order to reduce the potential hazard of LBP-containing chips and dust from becoming airborne and ingested. In addition, demolition of some of the unsafe structures was facilitated by using an excavator. An excavator was also used to help break up some of the larger debris sections into more manageable sizes. Debris and CON/HTRW was collected and removed from along the ground surface of the NVNC site. The subsurface of the site was not excavated during debris and CON/HTRW activities.

The following sections further discuss the removal of LBP-containing debris, metallic and non-burnable debris, non-painted burnable debris, and relatively small amounts of suspect CON/HTRW.

5.6.1 LBP-Containing Debris

As mentioned in Section 5.5, air monitoring and sampling of airborne lead was performed prior to debris removal to ensure worker safety. Since painted wood surfaces that were identified as containing concentrations of LBP were largely colocated with other painted wood debris, a determination was made that all wood debris containing painted surfaces would be consolidated for removal.

Painted wood debris consisted of larger pieces of framing lumber and plywood sheeting, as well as paint chips. The larger pieces of painted wood were removed first. Following

removal of the larger pieces of painted lumber, the NVS field crew collected the remaining small pieces and paint chips into polyethylene bags or sheeting by using hand shovels and brooms. It was estimated that approximately 10–15 percent of all wood debris removed from the NVNC site contained painted surfaces and was characterized as LBP debris.

All wood debris containing painted wood surfaces was removed and temporarily moved to a staging area (Figure 3) prior to being loaded into intermodal containers for off-island transportation and disposal. A total of two 20-foot, open-top intermodal containers were used to containerize the painted wood debris. Each container was lined with polyethylene sheeting prior to being loaded.

Bristol environmental field staff collected two representative samples from the painted wood debris for waste characterization, transportation, and disposal purposes. The samples were collected and submitted for analysis to TestAmerica, located in Tacoma, Washington. The debris samples were analyzed for lead concentrations using the Toxicity Characteristic Leaching Procedure (TCLP). As an added precaution, the debris samples were also analyzed for the presence and concentration of PCBs. Laboratory results are discussed in Section 6.0, and the laboratory reports are included in Appendix E.

5.6.2 Consolidation of Metallic and Non-Burnable Debris

In addition to collecting and consolidating painted wood debris, NVS field staff identified and consolidated a variety of metallic and non-burnable debris items. Metallic and non-burnable debris included old military bed frames, stoves, corrugated metal siding, and rusted empty metal drums, in addition to many other non-burnable items. Metal drums were visually inspected for the presence of fluids or residual contamination prior to being transported to the scrap metal pile for future removal. Drums containing fluids and or obvious residual contamination were not encountered. The majority of the metallic and non-burnable items appeared to be of military origin; however, some additional non-military items were also consolidated, including a couple of ATV chassis, scrap fishing nets, and snowmachine tracks.

The removal of metallic and non-burnable debris was not included under the current SOW, so the debris was consolidated for removal under an anticipated future CA.

5.6.3 Burning of Non-Painted Wood Debris

Two round, 12-foot diameter, steel burn boxes were fabricated for burning non-painted wood debris. The burn boxes were approximately 6 feet tall, with a couple of feet buried in the ground surface. The burn boxes had welded steel bottoms that aided in the collection and containerization of ash and unburned residue. Forced air from a compressor-driven blower was piped into the side of each burn box to aid combustion and reduce smoke emissions. Photographs of the burner units are included in the photograph log in Appendix C.

Non-painted wood debris was collected from each structure and debris pile as well as from areas within the NVNC footprint. Non-painted wood debris was either hauled and placed directly into one of the two burner units or was placed adjacent to the burner units until it could be burned. Some of the non-painted wood debris contained high moisture content, so dry drift wood was occasionally used to start and/or keep the fires burning and reduce smoke emissions. It was estimated that 85–90 percent of the wood debris collected from around the NVNC site did not contain painted surfaces and was burned on-site.

Ash recovered from non-painted wood debris burning operations was containerized into 8-cubic yard Super Sack® bags and sampled for proper waste characterization, transportation, and disposal; in total, four bags were used to containerize the ash accumulated from the non-painted wood burning operations.

Bristol environmental staff collected one ash sample for laboratory analysis. Three aliquots from each of the two burner units were composited, and then the ash sample was placed into the sample container. The ash sample was sent to TestAmerica for analysis of TCLP Resource Conservation and Recovery Act (RCRA) eight metals. The eight metal analytes that are included in the analysis include arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. Analytical results are discussed in Section 6.0.

At the conclusion of the field season, the burn units were emptied of ash; however, the units were left in place. Additional follow-on work may occur at the site during the next field season CA, which may utilize the units for additional wood-burning activities.

5.6.4 Staging of Suspect CON/HTRW for Future Removal

Prior to and during debris removal activities, relatively small amounts of suspect CON/HTRW were collected from the interior of structures and from the surface of debris piles and temporarily staged for removal during the next field season. Structure and debris pile locations were marked with a GPS and are identified on Figure 3. Site investigation activities are planned for the NVNC site during the 2012 field season, which will include the collection of soil samples from beneath the former structure and debris pile locations.

The types of potential CON/HTRW that were collected included paint cans, cans of grease, batteries, and suspect powdered dishwashing soap. The suspect CON/HTRW was placed in secondary containment but was not removed from the NVNC site.

Option 1 of the CA for the management of suspect CON/HTRW was exercised and funded by the DoD on September 13, 2011. Due to the risk of not receiving waste characterization sampling results back from the laboratory prior to the last scheduled barge of the season, a decision was made not to actively manage the suspect CON/HTRW this field season. Waste characterization, transportation, and disposal of suspect CON/HTRW is anticipated to occur during the next field season CA.

6.0 WASTE CHARACTERIZATION SAMPLING RESULTS

Waste materials that were shipped off site at the end of the 2011 field season included ACM, painted wood debris, and ash collected from the burner units. Professional knowledge and previous ACM sampling results from the 2009 SI (Bristol, 2009) were used to characterize the ACM collected for off-site transportation and disposal, with no need for additional sampling. Laboratory samples were collected from the painted wood debris and from the burner ash to facilitate proper waste characterization, profiling, and manifesting prior to off-site shipment. Waste characterization and sample results for the painted wood debris and burner ash are discussed below.

6.1 SAMPLING OF PAINTED WOOD DEBRIS

In accordance with the WP, all wood debris with painted surfaces was to be removed and transported off site for proper disposal. Proper waste characterization is required to ensure that waste materials are containerized, transported, and disposed of in accordance with U.S. Department of Transportation (DOT) and RCRA requirements. Grab samples of painted wood debris were collected from sections of painted plywood, window trim, and from painted framing lumber. A clean hole saw was used to core representative plugs of the painted wood debris, and those plugs were placed into sample jars.

Bristol environmental staff collected and submitted two grab samples of painted wood debris for analysis for TCLP lead using U.S. Environmental Protection Agency (EPA) Solid Waste Test Method (SW) 1311/6020. The painted wood debris was also analyzed for concentrations of total PCBs using EPA SW8082. The samples were diluted as part of the TCLP extraction procedure. Since TestAmerica extracted the entire initial samples prior to TCLP lead analysis, an additional two grab samples were required to be collected and submitted to TestAmerica for the analysis of total PCBs. Painted wood debris waste characterization sampling results are listed below in Table 6-1.

An abbreviated version of the painted wood debris analytical report is included in Appendix E. Due to the extremely large size of the analytical report, the full version is included only in the electronic version of this report.

Table 6-1 Painted Wood Debris Waste Characterization Sampling Results

Sample ID No.	TCLP Lead Result (mg/L)	Limit of Quantitation (mg/L)	TCLP Lead RCRA Regulatory Level (mg/L)	Total PCBs Result (mg/kg)	Limit of Quantitation (mg/kg)	TSCA Regulatory Level (mg/kg)
11NVNCDS001	1.5 D	0.0040	5.0	N/A	N/A	N/A
11NVNCDS002	**10.0 D**	0.0040	5.0	N/A	N/A	N/A
11NVNCDS03	N/A	N/A	N/A	0.37 (PCB-1254)	0.0097	50.0
11NVNCDS04	N/A	N/A	N/A	0.28 (PCB-1260)	0.0099	50.0

Notes:
Sample results in **bold** exceed regulatory levels

D	=	The reported value is from a dilution	PCB-1260	=	PCB congener Arochlor 1260
mg/kg	=	milligrams per kilogram	PCBs	=	polychlorinated biphenyls
mg/L	=	milligrams per liter	RCRA	=	Resource Conservation and Recovery Act
N/A	=	not applicable	TCLP	=	Toxicity Characteristic Leaching Procedure
No.	=	number	TSCA	=	Toxic Substances Control Act
PCB-1254	=	PCB congener Arochlor 1254			

Analytical results for the painted wood debris indicated that the RCRA toxicity characteristic regulatory level for lead (5.0 milligrams per liter [mg/L]) was exceeded in sample number 11NVNCDS002. Therefore, the painted wood debris was determined to be a RCRA-regulated hazardous waste. The Toxic Substances Control Act (TSCA) regulatory level of 50 milligrams per kilogram was not exceeded in either of the two painted wood debris samples submitted for analysis.

A modification of the CA was agreed to by the NVS and the DoD (Modification 02), to account for the additional costs associated with the transportation and disposal of RCRA hazardous waste.

6.1.1 Sampling of Burner Ash

As stated in Section 5.6.3, Bristol environmental staff collected one ash sample for waste characterization purposes. Three aliquots from each of the two burner units were composited into a clean sample bowl using a clean nitrile-gloved hand; and then after mixing, the ash sample was placed directly into the sample container. The ash sample was submitted to TestAmerica for analysis of TCLP RCRA eight metals. The burner ash sample was analyzed

using EPA SW 1311/6020/7470A. The samples were diluted as part of the TCLP extraction procedure. Burner ash waste characterization sampling results are listed below in Table 6-2. The complete analytical data report is included in Appendix E.

Table 6-2 Burner Ash Waste Characterization Sampling Results

Analyte	TCLP Result (mg/L)	Limit of Quantitation (mg/L)	TCLP RCRA Regulatory Level (mg/L)
Sample No.: 11NVNCASH01			
Arsenic	0.054 D	0.010	5.0
Barium	0.16 D	0.012	100.0
Cadmium	0.017 D	0.004	1.0
Chromium	0.69 D	0.004	5.0
Lead	**7.9 D**	0.004	5.0
Selenium	ND	0.010	1.0
Silver	0.0071 U	0.004	5.0
Mercury	0.00060 U	0.002	0.2

Notes:
Sample results in **bold** exceed RCRA regulatory levels

D	=	The reported value is from a dilution
mg/L	=	milligrams per liter
ND	=	not detected
RCRA	=	Resource Conservation and Recovery Act
TCLP	=	Toxicity Characteristic Leaching Procedure
U	=	undetected at the limit of quantitation

Analytical results for the burner ash sample indicated that the RCRA toxicity characteristic regulatory level for lead (5.0 mg/L) was exceeded and that the ash must be managed as a DOT/RCRA-regulated hazardous waste. In addition, the analytical result for chromium (0.69 mg/L) makes chromium a RCRA "underlying hazardous constituent" that must be treated to below treatment standards at the disposal facility, in addition to the lead, prior to land disposal.

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7.0 WASTE MANAGEMENT, TRANSPORTATION, AND DISPOSAL

Waste streams accumulated, consolidated, and transported from the site for proper disposal included ACM and RCRA-regulated painted wood debris and burner ash. Since RCRA hazardous waste was generated at the site, the Savoonga IRA Council had to submit an application to EPA Region 10 in order to be issued an EPA ID number for the site (AKR000203687). A copy of the EPA ID Number Notification for the site is included in Appendix F.

7.1 WASTE MANAGEMENT

Following the collection and analysis of waste characterization samples, waste stream acceptance profiles were prepared for acceptance of waste materials into the Waste Management, Inc. (WMI), landfill system. ACM was packaged for transportation and manifested on a non-hazardous waste manifest to Columbia Ridge Landfill and Recycling Center located in Arlington, Oregon, for final disposal.

Analytical results for the LBP-containing debris and the burner ash indicated that both waste streams were RCRA-regulated for the hazardous constituent lead. Waste acceptance profiles were prepared for acceptance of both waste streams into WMI's Chemical Waste Management of the Northwest, Inc., facility located in Arlington, Oregon, for treatment and final disposal. The RCRA-regulated, LBP-containing debris and burner ash waste streams were manifested on Uniform Hazardous Waste Manifests. Land Disposal Restriction Notification and Certification Forms (LDRs) were also prepared for each of the hazardous waste manifests.

In addition to EPA and DOT requirements, Environment Canada regulates the transit of waste materials through Canadian waters. Bristol applied for and received transit notices for each receiving facility from the Canadian government since the barge route would transit through Canadian waters. Bristol staff completed and submitted all movement documents required for notification and transit through Canada.

Copies of waste stream profile sheets, manifests, LDRs, Canadian movement documents and transit notices, and the final waste tracking spreadsheet are included in Appendix G.

7.2 TRANSPORTATION AND DISPOSAL

All waste materials generated during the 2011 field season were packaged, labeled, marked, and placarded in accordance with DOT regulations and shipped off site. Northland Services, Inc. (NSI), served as the DOT-approved marine carrier from the site. NSI used landing crafts to transport the containers to their long-haul barge. Once arriving at the Port of Seattle, the containers were trucked to the railhead by Roadlink and then on the rail (Union Pacific Railroad) to each respective facility for proper treatment and disposal.

Copies of final disposal facility paperwork, including signed manifests, scale tickets, and certificates of disposal, are included in Appendix G.

8.0 PROJECT SUMMARY

The primary focus of the 2011 field season and SOW was to abate and remove materials associated with the approximately 9 partially or fully collapsed structures, 24 debris piles, and additional scattered debris located throughout the NVNC. These structures and debris piles posed various physical and environmental hazards to both residents and visitors of the NVNC site. In a span of little under a month (29 days), the NVS field crew, with support from Bristol, was largely effective in cleaning up identified physical and environmental hazards from a large portion of the NVNC site. Below is a summary of the primary tasks accomplished during the 2011 field effort:

- Successful mobilization and demobilization of personnel and equipment to and from the site
- Performance of all field tasks in a safe manner with no accidents and zero lost-time incidents
- Incident-free removal of the following hazardous materials:
  - 1,680 net pounds of ACM (includes weight of overpack drums)
  - 15,500 net pounds of LBP-containing painted wood debris
  - 49,860 net pounds of lead contaminated burner ash (wet)
- Removal and burning of a significant amount of non-painted wood debris
- Collection and staging of metallic and non-burnable debris for a future RA
- Identification of remaining suspect CON/HTRW for future sampling and characterization under a future CA

Although it is hoped that additional follow-up work will take place at a later date, the project was largely successful in accomplishing the SOW under the FY11 CA. Additional follow-up work will be proposed and negotiated between the NVS and the USACE in the FY12 Pre-Proposal and CA.

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9.0 POTENTIAL FOLLOW-UP WORK

Many of the physical and environmental hazards that were present at the start of the 2011 field season were removed during the field effort; however, there are some remaining tasks that the NVS would like to be performed. The following is a list of remaining items that the NVS would like to see addressed under future CAs with the DoD:

- Collection and removal of remaining surface and subsurface debris:
  - Additional debris has been identified along the creek drainage and there appear to be additional items located at random locations throughout the NVNC.
- Containerization, transportation, and disposal of remaining metallic and non-burnable debris:
  - Metallic and non-burnable debris collected during the 2011 field effort is currently staged for removal.
- Performance of a comprehensive SI and sampling program:
  - The NVS would like to see an extensive SI and sampling program implemented at the NVNC site in order to identify whether any environmental and health hazards exist in soil, sediment, and surface water.
- ACM and LBP abatement and removal from the three remaining livable structures at the NVNC:
  - The three remaining structures have been shown to contain ACM and LBP. The NVS would like to see the hazards removed without affecting the integrity of the structures.
- Performance of hazardous debris and abatement activities at other remote camps throughout St. Lawrence Island:
  - An island-wide survey should be conducted in order to document the presence or absence of DoD-provided hazardous building debris at other remote camp sites around the island.

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10.0 REFERENCES

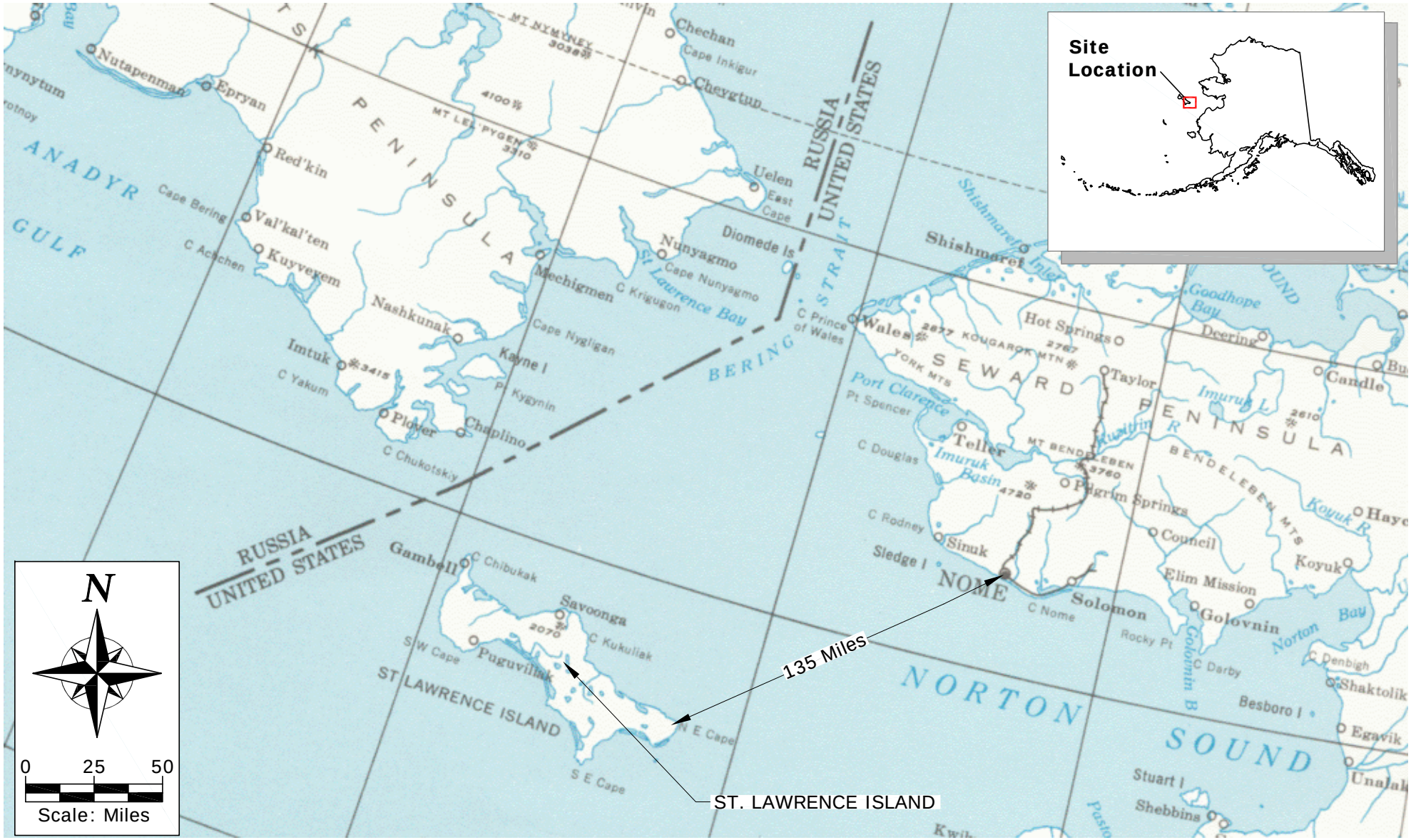
Bristol Environmental Remediation Services, LLC. 2009. *Native Village of Northeast Cape Site Investigation Report.* Revision 1. Northeast Cape, St. Lawrence Island, Alaska. December.

Bristol. 2011. *NALEMP Removal Action Work Plan.* Cooperative Agreement No: NALEMP-FY11-01, Native Village of Northeast Cape "Northeast Cape Fish Camp," Saint Lawrence Island, Alaska. Revision 1. August.

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FIGURES

Drawing: O:\JOBS\49029 SAVOONGA NALEMP\ACAD-ENVIRO\FIGURES\DWG\49029_FIG1_MAY09.DWG - Layout: 49029_FIG1_MAY09
User: MGARCIA May 15, 2009 - 10:05am Xrefs: - Images: NECAPE.JPG



Source: USGS National Atlas Sheet Number 42-43

FIGURE 1
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
SAVOONGA NALEMP
VICINITY MAP

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC
Phone (907) 563-0013 Fax (907) 563-6713
PROJECT NO. 49029

DATUM: NA
PROJECTION: NA

DATE 05/11/09
DWN. MTG
SCALE SHOWN
APPRVD. TE

Drawing: O:\JOBS\49029 SAVOONGA NALEMP\ACAD-ENVIRO\FIGURES\DWG\49029_FIG2_MAY09.DWG - Layout: 49029_FIG2_MAY09
User: MGARCIA May 15, 2009 - 10:08am Xrefs: - Images: NE1.JPG

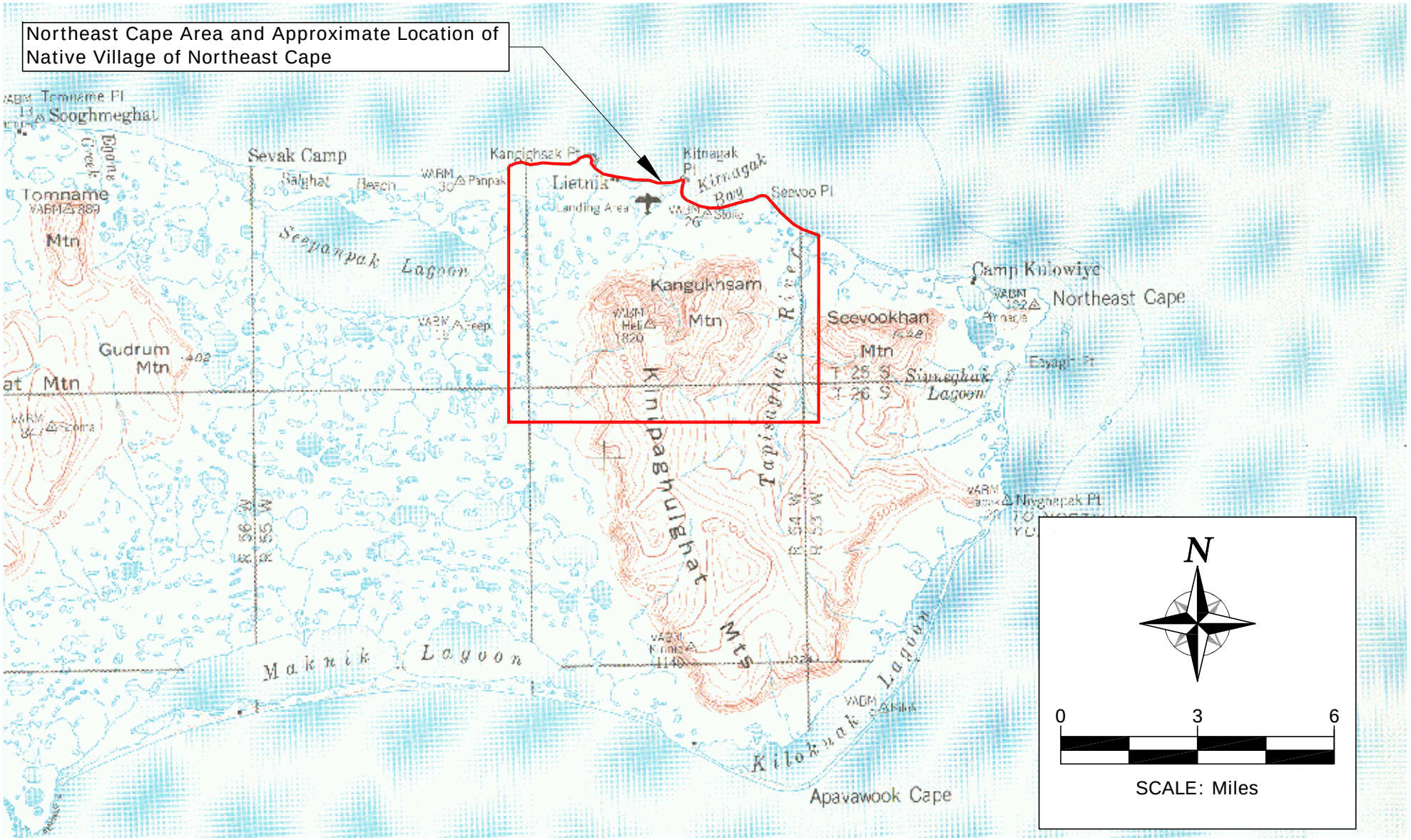


FIGURE 2
NORTHEAST CAPE, ST. LAWRENCE ISLAND, ALASKA
SAVOONGA NALEMP
SITE AREA MAP

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC
Phone (907) 563-0013 Fax (907) 563-6713
PROJECT NO. 49029

DATUM:	NA
PROJECTION:	NA
DATE	05/11/09
DWN.	MTG
SCALE	NTS
APPRVD.	TE

Livable Structure
11
10
9
Burn Units
7
6
Painted Debris Pile
5
Metal Debris Pile
2
Conex® Staging Area
Livable Structures
4
3
1
8
12
Cargo Beach Road

Legend

- Debris Pile
- Steel Burn Unit
- Suspect CON/HTRW
- Cargo Beach Road
- Creek Drainage
- Estimated NVNC Boundaries (Not to Scale)
- Site Structure
- Painted Debris Pile
- Metal Debris Pile

Note:
CON/HTRW = Containerized Hazardous, Toxic, and Radioactive Waste
NVNC = Native Village of Northeast Cape

N
W E
S

0 50 100 150 200
Feet

Figure 3
Northeast Cape, St. Lawrence Island, Alaska
Native Village of Northeast Cape
Site Detail Map

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC
Phone (907)563-0013 Fax (907)563-6713
Project No. 49029

DATUM:	NAD 83
PROJECTION:	Alaska State Plane Zone 9
DATE	01-10-12
DWN.	BERS-RJ
SCALE	1:1,200
APPRVD.	BERS-TE
SHEET	1 of 1

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APPENDIX A

Responses to ADEC/USACE
Removal Action Report Comments

STATE OF ALASKA

SEAN PARNELL, GOVERNOR

DEPT. OF ENVIRONMENTAL CONSERVATION

DIVISION OF SPILL PREVENTION AND RESPONSE
CONTAMINATED SITES PROGRAM

555 Cordova Street
Anchorage, AK 99501
PHONE: (907) 269-3053
FAX: (907) 269-7649
www.dec.state.ak.us

File: 475.38.023

April 25, 2012

Native Village of Savoonga (NVS)
Attn: Mr. Mitchell Kiyuklook - NVS President
P.O. Box 120
Savoonga, AK 99769

Re: ADEC Review of the Draft February 2012 Native Village of Northeast Cape (NEC) NALEMP Removal Action Report

Dear Mr. Kiyuklook;

Thank you for providing the Alaska Department of Environmental Conservation's Contaminated Sites program (ADEC) with a copy of the draft NEC NALEMP Removal Action Report which is dated February 2012 and was received by ADEC on February 22, 2012.

ADEC previously completed its review of the draft report and submitted its comments electronically to the NVS and Bristol Environmental, LLC (Bristol) via email on April 10, 2012. Attached with this letter is a copy of ADEC's comments on the draft report for your records.

Please contact me at 907.269.3053 or curtis.dunkin@alaska.gov if you have any questions regarding this letter.

Sincerely,

Curtis Dunkin
Environmental Program Specialist

Cc: Robert Annogiyuk – NVS (via email)
Tyler Ellingboe – Bristol ERS, LLC (via email)
Carey Cossaboom – USACE (via email)

Printed on Recycled Paper

Alaska Department of Environmental Conservation (ADEC)
Contaminated Sites Program
Document Reviewed: Draft 2012 NVS NALEMP 2011 RA Report
Commenter: Curtis Dunkin-ADEC **Date Submitted:** April 6, 2012
Responder: Tyler Ellingboe-Bristol Environmental Remediation Services **Date Submitted:** April 25, 2012

#	Page #	Section	ADEC Comment	Response
1.	1	1.0	Re: the fourth bullet of RA activities on this page, how were CON-HTRW materials stored/overwintered for removal at a later date; and, where the locations surveyed/notated where these materials were discovered? What surface and/or subsurface disturbances occurred at suspected CON-HTRW and HTRW sites that would influence future characterization?	Added additional text to reflect that sampling, characterization, and removal are scheduled to occur during the 2012 field season. Added additional text to Sections 5.6.4 and 5.6. The suspect CON-HTRW materials were collected from the interior of the structures and from the surface of debris pile locations and were placed in secondary containment for overwintering until the materials can be properly sampled and characterized during the 2012 field season (Section 5.6.4). Structure and debris pile locations were marked by GPS to be followed by site investigation soil sampling to be performed during the 2012 field season (Section 5.6.4). Debris and CON/HTRW was collected and removed from along the ground surface of the NVNC site. The subsurface of the site was not excavated during debris and CON/HTRW activities (Section 5.6, 3rd paragraph).
2.	3	2.1	The last sentence of the second paragraph states that 'the site' (which the text of the narrative infers the 'Fish Camp') is a '…source of drinking water, which is hauled to other locations in the area'. Drinking water source areas which are utilized in	Amend text to read that the site used to be used by NVNC residents and visitors as a source of drinking water; however, due to fear of contamination due to its close proximity to the

			association with the Fish Camp should be depicted on an existing or a new figure(s). Per comment #3 below, is drinking water obtained from any sources directly within the site boundary of the Fish Camp? This should be further explained and clarified in the narrative of this and other pertinent sections.	NE Cape FUDS site, drinking water is collected and used from other areas around the island.
3.	General	Figures/ Site Boundary	Existing and/or new figures need to depict the boundary (or roughly what is considered to be the boundary) that defines the site-specific area that is considered to be the Fish Camp for the purpose of defining the area of concern related to this RA as well as future site work.	Figure 3 will be modified to reflect the rough boundary of the NVNC "Fish Camp" site.
4.	3	2.2	First sentence of this section, replace 'near…a FUDS' w/ 'adjacent to…a FUDS'.	Correction was addressed while addressing USACE comments.
5.	3	2.2	Re: the last sentence on this page that states '…others [materials] have been painted w/ LBP', it should be further discussed and clarified in the narrative re: what is known about whether or not the materials were painted w/ LBP prior to being given to Fish Camp residents. Is there any knowledge regarding whether LBP was reapplied by residents post-construction of cabins? This is of concern due to the fact that years of weathering, reapplication of LBP, and continued weathering would increase ADEC's concerns re: lead contamination in soils.	Inserted sentence stating that it is widely believed that the majority of painted building materials donated and salvaged for use by the NVNC residents were painted prior to their transport to the NVNC site.
6.	4	2.2	First sentence of this page, replace the word 'nearby' w/ 'adjacent'.	Correction was addressed while addressing USACE comments.
7.	5	3.0	First sentence of this section, re: the statement '…approximately 33 partially or fully collapsed structures (i.e. debris piles)…' more discussion should be included in this section that clarifies what is meant by 'approximately'. Where 33 structures (partially or fully collapsed) addressed as part of this RA, and/or does 'approximately' and 'debris piles' infer that it was not discernible exactly how many individual cabins/structures were	Deleted word "approximately." Comment further addressed in second paragraph of Section 5.3, by rewording and amending paragraph to reflect that during the reconnaissance a total of 12 structures, 24 debris piles, and additional scattered debris was present and that nine of the structures were removed. Three livable structures remain at the

			associated with the materials and debris at the site – or simply 9 structures and 24 debris piles?	site.
8.	5	3.0	Second to last sentence of the second paragraph of this section, insert 'ADEC-'in the statement '…the WP had to be [ADEC-] approved…'	Added text to reflect plans being approved by both the ADEC and USACE prior to the start of field work.
9.	5	3.0	The last bullet on this page and section states that the SOW for RA activities included sampling, characterizing and removing environmentally impacted soil. However, responses to ADEC's comments on the draft work plan stated that impacted soils would not be sampled, characterized, or removed as part of the 2011 RA. This needs to be clarified and or revised.	Added clarification to bullet reflecting that this was an optional task that was not performed during the 2011 field season, but is tentatively planned to occur in 2012.
10.	7	4.0	Describe the 'additional assets' that were provided by Bristol which were directly associated w/ this RA.	Added text to reflect that additional Bristol assets provided included the use of heavy equipment, generators, and other field equipment, as needed.
11.	10	5.4	Last sentence of first paragraph of this section, delete the redundant word 'insulation' and reword to state '…thermal pipe system insulation'.	Amended text as recommended.
12.	14	5.6.2	Re: the metal drums that were discovered and staged with the metallic and non-burnable debris, the narrative should discuss how the drums were inspected for fluids and/or potential residual contamination to determine whether or not either were observed.	Added text to section stating "Metal drums were visually inspected for the presence of fluids or residual contamination prior to being transported to the scrap metal pile for future removal. Drums containing fluids and or obvious residual contamination were not encountered."
13.	15	5.6.4	Rephrase first sentence of this section to state that option 1 was 'partially exercised'. This section should discuss how the suspected CON-HTRW wastes were handled and staged/overwintered in order to be addressed under a future CA. See comment #1 above. Also, the work plan stated that stained and potentially/suspected contaminated soil areas that were observed as part of this RA would be addressed if encountered;	Rephrased and amended first paragraph to reflect that the suspect CON-HTRW materials were collected from the interior of the structures and from the surface of debris pile locations and were placed in secondary containment for overwintering until the materials can be properly sampled and characterized during the 2012 field

			'addressed' was defined in the work plan as documented, site location recorded via GPS, and if grossly contaminated (i.e. free product), contaminated soil would be sampled, removed and containerized, and either disposed off site during this or future RAs. Any of these observations and/or actions should be discussed in the report. If no stained or grossly contaminated soil was observed, then this should be briefly stated and discussed. Future site work will need to include further characterization of sites where potential CON-HTRW and/or HTRW contamination has been observed (i.e. drums, tanks, stained soils, etc.).	season. Structure and debris pile locations were marked by GPS to be followed by site investigation soil sampling to be performed during the 2012 field season. Debris and CON/HTRW were collected and removed from along the ground surface of the NVNC site. The subsurface of the site was not excavated during debris and CON/HTRW activities (Section 5.6, 3rd paragraph).
14.	18	Table 6.1	(1) The dilutions notated in the table for the TCLP lead analysis of the painted wood debris should be explained in the narrative of the report. (2) Also, due to the fact the PCB analysis results of the two samples collected from the painted wood debris were 0.28 and 0.37 mg/Kg, there is reason to be concerned that PCB levels could have increased due to concentration in burned ash. Although the ash has already been shipped off site for disposal, future site work should include collecting soil samples for PCB analysis from the areas associated with the two burners after they are removed.	(1) Added text to Section 6.1 and 6.1.1 stating that the samples were diluted as part of the TCLP extraction procedure. (2) Noted. The 2012 Work Plan will address the collection of analytical samples from beneath the wood burner units.
15.			**End of ADEC Comments**	

REVIEW COMMENTS **PROJECT: Native Village of Savoonga FY11 NALEMP CA**
DOCUMENT: NVNC Removal Action Report, Rev 0 – February 2012 Location: St. Lawrence Island, Alaska

U.S. ARMY CORPS OF ENGINEERS	**DATE: April 2, 2012** **REVIEWER: Carey Cossaboom** **PHONE: 753-2689**	**Action taken on comment by:** Tyler Ellingboe, Project Manager, Bristol Environmental Remediation Services, LLC Phone: (907) 563-0013 E-mail: tellingboe@bristol-companies.com

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	NVS RESPONSE	COMMENTOR REPLY (A-AGREE) (D-DISAGREE)
1.	Pg. 1, 1st par.	"The NVNC is located adjacent to Northeast Cape, a former U.S. Department of Defense (DoD) ~~site~~ communications station that impacts the people of St. Lawrence Island, Alaska."	Change made in report.	A
2.	Pg. 3, Sec. 2.1, last sen.	List Kukulget before Sivuqaq, and then insert "respectively" after the word Gambell.	Change made in report.	A
3.	Pg. 3, Sec. 2.2, 1st sen.	~~Located near t~~The NVNC is adjacent to the Northeast Cape~~a~~ formerly used defense site (FUDS # F10AK0969) that ~~contained~~ consisted of a U.S. Air Force base and White Alice …"	Change made in report.	A
4.	Pg. 7, Sec. 4.0, 1st sen.	Reword. Conducted primarily by NVS with logistics and coordination by Bristol.	Reworded text.	A
5.	Pg. 7, Sec. 4.2, last sen.	"The NVNC field effort was also ~~supervised~~ supported by a Bristol Field Manager and …"	Change made in report.	A
6.	Pg. 9, Sec. 5.1, 1st par.	This doesn't explain how the NVS workers got to and from the site.	Added text to reflect that pick-up trucks and ATVs were used to transport the field crew between the NE Cape field camp and the NVNC. Added additional text.	A
7.	Pg. 9, Sec. 5.1	Would be important to mention that the NALEMP Project benefitted greatly from the FUDS activity on site. Without the FUDS infrastructure and equipment availability, this project could have been prohibitively expensive.	Added text as the last paragraph of Section 5.1 to address USACE comment.	A
8.	Pg. 9, Sec. 5.2, 2nd sen.	"Site photographs ~~were collected and~~of the activities are presented …"	Change made in report.	A
9.	Pg. 10, Sec. 5.3, 2nd par., 1st sen.	This says 12 intact structures and 18 debris piles. Figure 3 shows 11 structures and 24 debris piles.	12 intact structures are identified on Figure 3. Structure #12 was a small structure located west southwest of structure #8. Amended text in report to reflect a total of 24 debris piles.	A
10.	Pg. 10, Sec. 5.3, 2nd par., 2nd sen.	Some of the remaining structures? Do you mean the twelve intact structures? Do the three livable structures have any of these problems? Why would it matter if the other structures were missing windows? Perhaps you're just trying to describe the nine structures identified for removal. Please clarify.	Clarified text to reflect a total of 12 structures, 9 of which were to be removed along with debris piles and additional scattered debris. Past tense incorporated.	A

REVIEW COMMENTS **PROJECT: Native Village of Savoonga FY11 NALEMP CA**
DOCUMENT: NVNC Removal Action Report, Rev 0 – February 2012 Location: St. Lawrence Island, Alaska

U.S. ARMY CORPS OF ENGINEERS	**DATE: April 2, 2012** **REVIEWER: Carey Cossaboom** **PHONE: 753-2689**	**Action taken on comment by:** Tyler Ellingboe, Project Manager, Bristol Environmental Remediation Services, LLC Phone: (907) 563-0013 E-mail: tellingboe@bristol-companies.com

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	NVS RESPONSE	COMMENTOR REPLY (A-AGREE) (D-DISAGREE)
11.	Pg. 10, Sec. 5.3, 2nd par., 4th sen.	"~~The t~~Three livable …"	Change made in report.	A
12.	Pg. 12, 2nd par., 3rd line	"… were collected from ~~the~~ two NVS workers' breathing …"	Change made in report.	A
13.	Pg. 14, Sec. 5.6.3, 1st sen.	Two round 12-foot diameter steel burn boxes were …"	Change made in report.	A
14.	Pg. 15, last sen.	"… during the next field season ~~under a projected future~~ CA."	Change made in report at end of Sections 5.6.3 and 5.6.4.~~.~~	A
15.	Pg. 17, 2nd sen.	What do you mean by generator knowledge? Please clarify.	Changed "Generator" to "Professional"	A
16.	Pg. 17, Sec. 6.1, 1st par., last sen.	"… to core representative plugs of the painted wood …"	Change made in report.	A
17.	Pg. 18, Sec. 6.1	Please add that a modification to the CA was agreed to between the NVS and the DoD (MOD 02) to account for the additional costs anticipated with transportation and disposal of RCRA hazardous waste.	Added requested text as last paragraph in Section 6.1.	A
18.	Pg. 19	Does it matter if the chromium is trivalent or hexavalent?	Noted. The samples were for disposal only and not for clean-up of a site. The chromium value reported by the lab was total chromium reported using the TCLP Metal Analysis. The universal treatment standards (40CFR268.48) only list a total chromium concentration.	A
19.	Pg. 23, 1st sen.	Similar to comment #8; Page 10 suggests 30 structures. Please make consistent in these locations and on Figure 3.	Amended text to reflect 9 structures, 24 debris piles, and additional scattered debris were removed.	A
20.	Pg. 23	Could you venture a guess (either here and/or Sections 5.6.1 or 5.6.3) on what percentage of wood was painted vs. what was burned? I'm amazed at how much burner ash remained. Perhaps this was because the wet conditions prevented the wood from completely burning, or the ash got wet. For instance, an unscientific review of internet dialogue suggests 300 lbs of wood would yield 2 pounds of ash. Another entry suggested 10 kg. of would might yield 0.5 Kg of ash.	Added text to Section 5.6.1 that it was estimated that 10-15% of all wood debris removed from the NVNC contained painted surfaces and was characterized as LBP debris. Added text to Section 5.6.3 stating that it was estimated that 85-90 % of the wood debris collected from around the NVNC did not contain painted surfaces and was burned on-site. Added word "wet" to the weight of the ash to indicate that the ash had moderate levels of moisture present.	A

U.S. ARMY CORPS OF ENGINEERS	**DATE: April 2, 2012** **REVIEWER: Carey Cossaboom** **PHONE: 753-2689**	**Action taken on comment by:** Tyler Ellingboe, Project Manager, Bristol Environmental Remediation Services, LLC Phone: (907) 563-0013 E-mail: tellingboe@bristol-companies.com

Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	NVS RESPONSE	COMMENTOR REPLY (A-AGREE) (D-DISAGREE)
		Numbers like this suggest that less than 1 % of the wood was painted. Perhaps the field crew has a better estimate than attempting any math.		
21.	Appendix B	Shouldn't the second title read: 2nd Satori NID Report? The Post-Project Report actually incorporated the initial NID Rpt.	Added additional verbiage stating that the Satori Post-Project Report includes the first negative Initial Determination (NID). Amended reference to second Satori Report stating that it includes the second NID.	A

APPENDIX B

Satori Post-Project Report (including first NID)

Satori Second NID Report

Bristol Initial Determination
Monitoring for Lead in Paint Memo

SATORI POST-PROJECT REPORT (including first NID)

NALEMP Removal Action Cooperative Agreement

*Post Project Report *

Native Village of Northeast Cape
St. Lawrence, Alaska

Owner/Client:

Bristol Environmental Remediation Services, LLC
111 W 16th Ave, third floor
Anchorage, AK 99501-5109

Prepared by:

Satori Group, Inc.
1310 E. 66th Ave., Ste 2
Anchorage, AK 99518
907-332-0456 ph
907-332-0457 fax
www.gosatori.com
info@gosatori.com

August2011

Table of Contents

Section A - Notification

Section B - Daily Field Reports

Section C - Lab Report

Section D - Visual Inspection

Section E - Photographs

Section A - Notification

Satori Group, Inc.

FACSIMILE TRANSMITTAL SHEET

TO: PATTY
COMPANY: ADOL
FAX #: 269-4950
RE: ABATEMENT WORKERS

FROM: ALAN CALDWELL
DATE: 8/1/11
TOTAL PAGES W/COVER: 1
SATORI PROJECT # : 10651

Miss Patty,

Satori Group, Inc. will be performing abatement of ACM at the **NE Fish Camp located on St Lawrence Island** The intent of this fax is notification of the job and workers participating as per AAC 61.620b.

Workers to be involved are listed here:

Last Name	First Name	Cert #	Exp Date
Caldwell	Alan	20020632	04.15.12
Skannes	Charlie	20050444	02.04.12
Kindelan	Wilmer	20090701	02.04.12
Khamis	Bashier	20090838	02.04.12
Pupo	Rubier	20100280	02.04.12
Rodriguez	Maikel	20090702	02.04.12
Roberson	Phillip	00004436	10.15.11
Pettis-Cerutti	Cole	20061136	02.04.12

We will start the asbestos abatement on **Tues Aug 1, 2011**. This project is expected to be **completed on Aug 8, 2011.**

Should you have any questions or require additional information, please contact our office @ (907)332-0456.

Thank you,

INITIAL ASBESTOS PLAN APPROVAL

DATE: 8/1/11

APPROVED BY: Pat

STATE OF ALASKA - DOL/OSH
MAINTAIN AT WORKSITE

1310 E. 66th Avenue, Ste. 2 * Anchorage, AK 99518
Ph 907.332.0456 * Fax 907.332.0457
www.gosatori.com

Section B - Daily Field Reports

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

WORK AREA PREPARATION AND DAILY SITE INSPECTION CHECKLIST

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/02/11
Project No: 10651
Daily Report #: 1

Asbestos ☑ **Lead** ☐ **Other** ☐

WORK AREA PREPARATION PROCEDURES	Completed	N/A
1. EPA/DOL Notifications Current & Posted	☑	☐
2. Notice and Job Board Complete and Displayed	☑	☐
3. Supervisor's Handbook and Project Log Book	☑	☐
4. Post Danger Asbestos/Warning Lead Signs	☑	☐
5. Secure the Area	☑	☐
6. Shut Down the HVAC	☐	☑
7. Clean and Remove Furniture and Fixtures	☐	☑
8. Seal Stationary Items	☑	☐
9. Tape and Seal Windows, Vents and All Critical Openings	☑	☐
10. Cover the Floor and Walls with Polyethylene	☑	☐
11. Secure the Electrical System	☐	☑
12. Establish Decontamination Unit(s)	☑	☐
13. Establish Waste Load Out Unit	☑	☐
14. Establish Negative Pressure in Area	☐	☑
15. Notify Other Building Occupants	☐	☑
16. Establish Break/Lunch Area	☑	☐

DAILY SITE INSPECTION	Completed	N/A
1. Barriers and Enclosure	☑	☐
2. Negative Air System – Being monitored and working properly	☐	☑
3. Demarcation Signs	☑	☐
4. Work Area Clean	☑	☐
5. Protective Equipment	☑	☐
6. Have all workers sign Regulated Sign In/Out Sheet	☑	☐
7. Decon Unit – Being monitored and work properly	☑	☐
8. Electrical System Used – GFCI's	☑	☐
9. Load Out Area – Secured	☑	☐
10. Storage Area – Secured	☑	☐
11. Work Practices Reviewed and Discussed with Crew	☑	☐
12. Safety Meeting Held	☑	☐
13. Equipment Needed List	☑	☐
14. Air Monitoring Results Posted	☑	☐
15. Morning/End of Shift – Water On/Off	☑	☐
16. First Aid Supplies – Available and Stocked	☑	☐

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

DAILY FIELD REPORT

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/02/11
Project No: 10651
Daily Report #: 1

1. WORK ACTIVITIES PERFORMED TODAY:

1:00pm On site at St.Lawrence Island with crew. Attended job site orientation and safety meeting.

2:00pm On site at the N.E. Cape fish camp. Began identifying where ACM is located to prep for clean up.

7:00pm All ACM locations identified, off site for the day.

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/02/11
Project No: 10651
Daily Report #: 1

1. ACM DISPOSABLE BAGS GENERATED TODAY:

None.

2. INSPECTION (s) PERFORMED:

None.

3. AIR MONITORING PERFORMED DURING ABATEMENT:

None.

4. CHANGES, DIRECTIVES AND/OR INSTRUCTIONS RECEIVED OR GIVEN:

None.

5. REMARKS:

None.

6. JOB SAFETY EVALUATION:

Good.

7. CONTRACTOR'S VERIFICATION:

The above report is complete and correct, and all material and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above.

Project Supervisor: 08/02/11 / 
Date

Satori Group, Inc.
1310 E. 66th Avenue, Suite 2
Anchorage, AK 99518

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

DAILY SAFETY MEETING

Competent Person: Phil Roberson **Date:** 08/02/11

Satori Project No.: 10651 **Project Name:** NE Cape Fish Camp NALEMP

Project Location: St. Lawrence Island

MEETING ATTENDEES:

	Name (Print)	Signature	Company
1.			
2.			
3.	See Bristol Environmental Remediation Services' Daily Safety Meeting Sign-In Sheets for Satori attendee's names & signatures.		
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

BRIEF DISCUSSION OUTLINE:

ATTENDEES' SAFETY CONCERNS / OBSERVATIONS:

SAFETY RECOMMENDATIONS / ACTIONS TAKEN:

NEW TASKS IDENTIFIED REQUIRING HAZARD ASSESSMENT:

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

WORK AREA PREPARATION AND DAILY SITE INSPECTION CHECKLIST

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/03/11
Project No: 10651
Daily Report #: 2

Asbestos ☑ **Lead** ☐ **Other** ☐

WORK AREA PREPARATION PROCEDURES	Completed	N/A
1. EPA/DOL Notifications Current & Posted	☑	☐
2. Notice and Job Board Complete and Displayed	☑	☐
3. Supervisor's Handbook and Project Log Book	☑	☐
4. Post Danger Asbestos/Warning Lead Signs	☑	☐
5. Secure the Area	☑	☐
6. Shut Down the HVAC	☐	☑
7. Clean and Remove Furniture and Fixtures	☑	☐
8. Seal Stationary Items	☑	☐
9. Tape and Seal Windows, Vents and All Critical Openings	☑	☐
10. Cover the Floor and Walls with Polyethylene	☑	☐
11. Secure the Electrical System	☐	☑
12. Establish Decontamination Unit(s)	☑	☐
13. Establish Waste Load Out Unit	☑	☐
14. Establish Negative Pressure in Area	☐	☑
15. Notify Other Building Occupants	☐	☑
16. Establish Break/Lunch Area	☑	☐

DAILY SITE INSPECTION	Completed	N/A
1. Barriers and Enclosure	☑	☐
2. Negative Air System – Being monitored and working properly	☐	☑
3. Demarcation Signs	☑	☐
4. Work Area Clean	☑	☐
5. Protective Equipment	☑	☐
6. Have all workers sign Regulated Sign In/Out Sheet	☑	☐
7. Decon Unit – Being monitored and work properly	☑	☐
8. Electrical System Used – GFCI's	☑	☐
9. Load Out Area – Secured	☑	☐
10. Storage Area – Secured	☑	☐
11. Work Practices Reviewed and Discussed with Crew	☑	☐
12. Safety Meeting Held	☑	☐
13. Equipment Needed List	☑	☐
14. Air Monitoring Results Posted	☑	☐
15. Morning/End of Shift – Water On/Off	☑	☐
16. First Aid Supplies – Available and Stocked	☑	☐

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

DAILY FIELD REPORT

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/03/11
Project No: 10651
Daily Report #: 2

1. WORK ACTIVITIES PERFORMED TODAY:

7:00am	On site, performed daily safety meeting.
7:30am	Crew in PPE, began removal of CAB in Structure 2. Picked up loose CAB troughout work site, and wrapped up transite pipe debris.
10:00am	ACM work done, bagged and placed debris into disposal connex. Crew began lead removal for the NEA for Bristol.
11:45am	Crew decon'd out.
12:00pm	Lunch.
12:45pm	Crew dons PPE and continues the lead removal in structure 6.
6:30pm	Lead removal is complete in structure 6. Cleaned up site and secured work area.
6:45pm	Crew decon'd out.
7:00pm	Off site for the day.

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/03/11
Project No: 10651
Daily Report #: 2

1. ACM DISPOSABLE BAGS GENERATED TODAY:

7 bags with CAB, 1 bag TSI pipe insulation, 5 pieces of wrapped transite pipe.

2. INSPECTION (s) PERFORMED:

None.

3. AIR MONITORING PERFORMED DURING ABATEMENT:

Personal sampling was done for the ACM removal and the LCM removal.

4. CHANGES, DIRECTIVES AND/OR INSTRUCTIONS RECEIVED OR GIVEN:

None.

5. REMARKS:

None.

6. JOB SAFETY EVALUATION:

Good.

7. CONTRACTOR'S VERIFICATION:

The above report is complete and correct, and all material and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above.

Project Supervisor: 08/03/11 / 
Date

Satori Group, Inc.
1310 E. 66th Avenue, Suite 2
Anchorage, AK 99518

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

DAILY SAFETY MEETING

Competent Person: Phil Roberson **Date:** 8-3-11

Satori Project No.: 10651 **Project Name:** NE Cape Fish Camp NALEMP

Project Location: St. Lawrence Island

MEETING ATTENDEES:

	Name (Print)	Signature	Company
1.	Phillip Roberson	Phillip Roberson	Satori
2.	Basheer Khamis		Satori
3.	Cole Carutti	Cole Carutti	Satori group
4.	Tyler Ellingboe	Tyler Ellingboe	Bristol Environmental
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

BRIEF DISCUSSION OUTLINE:
Nail's, Slips, Trips, falls, Sharp Metals, Weather

ATTENDEES' SAFETY CONCERNS / OBSERVATIONS:

SAFETY RECOMMENDATIONS / ACTIONS TAKEN:
Just watch where you are walking.

NEW TASKS IDENTIFIED REQUIRING HAZARD ASSESSMENT:

Satori Group, Inc.
1310 E. 66th Avenue, Suite 2
Anchorage, AK 99518

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

REGULATED ACM AREA SIGN IN/OUT SHEET

Project Name: NE Cape Fish Camp NALEMP
Location: St. Lawrence Island
Competent Person: Phil Roberson

Project: 10651
Date: 8-3-11

Print Name	Signature	Cert.#	SSN	Time In / Out		PPE Used
Phillip Roberson		4436	265-55-0874	In: 805	In: 1250	North ½ face Tyvek
				Out: 1145	Out: 638	
Cole Cerutti		20061136	-3789-	In: 805	In: 1252	North ½ face Tyvek
				Out: 1146	Out: 640	
Bachver Khamis		20090838	-1659-	In: 810a	In: 1253	North ½ face Tyvek
				Out: 1149	Out: 645p	
				In:	In:	
				Out:	Out:	
				In:	In:	
				Out:	Out:	
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www.gosatori.com

WORK AREA PREPARATION AND DAILY SITE INSPECTION CHECKLIST

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/04/11
Project No: 10651
Daily Report #: 3

Asbestos ☐ **Lead** ☑ **Other** ☐

WORK AREA PREPARATION PROCEDURES	Completed	N/A
1. EPA/DOL Notifications Current & Posted	☑	☐
2. Notice and Job Board Complete and Displayed	☑	☐
3. Supervisor's Handbook and Project Log Book	☑	☐
4. Post Danger Asbestos/Warning Lead Signs	☑	☐
5. Secure the Area	☑	☐
6. Shut Down the HVAC	☐	☑
7. Clean and Remove Furniture and Fixtures	☑	☐
8. Seal Stationary Items	☑	☐
9. Tape and Seal Windows, Vents and All Critical Openings	☑	☐
10. Cover the Floor and Walls with Polyethylene	☑	☐
11. Secure the Electrical System	☐	☑
12. Establish Decontamination Unit(s)	☑	☐
13. Establish Waste Load Out Unit	☑	☐
14. Establish Negative Pressure in Area	☐	☑
15. Notify Other Building Occupants	☐	☑
16. Establish Break/Lunch Area	☑	☐

DAILY SITE INSPECTION	Completed	N/A
1. Barriers and Enclosure	☑	☐
2. Negative Air System – Being monitored and working properly	☐	☑
3. Demarcation Signs	☑	☐
4. Work Area Clean	☑	☐
5. Protective Equipment	☑	☐
6. Have all workers sign Regulated Sign In/Out Sheet	☑	☐
7. Decon Unit – Being monitored and work properly	☑	☐
8. Electrical System Used – GFCI's	☑	☐
9. Load Out Area – Secured	☑	☐
10. Storage Area – Secured	☑	☐
11. Work Practices Reviewed and Discussed with Crew	☑	☐
12. Safety Meeting Held	☑	☐
13. Equipment Needed List	☑	☐
14. Air Monitoring Results Posted	☑	☐
15. Morning/End of Shift – Water On/Off	☑	☐
16. First Aid Supplies – Available and Stocked	☑	☐

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

DAILY FIELD REPORT

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/04/11
Project No: 10651
Daily Report #: 3

1. WORK ACTIVITIES PERFORMED TODAY:

7:00am	On site, attended daily safety meeting.
7:30am	Crew in PPE, egan removal of lead containing materials in Structure 8.
11:45am	Crew decon'd out.
12:00pm	Lunch.
12:45pm	Crew donned PPE and continued lead removal in structure 8.
6:30pm	Lead removal completed in structure 8. Performed site clean up and secured work area.
6:45pm	Crew decon'd out.
7pm	Off site for the day.

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/04/11
Project No: 10651
Daily Report #: 3

1. ACM DISPOSABLE BAGS GENERATED TODAY:

None.

2. INSPECTION (s) PERFORMED:

Performed a visual on the work areas where ACM and LCM were removed per contract.

3. AIR MONITORING PERFORMED DURING ABATEMENT:

Personal sampling was performed during the LCM removal.

4. CHANGES, DIRECTIVES AND/OR INSTRUCTIONS RECEIVED OR GIVEN:

None.

5. REMARKS:

None.

6. JOB SAFETY EVALUATION:

Good.

7. CONTRACTOR'S VERIFICATION:

The above report is complete and correct, and all material and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above.

Project Supervisor: 08/04/11 / 
Date

Satori Group, Inc.
1310 E. 66th Avenue, Suite 2
Anchorage, AK 99518



Phone: 907-332-0456
Fax: 907-332-0457
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DAILY SAFETY MEETING

Competent Person: Phil Roberson **Date:** 08/04/11

Satori Project No.: 10651 **Project Name:** NE Cape Fish Camp NALEMP

Project Location: St. Lawrence Island

MEETING ATTENDEES:

	Name (Print)	Signature	Company
1.			
2.			
3. 4. 5. 6.	See Bristol Environmental Remediation Services' Daily Safety Meeting Sign-In Sheets for Satori attendee's names & signatures.		
7.			
8.			
9.			
10.			
11.			
12.			

BRIEF DISCUSSION OUTLINE:

ATTENDEES' SAFETY CONCERNS / OBSERVATIONS:

SAFETY RECOMMENDATIONS / ACTIONS TAKEN:

NEW TASKS IDENTIFIED REQUIRING HAZARD ASSESSMENT:

Satori Group, Inc.
1310 E. 66th Avenue, Suite 2
Anchorage, AK 99518

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

REGULATED ACM AREA SIGN IN/OUT SHEET

Project Name: NE Cape Fish Camp NALEMP **Project:** 10651
Location: St. Lawrence Island **Date:** 8-4-11
Competent Person: Phil Roberson

Print Name	Signature	Cert.#	SSN	Time In / Out		PPE Used
Phillip Roberson		4486	0874	In: 740	In: 1245	North ½ face Resp Typek
				Out: 1150	Out: 640	
Cole Cerutti		20061136	3789	In: 741	In: 1243	
				Out: 1146	Out: 645	north face / tyvek
Bashier Khamis		20090838	1659	In: 743	In: 1240	
				Out: 1153	Out: 650	North ½ face / Tyvek
				In:	In:	
				Out:	Out:	
				In:	In:	
				Out:	Out:	
				In:	In:	
				Out:	Out:	
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				In:	In:	
				Out:	Out:	

1310 E 66th Ave, Suite 2
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WORK AREA PREPARATION AND DAILY SITE INSPECTION CHECKLIST

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/05/11
Project No: 10651
Daily Report #: 4

Asbestos ☐ **Lead** ☐ **Other** ☑

WORK AREA PREPARATION PROCEDURES	Completed	N/A
1. EPA/DOL Notifications Current & Posted	☐	☑
2. Notice and Job Board Complete and Displayed	☐	☑
3. Supervisor's Handbook and Project Log Book	☐	☑
4. Post Danger Asbestos/Warning Lead Signs	☐	☑
5. Secure the Area	☐	☑
6. Shut Down the HVAC	☐	☑
7. Clean and Remove Furniture and Fixtures	☐	☑
8. Seal Stationary Items	☐	☑
9. Tape and Seal Windows, Vents and All Critical Openings	☐	☑
10. Cover the Floor and Walls with Polyethylene	☐	☑
11. Secure the Electrical System	☐	☑
12. Establish Decontamination Unit(s)	☐	☑
13. Establish Waste Load Out Unit	☐	☑
14. Establish Negative Pressure in Area	☐	☑
15. Notify Other Building Occupants	☐	☑
16. Establish Break/Lunch Area	☐	☑

DAILY SITE INSPECTION	Completed	N/A
1. Barriers and Enclosure	☐	☑
2. Negative Air System – Being monitored and working properly	☐	☑
3. Demarcation Signs	☑	☐
4. Work Area Clean	☑	☐
5. Protective Equipment	☑	☐
6. Have all workers sign Regulated Sign In/Out Sheet	☐	☑
7. Decon Unit – Being monitored and work properly	☐	☑
8. Electrical System Used – GFCI's	☐	☑
9. Load Out Area – Secured	☐	☑
10. Storage Area – Secured	☐	☑
11. Work Practices Reviewed and Discussed with Crew	☐	☑
12. Safety Meeting Held	☐	☑
13. Equipment Needed List	☐	☑
14. Air Monitoring Results Posted	☐	☑
15. Morning/End of Shift – Water On/Off	☐	☑
16. First Aid Supplies – Available and Stocked	☐	☑

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
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DAILY FIELD REPORT

Competent Person: Phil Roberson
Project Name: NE Cape Fish Camp NALEMP
Project Location: St. Lawrence Island, AK

Date: 08/05/11
Project No: 10651
Daily Report #: 4

1. WORK ACTIVITIES PERFORMED TODAY:

7:00am	On site, attended daily safety meeting.
7:30am	Conducted final walk-through of work site, confirming all ACM was removed, demob'd equipment.
11am	All equipment is now off site and walk-through complete. Satori's portion of this project is complete. Left site for the final time.

1310 E 66th Ave, Suite 2
Anchorage, AK 99518
info@gosatori.com

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

Competent Person: Phil Roberson
Date: 08/05/11
Project Name: NE Cape Fish Camp NALEMP
Project No: 10651
Project Location: St. Lawrence Island, AK
Daily Report #: 4

1. ACM DISPOSABLE BAGS GENERATED TODAY:

None.

2. INSPECTION (s) PERFORMED:

None.

3. AIR MONITORING PERFORMED DURING ABATEMENT:

None.

4. CHANGES, DIRECTIVES AND/OR INSTRUCTIONS RECEIVED OR GIVEN:

None.

5. REMARKS:

None.

6. JOB SAFETY EVALUATION:

Good.

7. CONTRACTOR'S VERIFICATION:

The above report is complete and correct, and all material and equipment used and work performed during this reporting period are in compliance with the contract plans and specifications except as noted above.

Project Supervisor: 08/05/11 / 
Date

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Anchorage, AK 99518

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Fax: 907-332-0457
www.gosatori.com

DAILY SAFETY MEETING

Competent Person: Phil Roberson **Date:** 08/05/11

Satori Project No.: 10651 **Project Name:** NE Cape Fish Camp NALEMP

Project Location: St. Lawrence Island

MEETING ATTENDEES:

	Name (Print)	Signature	Company
1.			
2.			
3.	See Bristol Environmental Remediation Services' Daily Safety Meeting Sign-In Sheets for Satori attendee's names & signatures.		
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			

BRIEF DISCUSSION OUTLINE:

ATTENDEES' SAFETY CONCERNS / OBSERVATIONS:

SAFETY RECOMMENDATIONS / ACTIONS TAKEN:

NEW TASKS IDENTIFIED REQUIRING HAZARD ASSESSMENT:

Section C - Lab Report

NEGATIVE INITIAL DETERMINATION (NID)

NALEMP REMOVAL ACTION COOPERTIVE AGREEMENT
ST. LAWRENCE ISLAND, ALASKA

PREPARED FOR:

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, LLC.
111 W 16TH AVE, THIRD FLOOR
ANCHORAGE, AK 99501-5109

PREPARED BY:

Satori Group, Inc.
1310 E. 66th Ave., #2
Anchorage, AK 99518
Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

AUGUST 2011

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY....1
2.0 INTRODUCTION....2
3.0 OPERATIONS CONDUCTED ON SITE....2
4.0 PPE AND HYGIENE FACILITIES. 2
5.0 LEAD SAMPLE ANALYSIS....3
6.0 RESULTS....3
APPENDIX A: AIR MONITORING REPORTS....4

1.0 EXECUTIVE SUMMARY

Satori Group was contracted to perform Lead Removal and Industrial Hygiene services to support work on the NALEMP Removal Action Cooperative Agreement Project.

Lead Based Paint work performed to date includes the following tasks:

1. Removal of LBP containing materials from existing structures.
2. Clean up of LBP containing materials from site.

Review of air monitoring results collected to date, for all LBP work performed under this contract, has shown that the Permissible Exposure Level (PEL) for airborne Lead has not been exceeded.

2.0 INTRODUCTION

The purpose of this report is for documentation of exposure e levels of airborne lead dust during work performed by Satori Group, Inc. during the NALEMP Removal Action Cooperative Agreement located at NE Cape St. Lawrence Island, AK.

Pursuant to 29 CFR 1926.62 (d)(5), Negative Initial Determination: For any one specific job which will be performed by employees who have been trained in compliance with the standard, the employer may demonstrate that employee exposures will be below the Permissible Exposure Limits (PELs) by data which conform to the following criteria;

(5) Where a determination, conducted under paragraphs (d) (1), (2), and (3) of this section is made that no employee is exposed to airborne concentrations of lead at or above the action level the employer shall make a written record of such determination. The record shall include at least the information specified in paragraph (d) (3)(i) of this section and shall also include the date of determination, location within the worksite, and the name and social security number of each employee monitored

(6) Frequency (i) If the initial determination reveals employee exposure to be below the action level further exposure determination need not be repeated except as otherwise provided in paragraph (d) (7) of this section.

(7) Whenever there has been a change of equipment, process, control, personnel or a new task has been initiated that may result in additional employees action level or may result in employees already exposed at or above the action level being exposed above the PEL, the employer shall conduct additional monitoring in accordance with this paragraph.

3.0 OPERATIONS CONDUCTED ON SITE

The operations performed on site that may disturb lead based paint containing materials include the following:

a. Removal of LBP containing materials from existing structures.
b. Clean up of LBP containing materials from site

4.0 PPE AND HYGIENE FACILITIES.

PPE worn on site during sampling included the following:

a. Respiratory Protection – All work will be performed utilizing approved USACE PPE for the project.

b. Eye Protection – Safety glasses, goggles or face shield will be utilized for all disturbance work. If full-face respirators are used this will be deemed adequate eye protection.

c. Protective Clothing – Approved PPE in accordance with USACE project submittals.

5.0 LEAD SAMPLE ANALYSIS

Samples were sent to White Environmental Consultants (WEC) for analysis by Flame Atomic Adsorption (FAA). Samples were analyzed by NIOSH 7802 method. Results are located in Appendix A for review.

6.0 RESULTS

Results of initial exposure air monitoring and observations gathered by Satori Group, Inc. indicate removal practices combined with engineering controls for this project are highly unlikely to exceed the PEL for employee exposures. Air sampling data used for documenting this NID was collected on Aug 4-5, 2011. Samples were collected from the workers breathing zone, 6-9 inch radius of the worker's nose and mouth where the highest possible exposure scenarios exist.

LBP materials released amounts of airborne particulates at or below <1.0 µg/m^3. Since Satori Group, Inc. will continue to utilize similar work practices, dust counts should not exceed either the Action limit of 30 µg/m^3 or the PEL of 50 µg/m^3 for the remaining work.

This NID was developed by judicious sampling of workers and area samples likely to yield the highest concentrations of airborne dust particulates during disturbance work. The method of analysis was the NIOSH 7802 Method.

If you have any questions regarding this NID, please do not hesitate to call.

Sincerely,

Alan Caldwell IH, CHST
Program Manager

APPENDIX A: AIR MONITORING REPORTS

WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I St., Suite 203, Anchorage, AK 99501-
(907) 258-8661
FAX: (907) 258-8662

NVLAP®
Lab Code: 200124-0

Lead Air Analysis

WEC Project #: 11G-564
Client Project#: 10651

Report #: 82081
Report By: C.Blanchard
Report Date: 8/10/2011

Client: Satori Group
1310 E. 66th Avenue, Ste 2
Anchorage, Alaska 99518

TAT: 24 Hour **# Samples:** 1

Collection By: CLIENT
Collection Date: 8/4/2011
Received By: Hicklin
Received Date: 8/9/2011
Analysis By: J.Hicklin
Analysis Date: 8/10/2011

Project Name/Location: St. Lawrence

Client ID #	WEC ID #	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
10651-05	AL11-1776	Personal	<1	ug/M3	1

Joel Hicklin, Lab Analyst

Date 11/4/2011

Date 11/4/2011

Analysis performed by flame atomic absorption spectroscopy, analytical method NIOSH 7082. The Reporting Limit is twice that of the Method Detection Limit (MDL) which is the minimum concentration of analyte that can be reported with 99% confidence that the analyte's concentration is greater than zero, and is determined from statistical analysis of replicate samples in a given matrix containing the analyte as defined in 40CFR Part 136, Appendix B. Any modifications that have been made to the previously referenced test methods are documented in WEC Inc.'s Standard Operating Procedures Manual. Supporting Laboratory Documentation is available upon request. WEC is a current proficient participant in the AIHA ELPAT program (Lab ID# 102739). Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).

WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I St., Suite 203, Anchorage, AK 99501-
(907) 258-8661
FAX: (907) 258-8662

NVLAP®
Lab Code: 200124-0

Lead Air Analysis

WEC Project #: 11G-564
Client Project#: 10651

Report #: 82082
Report By: C.Blanchard
Report Date: 8/10/2011

Client: Satori Group
1310 E. 66th Avenue, Ste 2
Anchorage, Alaska 99518

TAT: 24 Hour **# Samples:** 1

Collection By: CLIENT
Collection Date: 8/4/2011
Received By: Hicklin
Received Date: 8/9/2011
Analysis By: J.Hicklin
Analysis Date: 8/10/2011

Project Name/Location: St. Lawrence

Client ID #	WEC ID #	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
10651-08	AL11-1777	Personal	<1	ug/M3	1

Worker TWA

Worker	*Sample Date*	*SSN #*	*PPE*	*TWA*
Not Specified	04-Aug-11	n/a	Not noted	1

Joel Hicklin, Lab Analyst

Date 11/4/2011

Date 11/4/2011

Analysis performed by flame atomic absorption spectroscopy, analytical method NIOSH 7082. The Reporting Limit is twice that of the Method Detection Limit (MDL) which is the minimum concentration of analyte that can be reported with 99% confidence that the analyte's concentration is greater than zero, and is determined from statistical analysis of replicate samples in a given matrix containing the analyte as defined in 40CFR Part 136, Appendix B. Any modifications that have been made to the previously referenced test methods are documented in WEC Inc.'s Standard Operating Procedures Manual. Supporting Laboratory Documentation is available upon request. WEC is a current proficient participant in the AIHA ELPAT program (Lab ID# 102739). Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).

WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I Street, Suite 203, Anchorage, AK 99501 Phone (907) 258-8661 Fax (907) 258-8662
4868 Old Airport Way, Fairbanks, AK 99701 Phone (907) 456-4637 Fax (907) 456-4638

8-9-11

CHAIN OF CUSTODY

Date: 8-9-11

Client Name: Integri Group Project Name: F. Lawrence Project #: 10651

Billing Address: 1310 E 66th Ave City: Anch State: AK Zip Code: 99518

Phone: 332 0456 Fax: 332 0457 Cell:

Email: jlucas@gosatori.com

By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.

Samples Relinquished By: Date: 8-9-11 Time: 1000

Samples Received By: J Hicklin Date: 8-9-11 Time: 12PM

Samples Relinquished By: Date: Time:

Samples Received By: Date: Time:

Samples Analysis Type: PCM PLM TEM (LEAD) TCLP Other (specify)

Composite: Y N FLAME AA

Turn-around Time: 6 HR RUSH (24HR) 48HR 72HR 5DAY

Method of Payment: CASH CHECK CREDIT CARD ACCOUNT

Sample #	Collection Date	Sample Condition	Turnaround Time	Analysis Type	Volume (L) Air Samples	Time (min) Air Samples	Flow Rate Samples	A/R
10651-08	8-4-11		24 hr		1140	570	2.0	
10651-05	8-3-11		24 hr		1020	510	2.0	

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

Revision Date: March 1, 2011 SRS

WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I St., Suite 203, Anchorage, AK 99501-
(907) 258-8661
FAX: (907) 258-8662

NVLAP® Lab Code: 200124-0

Lead Air Analysis

WEC Project #: 11G-784
Client Project#:

Report #: 83629
Report By: K.Lynch
Report Date: 10/20/2011

Client: Satori Group
1310 E. 66th Avenue, Ste 2
Anchorage, Alaska 99518

TAT: RUSH **# Samples:** 4

Collection By: CLIENT
Collection Date: 8/3/2011
Received By: Williams
Received Date: 10/20/2011
Analysis By: J.Hicklin
Analysis Date: 10/20/2011

Project Name/Location: NE Cape

Client ID #	WEC ID #	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
FB01	AL11-2318	Not Specified	<1	ug/M3	1
FB02	AL11-2319	Not Specified	<1	ug/M3	1
FB03	AL11-2320	Not Specified	<1	ug/M3	1
FB04	AL11-2321	Not Specified	<1	ug/M3	1

Joel Hicklin, Lab Analyst — Date 10/20/2011

Cody Williams — Date 10/20/2011

Analysis performed by flame atomic absorption spectroscopy, analytical method NIOSH 7082. The Reporting Limit is twice that of the Method Detection Limit (MDL) which is the minimum concentration of analyte that can be reported with 99% confidence that the analyte's concentration is greater than zero, and is determined from statistical analysis of replicate samples in a given matrix containing the analyte as defined in 40CFR Part 136, Appendix B. Any modifications that have been made to the previously referenced test methods are documented in WEC Inc.'s Standard Operating Procedures Manual. Supporting Laboratory Documentation is available upon request. WEC is a current proficient participant in the AIHA ELPAT program (Lab ID# 102739). Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).

WHITE ENVIRONMENTAL CONSULTANTS INC.
731 I Street, Suite 203, Anchorage, AK 99501 Phone (907) 258-8661 Fax (907) 258-8662
4868 Old Airport Way, Fairbanks, AK 99701 Phone (907) 456-4637 Fax (907) 456-4638

CHAIN OF CUSTODY

Date: 10/20/11

Client Name: Savoi Group Project Name: NE Cape Project #: _____

Billing Address: 1310 E 66th Ave City: Anchorage State: AK Zip Code: 99518

Phone: 907-3320456 Fax: _____ Cell: _____

Email: acalder1@gosavoi.com

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By: _____ Date: 10/20/11 Time: 9:00AM

Samples Received By: K Lynch Date: 10/20/11 Time: 0900

Samples Relinquished By: _____ Date: _____ Time: _____

Samples Received By: _____ Date: _____ Time: _____

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP Other (specify)**

Composite: **Y (N)**

Turn-around Time: **(6 HR RUSH) 24HR 48HR 72HR 5DAY** Will call today w/payment

Method of Payment: **CASH CHECK (CREDIT CARD) ACCOUNT**

Sample #	Collection Date	Sample Condition	Turnaround Time	Analysis Type	Volume (L) Air Samples	Time (min) Air Samples	Flow Rate Samples	A/R
FB01	8/3/11	Good	Rush	AAS	✓	✓	✓	
FB02	8/3/11	↓	↓	↓	✓	✓	✓	
FB03	8/4/11				✓	✓	✓	
FB04	8/4/11				✓	✓	✓	

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

Revision Date: March 1, 2011 SRS

Section D - Visual Inspection

Satori Group, Inc.
1310 E. 66th Avenue, Suite 2
Anchorage, AK 99518

Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

Visual Inspection

LOCATION:

Business / Residence: . Fish Camp

Address: . St. Lawrence Island

City: 0 State: 0 Zip: .

Room(s) or Units Involved: .

Visual Inspection Date: 8-5-11

Project Name: NE Cape Fish Camp NALEMP

Satori Project No.: 107651

Client: Bristol Environmental

In accordance with the procedures specified in Satori Group's Work Plan and this contract, Satori Group hereby certifies that the asbestos containing material has been thoroughly abated and a confirmation visual inspection performed. Asbestos Containing Materials (ACM) were abated in accordance with applicable 40 CFR (EPA) and 29 CFR (OSHA) regulations by certified Alaska asbestos abatement workers prior to commencing demolition.

By: _____

Phil Roberson
Satori Group, Inc.

Section E - Photographs

NALEMP Removal Action Cooperative Agreement
August 2011









1310 E. 66th Avenue, Ste. 2 ~ Anchorage, AK 99518 ~ Ph 907.332.0456 Fax 907.332.0457
www.gosatori.com

NALEMP Removal Action Cooperative Agreement
August 2011









1310 E. 66th Avenue, Ste. 2 ~ Anchorage, AK 99518 ~ Ph 907.332.0456 Fax 907.332.0457
www.gosatori.com

NALEMP Removal Action Cooperative Agreement
August 2011









1310 E. 66th Avenue, Ste. 2 ~ Anchorage, AK 99518 ~ Ph 907.332.0456 Fax 907.332.0457
www.gosatori.com

SATORI SECOND NID REPORT

NEGATIVE INITIAL DETERMINATION (NID)

NALEMP REMOVAL ACTION COOPERTIVE AGREEMENT
ST. LAWRENCE ISLAND, ALASKA

PREPARED FOR:

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

BRISTOL ENVIRONMENTAL REMEDIATION SERVICES, LLC.
111 W 16TH AVE, THIRD FLOOR
ANCHORAGE, AK 99501-5109

PREPARED BY:

Satori Group, Inc.
1310 E. 66th Ave., #2
Anchorage, AK 99518
Phone: 907-332-0456
Fax: 907-332-0457
www.gosatori.com

SEPTEMBER 2011

TABLE OF CONTENTS

1.0 EXECUTIVE SUMMARY....1
2.0 INTRODUCTION....2
3.0 OPERATIONS CONDUCTED ON SITE....2
4.0 PPE AND HYGIENE FACILITIES. 2
5.0 RESULTS....3
APPENDIX A: AIR MONITORING REPORTS....4

1.0 EXECUTIVE SUMMARY

Satori Group was contracted to perform Industrial Hygiene services during activities involving LBP removal to support work on the NALEMP Removal Action Cooperative Agreement Project.

Lead Based Paint work performed to date includes the following tasks:

1. Removal of LBP containing materials from existing structures.
2. Clean up of LBP containing materials from site.

Review of air monitoring results collected to date, for all LBP work performed under this contract, has shown that the Permissible Exposure Level (PEL) for airborne Lead has not been exceeded.

2.0 INTRODUCTION

The purpose of this report is for documentation of exposure e levels of airborne lead dust during work performed by Bristol Environmental Services during the NALEMP Removal Action Cooperative Agreement located at NE Cape St. Lawrence Island, AK.

Pursuant to 29 CFR 1926.62 (d)(5), Negative Initial Determination: For any one specific job which will be performed by employees who have been trained in compliance with the standard, the employer may demonstrate that employee exposures will be below the Permissible Exposure Limits (PELs) by data which conform to the following criteria;

(5) Where a determination, conducted under paragraphs (d) (1), (2), and (3) of this section is made that no employee is exposed to airborne concentrations of lead at or above the action level the employer shall make a written record of such determination. The record shall include at least the information specified in paragraph (d) (3)(i) of this section and shall also include the date of determination, location within the worksite, and the name and social security number of each employee monitored

(6) Frequency (i) If the initial determination reveals employee exposure to be below the action level further exposure determination need not be repeated except as otherwise provided in paragraph (d) (7) of this section.

(7) Whenever there has been a change of equipment, process, control, personnel or a new task has been initiated that may result in additional employees action level or may result in employees already exposed at or above the action level being exposed above the PEL, the employer shall conduct additional monitoring in accordance with this paragraph.

3.0 OPERATIONS CONDUCTED ON SITE

The operations performed on site that may disturb lead based paint containing materials include the following:

a. Removal of LBP containing materials from existing structures.
b. Clean up of LBP containing materials from site

4.0 PPE AND HYGIENE FACILITIES.

PPE worn on site during sampling included the following:

a. Respiratory Protection – All work will be performed utilizing approved USACE PPE for the project.

b. Eye Protection – Safety glasses, goggles or face shield will be utilized for all disturbance work. If full-face respirators are used this will be deemed adequate eye protection.

c. Protective Clothing – Approved PPE in accordance with USACE project submittals.

5.0 RESULTS

Results of initial exposure air monitoring and observations gathered by Satori Group, Inc. indicate removal practices combined with engineering controls for this project are highly unlikely to exceed the PEL for employee exposures. Air sampling data used for documenting this NID was collected on Sept. 1-2, 2011. Samples were collected from the workers breathing zone, 6-9 inch radius of the worker's nose and mouth where the highest possible exposure scenarios exist.

LBP materials released amounts of airborne particulates at or below <3.5 µg/m^3. Since Bristol Environmental will continue to utilize similar work practices, dust counts should not exceed either the Action limit of 30 µg/m^3 or the PEL of 50 µg/m^3 for the remaining work.

This NID was developed by judicious sampling of workers and area samples likely to yield the highest concentrations of airborne dust particulates during disturbance work. The method of analysis was the NIOSH 7802 Method.

If you have any questions regarding this NID, please do not hesitate to call.

Sincerely,

Alan Caldwell IH, CHST
Program Manager

APPENDIX A: AIR MONITORING REPORTS

Daily Inspection Report

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

Report Date 9/1/2011

Satori Group Job_No 10768

Project Name NE Cape Lead Sampling

Project Manager Alan Caldwell

Client Bristol Remediation Services

Satori Group Inspe Phil Roberson

Client Contact Tyler Ellingboe

	Morning	Afternoon	Inspector hours
Start			
Stop			

On-Site Manager Alan Caldwell

Client Project #

Contractor Information

Contractor Bristol Environmental

Foreman Phil Roberson

111 W 16th Ave 3rd Floor
Anchorage, AK 99501

Contractor Phone 907-563-0013

Contractor Fax 907-563-6713

Scope of Work

Shift: Day

☐ Mobilization ☐ Bulk Removal ☐ Final Visual ☐ Other (See below)
☐ Pre-Cleaning ☐ Detailing ☐ Clear. Inspection
☐ Setup ☐ Bag-out ☐ Tear Down / De-mob

Work Area: NE Fish camp

Notable Occurrences

Description

Work began at 7:30 AM PPE on for day was Rain Gear, Gloves, Dust mask, Hard hat, and steel toe boots. The weather was overcast with light rain. Wind of about 20 mph. The temperature was about 45 F. 2 personal samples were taken for the day for entire work shift.

Sample Summary

Sample Collected: PCM ____ TEM ____ PLM ____

LEAD AIR 4 LEAD WIPE ____ TCLP ____ OTHER ____

☐ Passed - proceed ☐ Need repairs - proceed ☐ FAILED ☐ Other...
☐ Adequate - proceed ☐ Inadequate - need reinspection ☐ Retest

Recorded By

Phil Roberson / Cert#

Contractor Signature

Phil Roberson 9/1/2011

As a company representative, I aknowledge and authorize the above work and subcontractor hours

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

AIR MONITORING DATA SHEET FOR LEAD

Project Name: NE Cape Lead Sampling
Client Name: Bristol Remediation Services
Project #: 10768
Client Project Number:
Sampled By: Phil Roberson
Sampled Date: 9/2/2011
Analyzed By: Alan Caldwell
Date Analyzed: 9/9/2011

Review Comments:

Sample ID	10768-01	Location	Breathing Sample inside breathing zone			TWA = 3.500	ug/m3		
Sample Type	B	Work Methods Performed	LBP remediation			temp. am/pm/avg.	70 / 70 / 70		
Protection	H	Worker Name	Nichola Toolie	Cert #		SS#			
Decon	DBS	Time Start	7:21 AM	Flow Start	2.0				
Environment	C	Stop	4:53 PM	Stop	2.0				
Pump #	LV 5	Total Minutes	572	No. of samples included	1	Liters	1,144.0	< 3.5	ug/m3
Rotometer ID	LV 1								
Sample ID	10768-02	Location	Breathing Sample inside breathing zone			TWA = 3.500	ug/m3		
Sample Type	B	Work Methods Performed	LBP Remediation			temp. am/pm/avg.	70 / 70 / 70		
Protection	H	Worker Name	Jess Reynolds	Cert #		SS#			
Decon	DBS	Time Start	7:21 AM	Flow Start	2.0				
Environment	C	Stop	4:53 PM	Stop	2.0				
Pump #	LV 4	Total Minutes	572	No. of samples included	1	Liters	1,144.0	< 3.5	ug/m3
Rotometer ID	LV 1								
Sample ID	10768-03	Location	Field Blank						
Sample Type	BL	Work Methods Performed	Field Blank			temp. am/pm/avg.			
Protection									
Decon		Time Start		Flow Start					
Environment		Stop		Stop					
Pump #		Total Minutes		No. of samples included	1	Liters		< 4	ug/m3
Rotometer ID									
Sample ID	10768-04	Location	Field Blank						
Sample Type	BL	Work Methods Performed	Field Blank			temp. am/pm/avg.			
Protection									
Decon		Time Start		Flow Start					
Environment		Stop		Stop					
Pump #		Total Minutes		No. of samples included	1	Liters		< 4	ug/m3
Rotometer ID									

SAMPLES TYPES		RESPIRATORY PROTECTION	DECONTAMINATION	ENVIRONMENTAL
B - Breathing Zone	CL - Clearance	PD - Pressure Demand	DS - Decon w/Shower	H - HEPA Vacuum
STEL - Excursion	XCL - Aggressive Clearance	CF - Continuous Flow	H - HEPA Vacuum	N - Negative Pressure Enclosure
I - Inside Work Area	PRE - Pre-Abatement	BH - Blasting Hood	DBS - Double Suit	G - Glovebag
N - Neg. Air Exhaust	O - Outside Work Area	F - Full Face Negative Pressure		NPG - Neg. Pressure Glovebag
	BL - Field Blank	H - Half Face Negative Pressure		M - Mini Containment
		PAPR - Powered Air Purifying		C - Controlled Area
		S - Supply Air		O - Outdoors

Personal Air Samples

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

Date 9/1/2011
Project Name NE Cape Lead Sampling

Project Number 10768
Work Area Name NE Fish camp

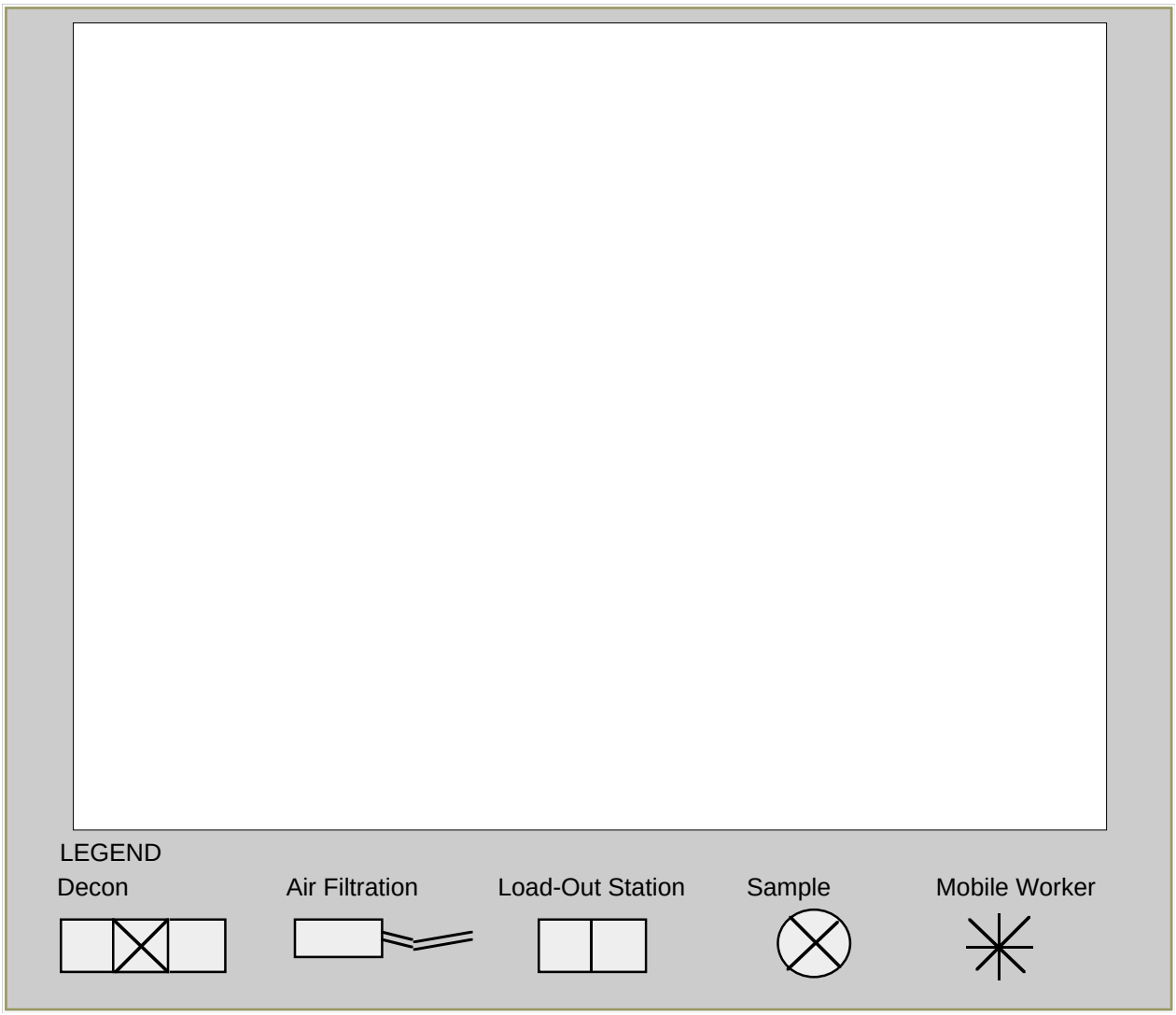
Worker/ Grouping ID	Sample No.	Type	Time(min)	Result	Units
Jess Reynolds			8 hour TWA:	**3.500**	
Cert#					
	10768-02	B	572	< 3.5	ug/m3
Nichola Toolie			8 hour TWA:	**3.500**	
Cert#					
	10768-01	B	572	< 3.5	ug/m3

Sample Types: STEL - Excursion, B - Breathing zone

Air Sample Locations

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

Project Name NE Cape Lead Sampling Date 9/1/2011



Sample No.	Sample Type	Results
10768-01	Breathing Zone	< 3.5
10768-02	Breathing Zone	< 3.5
10768-03	Field Blank	< 4
10768-04	Field Blank	< 4

Daily Inspection Report

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

Report Date 9/2/2011

Satori Group Job_No 10768

Project Name NE Cape Lead Sampling

Project Manager Alan Caldwell

Client Bristol Remediation Services

Satori Group Inspe Phil Roberson

Client Contact Tyler Ellingboe

	Morning	Afternoon	Inspector hours
Start			
Stop			

On-Site Manager Alan Caldwell

Client Project #

Contractor Information

Contractor Bristol Environmental

Foreman Phil Roberson

111 W 16th Ave 3rd Floor
Anchorage, AK 99501

Contractor Phone 907-563-0013

Contractor Fax 907-563-6713

Scope of Work

Shift: Day

☐ Mobilization ☐ Bulk Removal ☐ Final Visual ☐ Other (See below)
☐ Pre-Cleaning ☐ Detailing ☐ Clear. Inspection
☐ Setup ☐ Bag-out ☐ Tear Down / De-mob

Work Area: NE Fish camp

Notable Occurrences

Description

Work began at 7:30 AM PPE on for day was Rain Gear, Gloves, Dust mask, Hard hat, and steel toe boots. The weather was overcast with light rain. Wind of about 15 mph. The temperature was about 45 F. 2 personal samples were taken for the day for entire work shift.

Sample Summary

Sample Collected: PCM ____ TEM ____ PLM ____

LEAD AIR 4 LEAD WIPE ____ TCLP ____ OTHER ____

☐ Passed - proceed ☐ Need repairs - proceed ☐ FAILED ☐ Other...
☐ Adequate - proceed ☐ Inadequate - need reinspection ☐ Retest

Recorded By

Phil Roberson / Cert#

Contractor Signature

Phil Roberson 9/2/2011

As a company representative, I aknowledge and authorize the above work and subcontractor hours

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

AIR MONITORING DATA SHEET FOR LEAD

Project Name: NE Cape Lead Sampling
Client Name: Bristol Remediation Services
Project #: 10768
Client Project Number:
Sampled By: Phil Roberson
Sampled Date: 9/2/2011
Analyzed By: Alan Caldwell
Date Analyzed: 9/9/2011

Review Comments:

Sample ID	10768-05	Location	Breathing Sample inside breathing zone			TWA = 0.000			
Sample Type	B	Work Methods Performed	LBP Remediation			temp. am/pm/avg.	45 / 45 / 45		
Protection	H	Worker Name	Albert Kulowiyi	Cert #		SS#			
Decon	DBS	Time Start	7:26 AM	Flow Start	2.0				
Environment	C	Stop	4:52 PM	Stop	2.0				
Pump #	LV 5	Total Minutes	566	No. of samples included	1	Liters	1,132.0		0
Rotometer ID	LV 1								
Sample ID	10768-06	Location	Breathing Sample inside breathing zone			TWA = 0.000			
Sample Type	B	Work Methods Performed	LBP Remediation			temp. am/pm/avg.	45 / 45 / 45		
Protection	H	Worker Name	Elmer Rookok	Cert #		SS#			
Decon	DBS	Time Start	7:24 AM	Flow Start	2.0				
Environment	C	Stop	4:51 PM	Stop	2.0				
Pump #	LV 4	Total Minutes	567	No. of samples included	1	Liters	1,134.0		0
Rotometer ID	LV 1								
Sample ID	10768-07	Location							
Sample Type		Work Methods Performed				temp. am/pm/avg.			
Protection									
Decon		Time Start		Flow Start					
Environment		Stop		Stop					
Pump #		Total Minutes		No. of samples included	1	Liters			
Rotometer ID									
Sample ID	10768-08	Location							
Sample Type		Work Methods Performed				temp. am/pm/avg.			
Protection									
Decon		Time Start		Flow Start					
Environment		Stop		Stop					
Pump #		Total Minutes		No. of samples included	1	Liters			
Rotometer ID									

SAMPLES TYPES		RESPIRATORY PROTECTION	DECONTAMINATION	ENVIRONMENTAL
B - Breathing Zone	CL - Clearance	PD - Pressure Demand	DS - Decon w/Shower	H - HEPA Vacuum
STEL - Excursion	XCL - Aggressive Clearance	CF - Continuous Flow	H - HEPA Vacuum	N - Negative Pressure Enclosure
I - Inside Work Area	PRE - Pre-Abatement	BH - Blasting Hood	DBS - Double Suit	G - Glovebag
N - Neg. Air Exhaust	O - Outside Work Area	F - Full Face Negative Pressure		NPG - Neg. Pressure Glovebag
	BL - Field Blank	H - Half Face Negative Pressure		M - Mini Containment
		PAPR - Powered Air Purifying		C - Controlled Area
		S - Supply Air		O - Outdoors

Personal Air Samples

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

Date 9/2/2011
Project Name NE Cape Lead Sampling

Project Number 10768
Work Area Name NE Fish camp

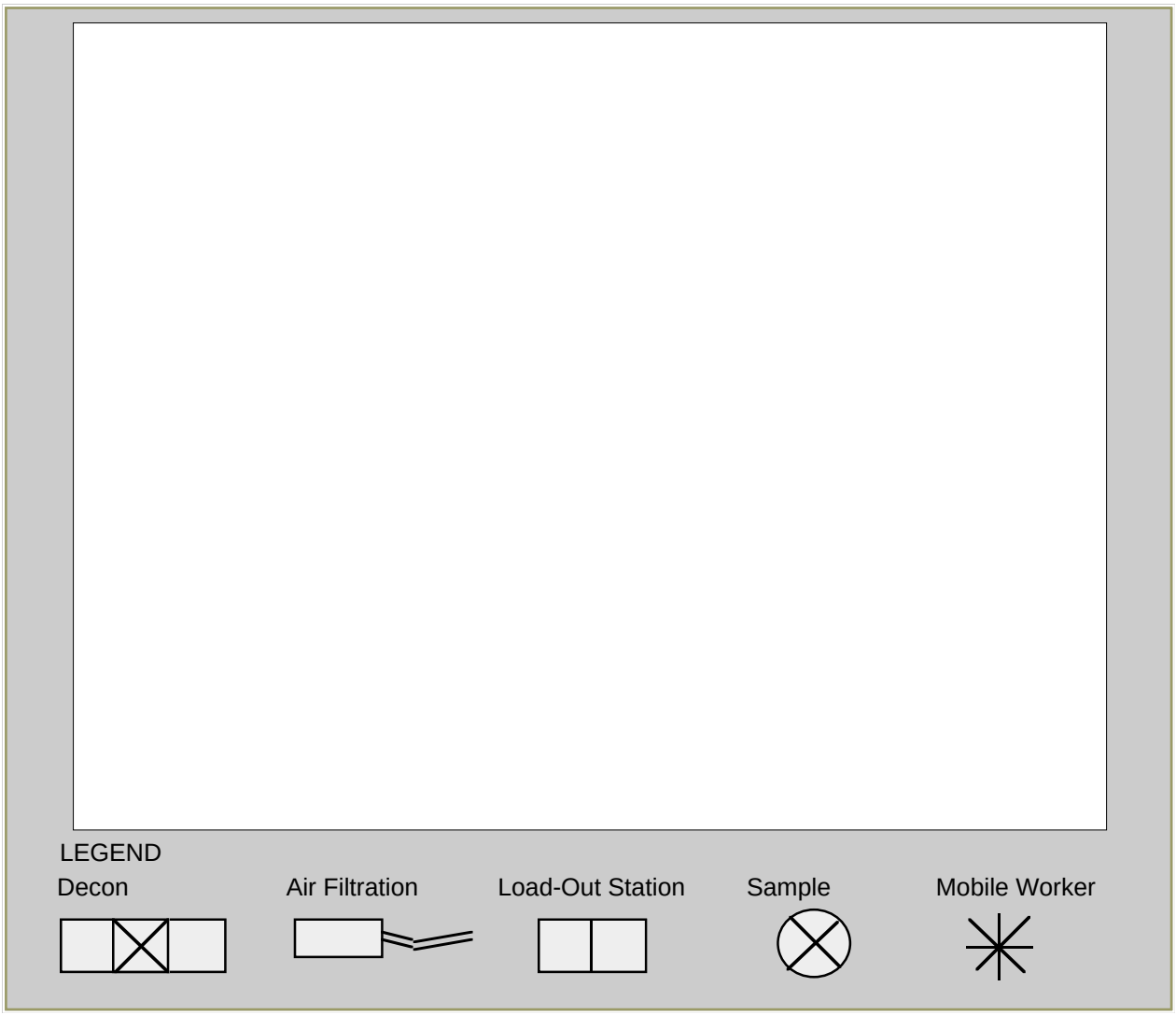
Worker/ Grouping ID	Sample No.	Type	Time(min)	Result	Units
Albert Kulowiyi			8 hour TWA:	**0.000**	
Cert#					
	10768-05	B	566	0	
Elmer Rookok			8 hour TWA:	**0.000**	
Cert#					
	10768-06	B	567	0	

Sample Types: STEL - Excursion, B - Breathing zone

Air Sample Locations

Satori Group, Inc. (Satori Group)
1310 East 66th Ave., #2
Anchorage, AK 99518
Telephone: (907) 332-0456 Fax: (907) 332-0457

Project Name NE Cape Lead Sampling Date 9/2/2011



Sample No.	Sample Type	Results
10768-05	Breathing Zone	0
10768-06	Breathing Zone	0
10768-07	Undefined Type!	
10768-08	Undefined Type!	

BRISTOL INITIAL DETERMINATION
MONITORING FOR LEAD IN PAINT MEMO

Bristol INDUSTRIES

111 W. 16th Avenue, Suite 305
Anchorage, Alaska 99501-5109
907-563-0013 Phone
907-563-6713 Fax

M E M O

DATE: August 17, 2011

TO: Tyler Ellingboe

FROM: Clark Roberts, Health & Safety Manager

RE: Initial Determination Monitoring for Lead in Paint, NE Cape

---

I have reviewed the laboratory report and data provided by Satori Group for lead-in-air monitoring performed August 3-4, 2011 at the Fish Camp demolition site at NE Cape, St. Lawrence Island.

The monitoring was performed during active operations involving removal of lumber and building materials coated with lead-based paint. The exposure levels observed were below laboratory detection limits, and therefore did not exceed any established action levels or permissible exposure limits for lead in air.

Based on these results, Bristol will use this data as the basis for our negative exposure determination for workers at the Fish Camp demolition and debris removal site. Workers at the site are not, and are not likely to be exposed to lead at, or above action levels established by OSHA. Additional air monitoring and medical surveillance will not be required, provided that all operations do not deviate from the project work plan and the methods and tools used during the Satori monitoring.

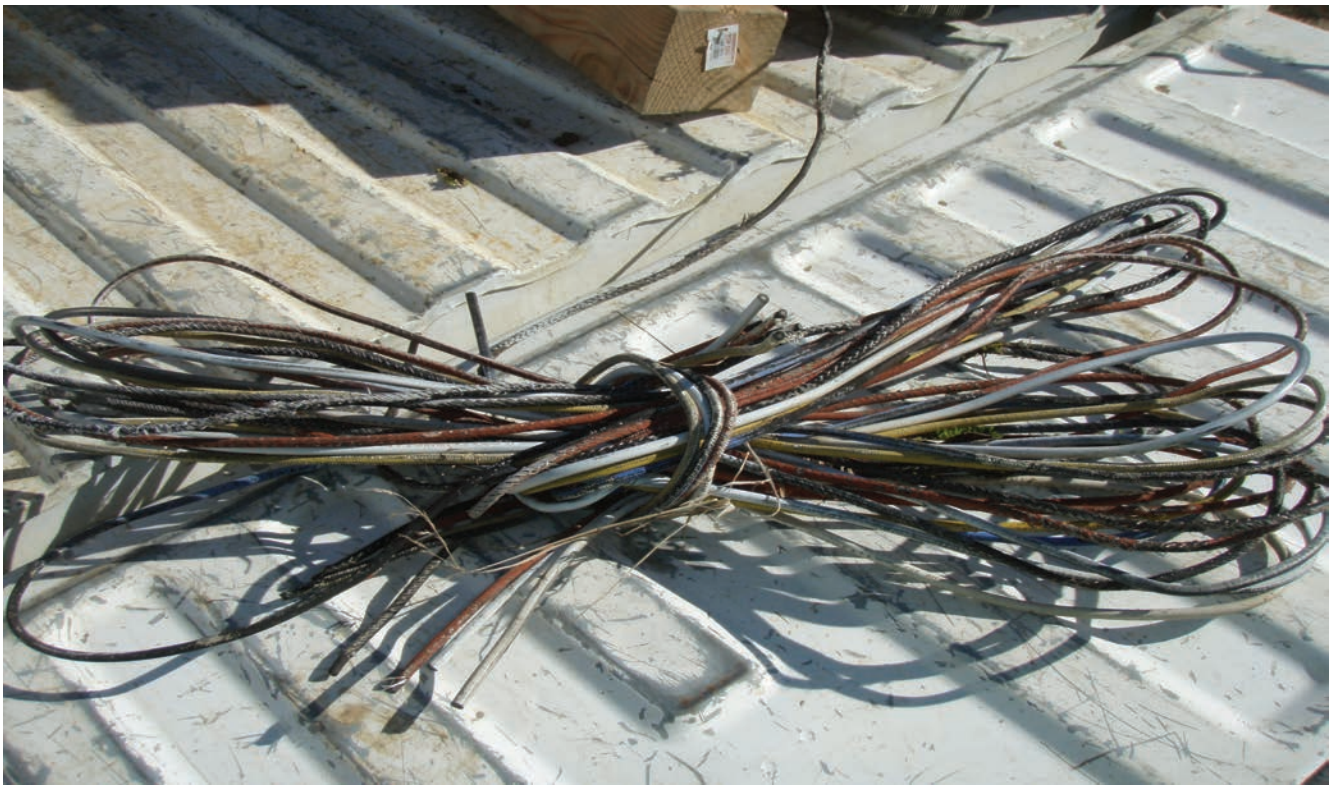
All workers involved in demolition and debris activity must continue to receive lead hazard awareness training (as needed, prior to work startup) and use all PPE provided for the work activity.

APPENDIX C

Photograph Log



Photograph 1: Asbestos-Containing Material (ACM) Transite Pipe Atop Debris Pile Date: August 2, 2011
Direction: Northwest Photographer: T. Ellingboe



Photograph #2: Suspect ACM Containing Electrical Wiring Date: August 2, 2011
Direction: N/A Photographer: T. Ellingboe



Photograph 3: ACM Packaged for Off-Site Shipment Date: August 5, 2011
Direction: N/A Photographer: T. Ellingboe



Photograph 4: Collected CON/HTRW (Suspect Dried LBP) Date: August 3, 2011
Direction: N/A Photographer: T. Ellingboe



Photograph 5: 20-foot ACM Conex Placarded for Shipment — Date: August 5, 2011
Direction: South — Photographer: T. Ellingboe



Photograph 6: Wood Burn Units for Non-Painted Wood — Date: August 10, 2011
Direction: North — Photographer: P. Braley



Photograph 7: Savoonga NALEMP Work Crew
Direction: South

Date: August 13, 2011
Photographer: P. Braley



Photograph 8: Structures and Debris Piles to be Removed
Direction: South

Date: August 13, 2011
Photographer: P. Braley



Photograph 9: Structure 2 and Associated Debris Pile
Direction: South
Date: August 5, 2011
Photographer: T. Ellingboe



Photograph 10: Partially Buried Marston Matting and Steel Drum
Direction: N/A
Date: August 13, 2011
Photographer: P. Braley



Photograph 11: Debris Pile for Removal
Direction: East

Date: August 13, 2011
Photographer: P. Braley



Photograph 12: Burning of Non-Painted Wood
Direction: N/A

Date: August 13, 2011
Photographer: P. Braley



Photograph 13: CON/HTRW Found at NVNC (Aircraft Grease) Date: August 13, 2011
Direction: South Photographer: P. Braley



Photograph 14: Toppling of Structure 2 Date: August 13. 2011
Direction: North Photographer: P. Braley



Photograph 15: Loading of Debris onto ATV Trailers
Direction: South

Date: August 13, 2011
Photographer: P. Braley



Photograph 16: Hauling of Wood Debris to Burn Pit
Direction: West

Date: August 15, 2011
Photographer: P. Braley



Photograph 17: Demolition of Unsafe Structure
Direction: East

Date: August 18, 2011
Photographer: P. Braley



Photograph 18: Accumulation of Scrap Metal
Direction: East

Date: August 21, 2011
Photographer: T. Ellingboe



Photograph 19: Savoonga NALEMP Crew on Former Structure Site
Direction: South
Date: August 23, 2011
Photographer: M. Faust



Photograph 20: Former Structure Location after Cleanup
Direction: North
Date: August 23, 2011
Photographer: M. Faust



Photograph 21: Sampling of Burner Ash
Direction: East

Date: August 24, 2011
Photographer: R. Annogiyuk



Photograph 22: Savoonga NALEMP Crew with Annie Alowa Sign
Direction: North

Date: August 3, 2011
Photographer: T. Ellingboe



Photograph 23: Former Structure Site Post-Debris Removal
Direction: East

Date: September 3, 2011
Photographer: T. Ellingboe



Photograph 24: Scrap Metal/Non-Burnable Pile
Direction: Southeast

Date: September 2, 2011
Photographer: T. Ellingboe



Photograph 25: Painted Wood Debris Staged for Containerization
Direction: North
Date: September 2, 2011
Photographer: T. Ellingboe



Photograph 26: Structure 8 Footprint After Debris Removal
Direction: Northeast
Date: September 2, 2011
Photographer: T. Ellingboe



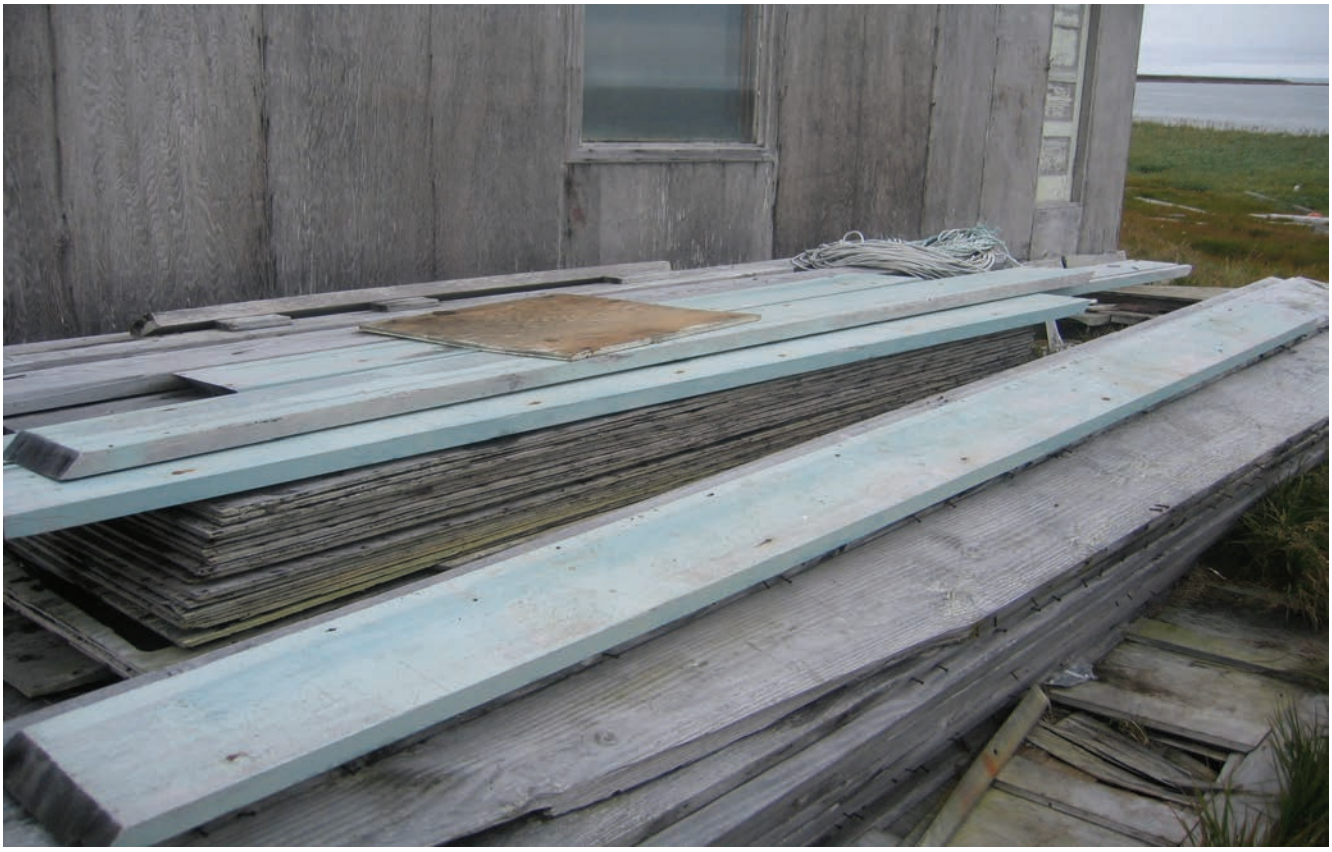
Photograph 27: Structure 10 Debris for Removal
Direction: North

Date: September 2, 2011
Photographer: T. Ellingboe



Photograph 28: Collected CON/HTRW (Suspect Dried LBP)
Direction: N/A

Date: September 2, 2011
Photographer: T. Ellingboe



Photograph 29: Painted and Non-Painted Wood for Removal/Burning Date: Sept. 2, 2011
Direction: North Photographer: T. Ellingboe



Photograph 30: Structure 11 Interior Door with LBP Date: September 2, 2011
Direction: N/A Photographer: T. Ellingboe

APPENDIX D

Field Notebook

"Outdoor writing products...
...for outdoor writing people."

ME CAPE
34110008
Kukuleget
Rubber Glove
"Towa"
Thermal OR653

4IRA
4 kukulget

LOXL

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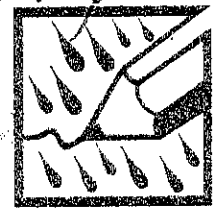
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6 32281 35112 2

49029 SAVOONGA

P. Braley



"Rite in the Rain"®

ALL-WEATHER

FIELD

No. 351

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

Name Pat Braley

Address 111 W. 16th Ave.
Anchorage AK 99501

Phone 907-563-0013

Project 49029 Shvoongm
NALEMP Removal

Clear Vinyl Protective Slipcovers (Item No. 30) are available for this style of notebook. Helps protect your notebook from wear & tear. Contact your dealer or the J. L. Darling Corporation.

CONTENTS

PAGE # | DESCRIPTION | DATE

Sunday 8/7/11

0200 Leave for Anc
1300 Arrive office & get tote & extra gear.
1330 Leave office & go for lunch the Airport.
1430 Arrive Airport & check in. Flight scheduled @ 1715 Departure.
1730 Flight Delayed.
1800 Depart for Kotzabue
1920 Arrive Kotz. & offload & refuel
2000 Depart for Nome.
2040 Arrive Nome & will get gear & go to Aurora Inn.
2140 Arrive Aurora Inn, check in. V-emails.
2200 End of Day.

6 hrs.

Nome - 40's, Cldy, Rain
NE Cape - 40's, Cldy.

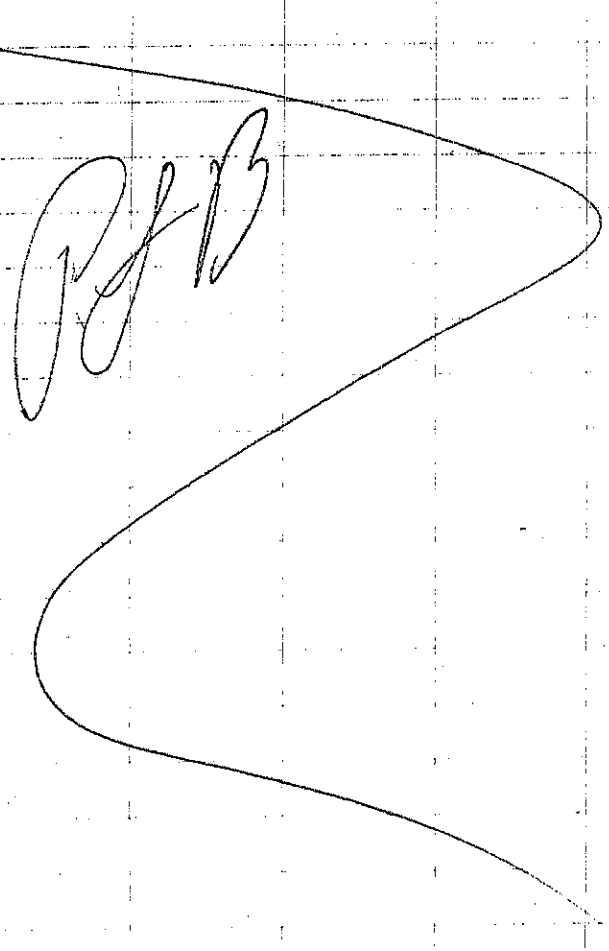
Monday 8/8/11

0700 Check email, call Bering Air & Leave message.
- Call Randy B. @ Job site about departure time → 1000
0830 Leave for AC store to get supplies then to Bering Air.
0945 Arrive Bering Air. Noyuk & Cody (Medic) there also.
1030 Depart for St. Lawrence.
1110 Arrive Job site & unload Then talk w/ Chuck About Lodging.
1200 Lunch
1230 Chuck meets w/ Noyuk, Cody & I for Briefing.
1330 Chuck & I tour entire Job area to familiarize me w/ what they are doing & also what my role will be.
- Visit "Fish Camp Area" & Look over site & Burn pits.
1600 Arrive back @ Camp & will locate Enviro Conex, Safety conex, Camera & gear Then set up my office.

Monday 8/8/11

1700 TAlk w/ check About ATV's & Trailers... basic Job supplies.

1800 End of Day



Cldy, 40's mist.

Tuesday 8/9/11

0630 Send email to Tyler & check About OSHA Lead Quick Chart for Training purposes.

0700 Safety meeting

0730 I will go thru & inventory equipment, gear, safety, Tools, & supplies for Job. Also will START up & run ATVs.

1000 Go to clean up site & will walk thru to see what types debris are present & try get some idea of & how best to Attack clean up.

1200 Lunch

1230 Check emails & Tyler E. emailed That crew supposed to/schedule for Wednesday 8/10/11 Arrival, but are Threatening A "NO Show" due to USACE NOT Paying Them for There Time so far.

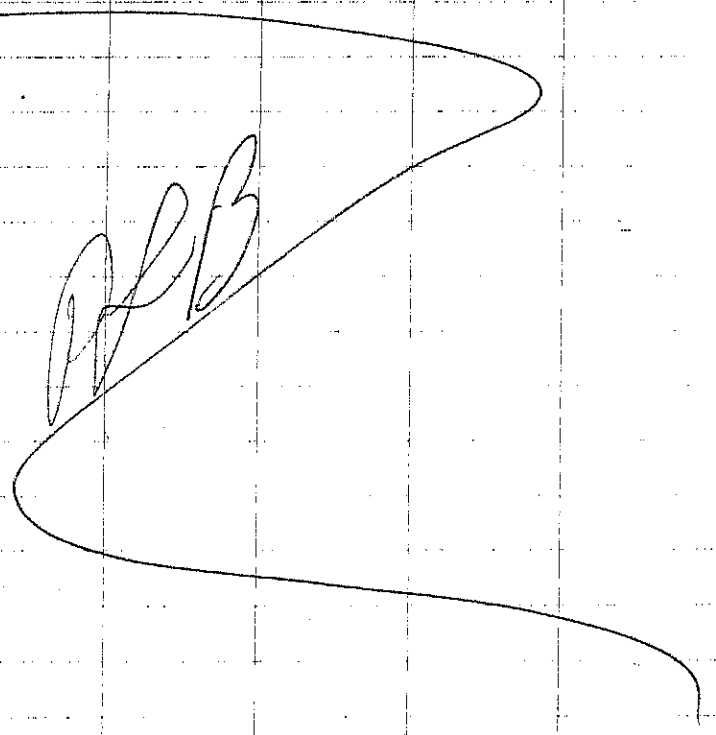
Tuesday 8/9/11

1400 Talk w/ Tyler About Spare Tires for ATV's. Discuss w/ Chuck & will wait to see if crew shows up.

1500 Go out to site.

1730 End of day.

10 hr



Wed. 8/10/11

0700 Safety meeting

0730 Leave for Barge Area

1000 Back @ base camp & will work on photos, monitor Job emails & schedule, P-Card, Safety plan.

1230 Talk w/ Randy & He email & me Tylers note about NHLEMP Crew.

1330 Contact Robert Annogiuk to schedule a pick up time @ Savoonga via Bering Air charter.

1430 Bering Air charter made & Savoonga crew ie. Robert A. has been contacted again to inform of Bering Air charter Arrival @ 1500 (3:00) pick up.

1500 Consult w/ Chuck & Randy about schedule.

wed. 8/10/11

1600 ready gear & Supplies go TO site.
1630 Arrive Site & ME cmpe/ Chuck, maze, Bruce Have fire in pit w/ Flare & generator setup.
1730 Arrive back @ camp.
1800 end of Day

winds 30 mph RAIN, temp 50's

Thursday 8/11/11
0700 Safety meeting All
0720 Mgmt meeting.
0800 will set up NALEMP office & check gear/charge equip. Batteries
1030 Weather is getting worse
- High wind gusts 30-40 mph
- Sideways Rain.
- Call Robert in Savoonga for update.
1500 canceled chanter Due to weather. Call Dewey (Savoonga Agent) to tell Robert.
- will try again Friday.
1600 will go to site & check on generator, Fan equipment.
1730 end of day

Friday 8/12/11 — Windy 40's, Clouds

0630 email Tyler & will plan on crew arriving today around 1300.
0700 Safety meeting
0715 Manager meeting
0730 will set up Safety gear for crew ie. Hard Hats, gloves, glasses, etc.
- Go over/Highlight WP topics & Safety plan
- Lead Awareness
1000 called Savoonga Crew to Let Them know Bering Air will Pick Them up Around 1300.
1145 Security Aviation Arrives
- Call from Robert saying Savoonga getting Fog.
1420 Bering Air Arrives w/ Supplies & NVS crew.
1500 JSA Briefing and Load Train/Awareness. Safety meeting
1600 Go to site
1700 Arrive back @ camp & crew settles in.
1730 Dinner / End of DAY

Saturday 8/13/11 — CLDY, 40's No rain or wind

0700 Safety meeting Them will have Crew Load up Sawsalls & chain saw / Safety gear
0730 Leave for site & will begin w/ debris Close to Burn pits & work out from Them.
0930 Burn pit is going.
1000 Crew Took 20 min break
→ Talk w/ Robert & They want 2-15 min breaks per day @ 10 & 1400 hr. * start BLDG 5 demo
* may be concentrate on (1) structure till completely demolished.
1200 Lunch
1230 Back @ site & continue Demo / Burn.
1400 - 15 min Break
1500 - Down to Foundation @ BLDG 5
- wood is very wet / water logged.
- old carpet & rubber mats on red painted subfloor.
1530 completed BLDG 5 & will move to some debris piles.

Sat. 8/13/11

1700 gathered wood + placed @ burn pits for starting on Sunday Morning.

1730 Back @ camp. I pick up Time sheets for ~~our~~ crew That Russell James printed for me + Give to Robert + crew. - work on Daily + Photos.

1900 End of Day.

12

Sun, 8/14/11

0630 ready gear + Safety topics.

0700 Safety meeting.

0720 Chuck gives Brief meeting over Structure demo + weather.

0730 Go to MOC area to get diesel + shovels.

* Talk w/ Robert (NVS) to get him to make a list of tools + supplies They need for RALEMP Job so we can Order. ie. Shovels, Tires/rain, etc.

* Show Crew the corners for Storing gear + also for LDP disposal + other disposal.

0900 Main site + fire pit is started.

- Robert starts the crew up by BLDGs #4 + associated debris piles.

- Robert, Scott, Hilbert & Emerson collecting debris.
- Nick & Jess are @ Burn R.T.S.

1000 15 min Break for crew
1045 Jeremy (USACE) on site & Robert is Pointing out Concerns That we Have discussed many times.
- Crew continues w/demo & debris Clean up @ BLDG #4 Area.

1105 Ugene on site & points out a Cylinder of ?
- will try & access cap & see if full then dispose of.

1115 Jeremy (USACE) off site.
1210 Arrive Camp for Lunch.
1305 Arrive Site. Check on site
1330 Chuck off-site. Check & discuss my Topic of charge time for NALEMS Group. I had talk w/group about Lunch being 30 min. NOT 1-hr. if they going to take

Breaks, it is for 15 min., NOT 25 or 30.
the short Time starts @ 0700-15 min
late @ 30 min Lunch. 1400 2nd 15 min
break & Leave site @ 1730
which = 10 hr.
1700 leave site for office
1720 Back on site after change
down Flash Drive for crew
Time Sheets.
- Crew has moved to west to Avoid
Emoke & is working on debris
piles.

1800 Crew doing a good job.
- Maze Swels up 2 ATVs
1800 Arrive Camp & Drop off
Crew.
Get dinner & Then will
- complete daily, Photos, & Time Sheets for Crew.
1830 begin Daily, Photos & Timesheets for crew & myself.
End of day
11 hr

Fog, 40's

Monday 8/15/11

0700 Safety meeting & go over Timesheets.

0730 Gather All BVS gear & store in Conex on Beach close to site.

0800 On site, Fire going, crew gets started.

0830 I go back to camp to talk w/Tyler about Job, Time, & Supplies. Phone Busy

0900 Talk w/Chuck & Randy about Scanning Time.

0930 Talk w/Tyler. Will scan signed Timesheets to Him. *Also Supply list.

0945 Work on Crews timesheets

1100 Complete & Have Randy Print Time Sheets & will Take to Crew & Have Sign.

1200 Lunch

1230 Crew meets @ NALEMP office to sign Final Timesheets. Leave for site

*Robert stays behind to make a couple Ph calls to BVS & Tyler,

1330 Robert on site & says could not get ahold of anyone @ office so will try Tuesday.

1400 I go to Locate some gear/tools & will Also order/email Tyler A supply List.

1430 Send Email w/Time Sor crew & supply List to Tyler.

- Bering Air Arrives.

1500 Back @ site & Robert is shovel & bag paint chips that Are present @ after Demo of Structure & Debris. This was caused by collapsing structure.

- interior contained LBP which/ when Demo created paint chips on interior.

1600 come back to office to call Tyler & email pics of BLPC #4 LBP Debris.

1730 Leave site

1830 Finish daily

8+3:11

Tuesday 8/16/11 Cldy, Fog 40's

0700 Safety Meeting & discuss Job Tasks.
- Scott, Elmer, Robert work on BLDG #4 Bag up LBP flakes using Plastic.
- Nick, Albert, Jess - work on debris pile moving to Beach.

0740 - Arrive S.T.C. After getting ATV Tire Repaired.
- Crew gets Fire going & Robert, Scott, Tyler start on Layin out Plastic for LBP Flake Storage @ BLDG 4.

0900 I Go to Email Tyler w/ added supplies List.

1000 Crew Takes Break

1015 Break over.
- continue w/ demo of BLDG #4 Foundation. Crew has contained LBP flakes & small debris in Plastic & has taped close.

1100 Crew loads Conex w/ LBP

Tuesday 8/16/11

Flakes that they cleaned from BLDG 4.
- Chainsaw is used to cut 2x6 Flooring in managible lengths & disposed of in fire Pit.

1200 Lunch

1230 Back to site by way of NE Cape site to have Tire repair on ATV.

1300 on site & move gen/light stand because located directly in smoke path.

1320 crew continue in BLDG 4 Area.

1440 Robert off site to call His people about Job progress & concerns.
- Crew continues w/ debris Areas around @ of Fish camp. ie Elmer Rookok's Grandparents House.

1510 Robert on site.

20 Tuesday 8/16/11

1700 Crew continue work in Debris Pile Areas.
1730 Crew off site.
1830 Download Pics & Send off Daily Report.

11.0 Hr.

Wed. 8/17/11

0700 Safety meeting
0730 Arrive site.
- START Five
- Continue Cleanup.
0800 Back to camp. Call Tyler About supplies Then Talk w/Chuck About Schedule ATV Maint. & Pick up 2-85 gal Drums for on site paint, oil, grease disposal storage.
0830 go pick up Scott & Melissa camp to get ATV. & Drums.
0915 Schedule ATV Maint. w/ Johnnie for Thursday.
1000 Back on site, unload & stage drums / label drums.
- ie - Paint debris, Grease, oil stains, NE cape 2011
- Break time for crew & Talk About Exc. to Push down BLPC#2 & Clean up @ Road where debris is in water. We'll use excavator for This. Crew enjoys cooler of Drinks.

Wed. 8/17/11

1045 Crew Has demolished structure #7 & is Burning debris. Seperating metals & Plastics for Later disposal & burn. Leave site

1115 Arrive back @ site & find crew sitting on ATVs, Smoking & TALKing. I Asked if they ran out of things to do or were confused on the TASK @ Hand (Burning/Demolish.) Response from Robert was "They were Hungry & Tired." when is lunch?

- We have gone over the same Topics every morning & during day. ie.
  - Demolish & burn unpainted woods debris.
  - LBP in a pile for later disposal.
  - Oil, Lube, grease placed in Drums.
  - Break @ 10 & 2. Lunch 12-1230 Quit Time 5:30. Two people Have watches.

1205 Lunch

1235 Head to site.

Drop of crew & They go to work Continue on BLDG 7.

I go back to Talk w/ chuck & Print out SATOR Lead report & Lead determination Letter from CLARK Roberts. I will give this to Robert (CVVS) so he can Have for his records.

1300 Back on site, continue Burn/Demolish.

1400 Bering Air Arrive

1530 Continue Demolish/Burn.

1630 Crew starts Clean up @ BLDG #2.

1730 Leave site.

End of Day

Thursday 8/18/11 Fog 70's

0700 Safety meeting
0720 on site & start fire.
- Crew will continue Debris Removal & Burn.
0800 I go back to camp & call Tyler to check on Job Status & schedule,
0900 Crew is completing clean up on BLDG 4.
1000 Break 15 min.
1015 Continue Debris clean up & burn.
- Robert off site to call his office to give progress Report. NO one Answer
1030 Go V w/ Johnny About Wheeler maint/oil filter change
- Schedule for Friday MAINT.
1100 Crew Continue w/ Debris clean up @ BLDG 4.
1110 Jeremy (USACE) on site & talking w/ Robert & taking a few pics.
- I talk w/ Jeremy (USACE) & he is pleased w/ progress.
1125 Jeremy off site.

1155 Leave site for Lunch.
1235 Arrive site continue w/ Debris Removal & Burn. @ BLDG 4
1300 Debris clean up BLDG 4 & Eugene.
1400 Break, Continue Clean up
1500 Excavator & Randy on site & will crush up & move deck area BLDG 2.
1600 BLDG 2 Demolished.
- move to BLDG 6 to push down.
1610 Jack moves to Road area & starts to clean out Trash from water/swamp between BLDG. 1 & 3.
- crew starts burning & seperating debris from demolished BLDG 2.
1705 Jack off site, Crew continue Haul & Burn.
1725 Leave site.

End of Day

Friday 8/19/11

0700 Safety meeting & will go to site. Start fire. Continue BLDG 2 debris Removal & Burn.

0830 Return to camp & Talk w/ Chuck + MATT About Job Description & Departure.

1150 Matt Faust taking over for Patrick. At beach picking up Nalemp crew.

1238 Dropping crew back off.

1500 Dropped off Robert @ work site.

1630 Stopped by Fish Camp

1725 Headed back to camp w/crew

Saturday 8/20

0700 NALEMP Safety Meeting

0710 Headed to fish camp.

0730 Leaving Fish Camp

1200 Came in to give ~~them~~ the ride in for lunch.

1240 Brought crew back to site.

1630 Back on Fish Camp site

1755 Headed back to camp w/crew.

Sunday 8/21/11

0700 Robert run a safety meeting in the TV room

0720 On Fish Camp site, dropping off NALEMP Crew.

0730 Back to Camp.

1045 On site @ Fish Camp

1205 Back @ Camp w/NALEMP Crew for lunch

1245 Dropped off NALEMP Crew @ Fish Camp

1623 Back @ Fish Camp to check up on crew.

1715 Back into camp early to work on timesheets

1725 Done w/ timesheets.

Monday 8/22

0700 Robert runs a safety meeting

0720 Leaving Camp

0725 Dropping off crew @ Fish Camp. Robert reminds me he has a conference call today, asked for pickup @ 0915-0920

0915 At Fish Camp, Robert already left on Honda. Maze, Doug, & Alan set up lined can for lead-based paint.

1015 Can almost full. Leaving site.

1150 Stop by to pick up crew

1200 At camp for lunch

1230 Headed to Fish Camp

1716 Back @ Fish Camp to check on crew, pick them up.

1730 End of day

Tuesday 8/23/11

0700 ~~Safety meeting, main topic included being safe despite being about to take a break. MF~~

0700 Robert runs safety meeting. Topics include slick travel in raing weather

0715 Drop off NALEMP Crew and head back to Camp to discuss w/ SSHO (Chuck) the NALEMP Crew's plan of pulling plywood sheets off roof of bldg to be demo'd. Chuck recommends pulling walls off first, then pulling the bldg down, & accessing the roof panels when on the ground.

0800 Return to Fish Camp, relay Chuck's recommendation to Robert, who agees to follow this approach.

1145 Back @ Fish Camp. Building down, wall's & roof in ~~bonfire~~ MF Fire Pit

1200 Crew back @ Camp

~~1235 MF~~

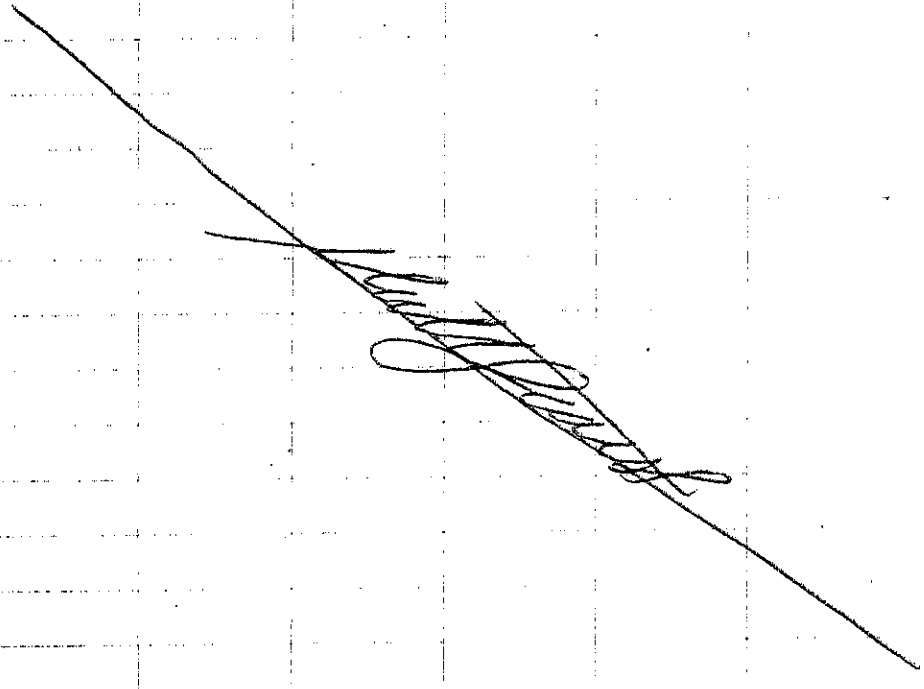
1235 Dropping crew back off @ Fish Camp.

1630 At Fish Camp. Crew has completely removed house, including floor.

1730 Headed back to camp.

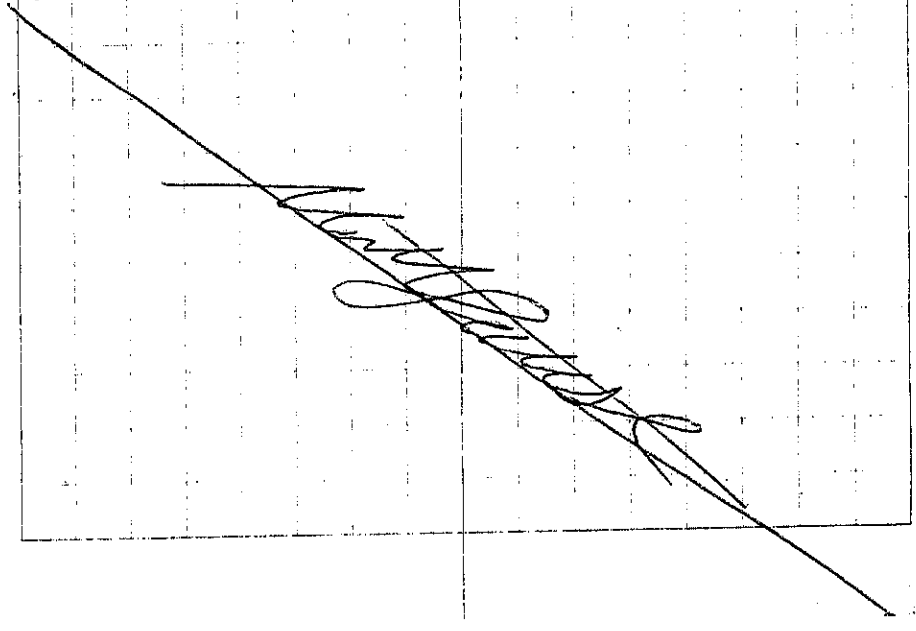
Wednesday 8/24/11

0700 Robert runs safety meeting.
0725 Crew on site.
0830 Lyndsey & Matt (Bristol) collect ash sample. 3 aliquots from each of 2 five pits composited & labeled as sample ID 'NVNEC Ash"
1130 Back on NVNEC site.
1200 Lunch
1240 Crew back on NVNEC site.
1700 Checking on NVNEC site
1730 End of day



8/25/11 Thursday

0700 Robert ran a safety meeting in TV room. Topics included weather and eye protection in the wind
0725 Dropped off NALEMP crew at the NVNEC site.
1130 Back @ NVNEC to pick up crew for lunch.
1700 Back @ NVNEC to pick up crew for end of day
1730 End of day



08/26/11 Friday

0700 Robert runs a safety meeting

0730 Dropped off crew @ NVNEC

1150 Back on NVNEC site to pick up crew for lunch

1240 Drop off crew @ NVNEC. Took some photos and agreed to email Tyler Ellingboe re: carhartt jacket for Jess and potential special handling waste (unknown white powder, unknown resin can, etc.)

1700 Back @ site to check in w/crew & pick them up for dinner.

1730 End of day

08/27/11 Saturday

0700 Robert runs a safety meeting

1140 Headed to NVNEC to check on crew.

1155 To lunch, Robert & Jess stay behind to wait on boat from Savoonga

1240 Crew back on site

1300 Boat arrives, brings visitors to camp for lunch

1500 (Village ~~Council~~ Council)

~1500 2nd boat arrives, local corporation representatives. Spend most of afternoon taking groups around on tours & back & forth to camp.

1730 Taking NALEMP group back to camp

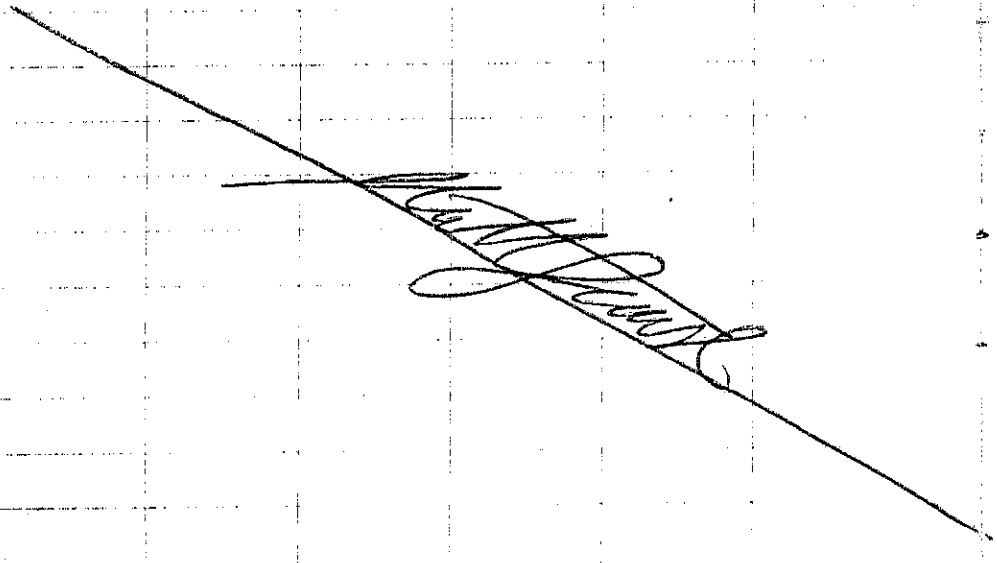
Dinner, end of day.

8/28/11

0700 Robert runs safety meetings
0720 Drop off crew @ NVNEC
1130 Pick up crew for lunch
1245 Drop off crew @ NVNEC
1600 At NVNEC site
1730 End of Day

8/29/11

0700 Robert runs safety meetings
0715 Drop off crew @ NVNEC
1150 Pick up crew. Scott takes over driving duties.
1200 Lunch.



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"Rite in the Rain"®

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FIELD

No. 351

R. James

49029

NE Cape Debris

NALEMP Project

7/24/2011

INCH

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ALL-WEATHER WRITING PAPER

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Job # 49029

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CONTENTS

PAGE	REFERENCE	DATE

7/24/11 NE Cape Debris
49029 E. James. Misty/Fg

Debris Sampling

11NVNC05001 @ 18:00
- Lead Based Paint

11NVNC05~~001~~ 002 @ 18:30
- Non-Lead based paint
Analyzing for TCLP Lead and PCBs

EPA SW1020
EPA 8082

P.O. Box 129
Savoonga, Alaska 99769
(907)984-6414/6649 phone
(907)984-6027 or 6156 fax

Native Village of Savoonga

Fax

To: TYLER ELLINGBOE **From:** ROBERT ANNOGIYUK

Fax: **Pages:** 10 INC. COVER

Phone: **Date:** JAN. 25, 2012

Re: MY NOTES @ NVNC REMOVAL ACTION **cc:**

☑ Urgent ☑ For Review ☑ Please Comment ☑ Please Reply ☐ Please Recycle

HI TYLER,

PLEASE READ OVER MY NOTES & INCLUDE THEM IN RA REPORT AS NVS COUNCIL & MYSELF WOULD LIKE THEM INCLUDED, WILL THAT BE ANY PROBLEM? PLEASE CALL OR EMAIL ME IF YOU HAVE ANY QUESTIONS, THANK YOU.

Robert Annogiyuk

Jan 25 2012 12:31PM HP LASERJET FAX 907-984-6009 p.2

2 PM - AUG. 12, 2011 FRIDAY

ALL WORKERS IN NEC FROM 5VA BEING AT A CAMP

TIME: 2-5 PM.

1. WENT OVER 2011 WORK PLANS & SITE SAFETY WITH PAT & CHUCK

2. RIDE DOWN TO VILLAGE SITE ON TRUCK & HANDS LOOK OVER SITE

3. BACK AT CAMP AT 5 PM

3 HRS. ORIENTATION FOR ALL WORKERS

AUG. 13, 2011:

6 AM - BREAKFAST FOR ALL.

7 AM - SAFETY MTG. WITH PAT & CHUCK. TOPICS: WORK PLACE, NAILS, LOOK OUT FOR FOXES, KNOW WHERE OTHERS ARE, COLLECT ONLY PLAIN WOOD NEAR BURNERS. 1ST TO START 1 BURNER, PAT HELPING WITH US & EVERYDAY UNTIL WE GET THE FEEL OF IT.

8 AM - AT WORK AREA COLLECTING WOOD WITHOUT LBP, ALL OF US. BURNERS AT BANK OF BEACH.

9 AM - PAT STARTED 1ST BURNER FIRE GOING. I TOOK SEVERAL PICTURES WITH PAT'S CAMERA MOSTLY AROUND NEAR BURNERS & ENGINE FOCUS & RAYMOND T.'s HOUSE & NEARBY HOUSES FALLEN DOWN STARTED IN THAT AREA. RANDY BLACK DOWN TO HELP US. EVERYBODY WORKING GOOD.

12: LUNCH

12:30 BACK TO WORK.

DEMOLISHING HOUSE #5 NEAR BURNER

BRYANT CHAINSAW WILL WORK ON IT ALL AFT. TILL WE'RE OFF. FINISH DEMOLISHING #5 HOUSE & BURNED PLAIN WOOD & PILED LBP WOOD. ALSO WORKED ON PLAIN WOOD NEAR BY #5.

AUG 17, 2011

7AM - SAFETY MTG

RAINING & WET. DO NOT RUSH. SLIPPERY. DONOT SWEAT BY PACING NOT TO EXERT YOURSELF.

CHUCK - SITE SUPERINTENDANT CHUCK TALKED TO US TODAY & YESTERDAY.

HAZ. DEMOLISHING HOUSES, WOBBLY HOUSES - WILL TOPPLE OVER ANYTIME, BE CAREFUL. RAINING & WET - DON'T SWEAT TOO MUCH, COOL DOWN. GOOD 1ST DAY YEST.

8AM WORKING ON DEBRIS PILE #3 (NORTH OF) NEAR EUGENE T. RAINING & TRYING NOT TO EXERT SUNGLASSES CAUSE WERE SWEATING IN OUR RAINGEAR. FOUND WHITE 5 GAL. PAINT NEAR EUGENE TOOLIE'S HOUSE. PARTIALLY BURIED FLAGGED SOIL & TOOK PICS. NO GAS.

8-15-11

7AM SAFETY MTG.

8AM - GOT QUICKCLAW FROM CONNIE. TILL LUNCH - PICK UP PLAIN WOOD, CONCENTRATE ON THAT TODAY, & BITS & STUFF.

GET THE BACK RAILING.

11:30 - NORTH BESIDE SEDDIQUI'S HOUSE, FOUND & MARKED ROLL OF ASBESTOS & SMALL DAB OF WHITE SUBSTANCE - TOOK PICS TO SEND TO OFFICE. FLAGGED PLACE OF ASBESTOS ROLL.

8-16-11 - 08:17 - 5:18, 2011

SAME ROUTINE TODAY.

BRIAN WALK, COLLECT LBP AFT ABOUT 3 - EXCAVATOR

8-19-11 - DEMOLISHED #2 HOUSE

WORKED ON #2 HOUSE DEMOLISHED YESTERDAY.

PATRICK BAILEY LEFT US TODAY, JEFF FAUST IS REPLACEMENT. HOUSE DEMOLISHED BY EXCAVATOR IS A MESS, TURNED OUT JUST WALLS

Jan 25 2012 12:33PM HP LASERJET FAX p.3 907-984-6009

{ ROOF WILL BE TORN DOWN.
NOW WE HAVE TO SORT THEM OUT.
BY HAND.

08-30-11

7AM - SAFETY MTG. WITH MATT.

7:30 - AT SITE, PLANNING TO WORK ON SAME HOUSE #2, COLLECT WOOD TO BURN. WORKED ON SORTING WOOD, WIRES, LBP, TILES, BATTERIES, GROUND & DIRT MIXED, RAKING & SHOVELING IT OFF PLYWOODS.

3 PM - EXCAVATOR DOWN TO DEMOLISH FLOOR & PLYWOODS, LUMBER, MAN-MADE METALS ON HOUSE #2. PILED WOOD, LBP WOOD & METALS CLOSER TO US SO WE CAN SEPARATE FROM. KEPT BURNING WOOD TILL END OF WORK TODAY.

PHEW.

08-31-11

7AM - SAFETY MTG.

7:30 - COLLECTING WOOD

TO BURN. WILL WORK ON HOUSE # 2 TODAY. SEPARATING LBP WOOD, WIRE, METALS, ALSO CUTTING WOOD LIKE # BYSON GAS ETC. LOOKS THAN OUR BURNER.

10AM - EXCAVATOR (JEB) DOWN TO SORT METAL & WOOD, DRUMS FROM DUMP PILE, ALL MIXED UP, MOSTLY METAL.

1PM - MIKE GALLEGOS WITH BRISTOL BAYS COME DOWN TO BAG TILE CHIPS & RUBBER HOSE - 1 ROLL WAS 4 INCH (60 FT. SIXTY FT. (ABOUT) LONG

1 ROLL - 1½ WIDE X 20 FT. LONG

4 BAGS CHLOROSE - ABOUT 110 lbs

6 BAGS - TILES = 160 165 TOTAL TOTAL

SAND, MIXED WITH PIECES OF WOOD

EXCAVATOR ALL AFT. ASSORTED METAL & WOOD AT DUMP ALONG ROAD.

Jan 25 2012 12:36PM HP LASERJET FAX 907-984-6009 p.4

08-22-11

7 am - SAFETY MTG: RAKING ON & OFF SLOPS, TRIP & FALLS. NAILS, WIND CHANGED TO SOUTH. IT GET WINDY, LOTS OF DUST & LBP DUST LIABLE TO BE AIRBORNE RESPIRATORS & GOGGLES.

7:30: AT SITE, WITH EXCAVATOR WORKING ON POND NEAR LITTLE NEW EUGENE T.'S HOUSE, GETTING WOOD, METALS OUT OF POND KIND OF DEEP FOR HIM TO GET THEM OUT. GETTING PLAIN WOOD FROM 2 HOUSES ACROSS CREEK WE'RE GOING LET THE FIRE BURN OUT ON BURNER #1 WE'RE USING, & TAKE OUT ASH TO BE SHIPPED OUT. WE'RE GOING TO START FIRE ON BURNER # 2 & USE IT TILL WE RUN OF PLAIN WOOD TO BURN.

10-11: I HAD TELECONFERENCE WITH CASEY COSSABOOM & NVS IAP COUNCIL ABOUT

OUR OPTIONAL TASK 1 PENDING APPROVAL BY NVS PRESIDENT. MIGHT BE SIGNED IN A FEW DAY

12:30 - WORKED ON GETTING READY HOUSE #12 TO DEMOLISH OWNED BY TONY PELOWOOK, CALLED HIM TWICE ABOUT WHAT HE WANTS TO DO, ASKED ME WHAT INSIDE LOOKED LIKE, I REPLIED THAT WINDOWS WERE BROKEN, INSULATION WAS WET & MOLDY & FALLING OFF, FLOOR WAS ROTTING, SHED HAD BIG HOLE IN ROOF & OPEN TO ELEMENTS. I ALSO TOOK PICS OF INSIDE. HE GAVE OUR APPROVAL TO TAKE IT DOWN & DEMOLISH IT CAUSE IT'S NOT GOOD TO LIVE IN. [redacted] GETTING OUT INSULATION 1ST, PUT ON RESPIRATORS FOR THIS JOB & RUBBER GLOVES, OPEN ALL WINDOWS FOR VENTILATION, PUTTING INSULATION IN BAGS 1ST. FOUND 5 GALLON OF BLACK

Jan 25 2012 12:39PM HP LASERJET FAX 907-984-6009 P.5

TAR WITH LID RUSTED OFF, TOOK PICS & GOT RID OF TAR & MARKED IT FOR SOIL REMOVAL & TESTING.

08-23-11

7AM SAFETY MTG.

WORKED ON HOUSE #12, START FIRE, BAGGED DEBRIS TO BRING DOWN TO BURNER, PACED OFF PLYWOOD WALLS & TOOK DOWN ROOF ~~[illegible]~~ AT 9:30 AM. DEMOLISHING HOUSE & BURNING PLAIN WOOD & ASSORTING LBP & METAL.

12:30 P.M - WORKING ON FLOOR & TAKING IT APART, STILL BURNING DEBRIS & WOOD

08-24-11

7 AM: SAFETY MTG. WILL ORDER EYE PROTECTERS, ~~[illegible]~~ LEATHER GLOVES, REFLECTIVE VESTS.

WE PLAN TO CLEAN UP & PICK UP DEBRIS FROM FLOORS & PULL OUT FOUNDATION BEAMS. GENERALLY CLEAN UP HOUSE AREAS ALL DAY.

MATT FAUST WILL COLLECT FIRE RESIDUE OR ASH IN BURNER # 1 WE USED 1ST 8:30 AM MATT & LINDSEY KLEPPIN SCOOPED OUT ASH SAMPLES IN BOTH BURNERS - 3 SAMPLES IN DIFF. SPOTS ABOUT 6 IN TO 10 INCH DEEP - BOTH BURNERS, 6 SAMPLES TOTAL.

9-12:30 ALL MORNING & ALL AFT WE WORKED ON #10 BCCHOES WILSON DR'S HOUSE THAT IS PARTIALLY STANDING. FOUND 1-5 GALLON HALFWAY BETWEEN W.O. HOUSE & #10 GREY PAINT STILL OOZING & NOT COMPLETELY DRIED AT THAT HOUSE ON GROUND, MARKED IT & TOOK PIC.

ALSO FOUND 6 SMALL PAINT (2 GALS) TOOK PICS AT SE CORNER & MARKED. COLORS: ORANGE, GREY & TAR CONTAINER

ALSO FOUND IN HOUSE #10, SMALL 2" FIRE HOSE ABOUT 20 FT. LONG. (ACM)

JACK WITH EXCAVATOR TORCHED A ~~[illegible]~~9 HOUSE BECAUSE IT WAS PARTIALLY STANDING & UNSAFE TO GO UNDER OR NEAR HOUSE. LAST OF THE HOUSE STILL STANDING TO BE DEMOLISHED. ONLY 3 ARE LEFT STANDING. LOTS TO RAKE & CLEAN UP DEBRIS PILES & FOUNDATION

p.6 907-984-6009 Jan 25 2012 12:42PM HP LASERJET FAX

08-25-11

7AM SAFETY: LIL WIND & RAINING, EYE ABRETTION. CARE FUL OF FLYING DEBRIS OR DUST. WORK SLOWLY & CAREFULLY.

7:30: AT SITE ACROSS CREEK, HOUSE F11: FOUND 1/4 FULL WHITE 5 GALLON IN GROUND LBP PAINT NEAR DITCH IN LAND OUTSIDE OF HOUSE #10 - NORTHEAST. TOOK PICS & MARKED. BROKEN GLASSES & WIRE CABLE 1/2 INCH COULONT PULL OUT, TOOK PICS & MARKED NEAR #10 NORTH OF SMALL DITCH. STILL GOT GLASSES NOT COMPLETELY CLEANED UP.

1-5:30: WORKED ALL APT. ON DEBRIS PILE THAT HAD A HOUSE ON, GOT FLOOR & BEAMS. RIGHT NEXT TO WILSON OK'S HOUSE. FOUND NW CORNER IN THAT PILE, 4 GALLON OF ORANGE BROWNISH TAN OF SUBSTANCE, TOOK PIC & MARKED IT.

08-26-11 FRI.

7AM - SAFETY ATT: RAINY & WINDY CONDITION. TOLD CREW NOT TO EXERT & WORK CAREFULLY.

7:30-10AM: DIDN'T QUITE FINISH DEBRIS PILE WHT WAS ONCE A HOUSE. STILL DEBRIS IN IT. LEFT A BROWNISH YELLOW TAN CONTAINER THERE BUT I TOOK PICS. & MARKED IT.

10AM: WENT TO DEBRIS PILE WEST OF HOUSE #9. FOUND A SMALL SPACE OF WHITE SUBSTANCE & GREY & BLACK TILES & 5 SMALL CANS OF GREASE. TOOK FEW PCAIN WORD & LEFT IT FOR SATOKI TO PICK THEM UP. WE ALSO LEFT HOUSE #9 FOR SATOKI TO LOOK AGAIN IF THEY COME AS THEY PLAN TO DO.

11AM: PLAN TO WORK ON CLEANING DEBRIS PILES & FLOORS IN MAIN VILLAGE.

Jan 25 2012 12:46PM HP LASERJET FAX 907-984-6009 p.7

08-27, 28, 29, 30 & 31, 2011
ALL WEEK, SAME THING.
7 AM: SAFETY MTG.

7:30 - 5:30: COLLECT WOOD, LBP WOOD & LUMBER, RAKED DEBRIS PILES, FLOORS IE STILL IN PLACE, OTHERS ROTTEN, COLLECTED METAL, DO HOUSE CLEANING, GENERALLY, ALL WK.

8-31, 2011
4: PM: FOUND 1/4 DRUM OF LBP STILL IN DRUM IN GROUND WITH GRASS ALMOST COVERING IT. TOOK JUST PICTURES & FLAGGED IT, NO GPS, WILL LET SATORI OR SOMEONE PUT IT IN GPS.

SEPT. 1ST, 2011

7 AM: SAFETY MTG. W/ PHIL FROM SATORI
7:30: ON SITE WITH PHIL (SATORI GROUP)

PUT ON ABATEMENT LEAD AIR SAMPLER TO NICOLAS TOOLIE & JESS REYNOLDS.
WEATHER CONDITIONS:
WINDS @ ENE 15-20 KNOTS
PLAN TO WORK ON HOUSE #9 ACROSS CREEK ALL DAY. LATE NELSON & ANNIE ALCOA HOUSE.
11:15 AM.
FOUND A 1 GALLON CONTAINER OF POISON ABOUT A LITTLE BIT LEFT UNDER DEBRIS. TOOK PICS. & TAY TO CONTAINED IT IN GARAGE LID AWAY FROM OUR WORK SITE. UPON CLOSER INSPECTION IT HAD SMALL HOLE IN BOTTOM OF CAN. DID NOT POUR OR OPENED IT. PHIL TOOK CARE OF IT BY POURING IT. WILL WAIT FOR TYLER WHOSE COMING TOMORROW & ALSO SHOW IT TO PHIL ~~WITH~~ WITH SATORI GROUP.

DRUM LEFT IN PLACE

Jan 25 2012 12:49PM HP LASERJET FAX 907-984-6009 p.8

SEPT. 2, 3, 2011

ALL 3 DAYS

7AM – SAFETY MTG

7:30 – 5:30: DEMOLISHED A 9 HOUSE & WORKED ON IT FOR 3 DAY UNTIL DONE

SEPT. 4-5

7 AM: SAFETY MTG

7:30 – 5:30 PICKED UP DEBRIS & RAKED UP HOUSE PADS & BURN THEIR DEBRIS

EVENING: ABOUT 8 P.M

★ WIND & SURF STARTING TO PICK UP TO ABOUT 40 KNOTS.

ABOUT 9 P.M.

WE WENT TO CHECK BURNERS, WIND PICKED UP TO 50+KNOTS. BACKERS & SPRAYS GETTING UP TO OUR BURNERS. TOOK PICS. TO SEND OUT.

STORM UPON US, VERY HIGH WINDS UP TO 60 KNOTS.

SEPT. 6, 2011

7AM. SAFETY MTG

CHECK WITH US ADVISING US ABOUT HIGH WINDS & SURF TODAY. TOLD MY CREW TO STAND BY FOR TODAY.

AT ABOUT 8:00 AM WENT DOWN TO SITE & CHECK OUR BURNERS, WATER & SPRAYS RETCHED OUR BURNERS, TOP STILL GOT BURNING EMBERS IN BOTH BUT BOTTOM GOT SOAKED IN WATER. WILL CHECK AGAIN, LOW TIDE NOW AND STILL LOW TIDE @ 11AM WHEN WE CHECKED, WIND STILL HIGH @ NAT 40-50 KNOTS, REPORT LATER WHEN TIDE IS HIGH. STAND BY FOR 8 HRS.

SEPT. 7

7AM – SAFETY MTG.

WIND STILL STRONG BUT DIED DOWN SOME, ON STANDBY TILL 12:30 PM

Jan 25 2012 12:53PM HP LASERJET FAX 907-984-6009 p.9

CONTINUED TO PICK UP DEBRIS MOSTLY BY HAND, STILL GUSTY. GOT 1 OF OUR BURNER LIT, OTHER 1 HAS DIED DOWN. 1ST BUANER WE USED STILL HAS SPARK.

SEPT. 8, 2011 THURS.
7AM - SAFETY MTG
STILL GUSTY,
7:30 - 5:30 - TRIED TO PICK UP DEBRIS IN PLACES, STILL WINDY & DUST FLYING. PICKED UP WHATEVER WE CAN, WE DIDN'T PICK UP TILES, CHIPS IN HOUSE PADS & DEBRIS PILES, WIRES STUCK IN GROUND, SOME DRUMS MOSTLY PARTIALLY BURIED, MARKED IT OUT NOT IN GPS. HALFWAY BETWEEN EUGENE TOOLIE'S HOUSE & METAL PILE, GRASS COVERED. ALSO DIDN'T PULL OUT MATTING PARTIALLY COVERED,

PLYWOODS PARTIALLY COVERED, METALS STUCK IN GROUND, BROKEN GLASSES IN HOUSE & DEBRIS PADS, NEEDS SOME RAKING IN EVERY HOUSE & DEBRIS PADS FOR NEXT YR. BECAUSE THERE IS STILL BROKEN GLASSES EVERYWHERE & TILE CHIPS STILL SCATTERED. CARGO BEACH ROAD DUMP SITE DEBRIS NOT PICKED UP, MOSTLY STUCK IN DIRT WHEN EXCAVATOR SCOOPED IT OUT. CREEK NOT WORKED ON, DRUMS, PLYWOODS & LUMBER STILL THERE & WIRE & METALS. ALSO IN OTHER AREAS WITHIN BOUNDARIES OF NVNC. WE NEED TO PUT MORE WORK FOR NEXT YEAR'S PROPOSAL. LAST DAY OF WORK, FOR 2011. [redacted]

Jan 25 2012 12:56PM HP LASERJET FAX 907-984-6009 p.10

APPENDIX E

Laboratory Data Reports

Lead Debris Analytical Report (Abbreviated)
(due to the size, the full report will be
provided only electronically)

Burner Ash Analytical Report

ANALYTICAL REPORT

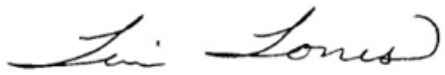
Job Number: 580-27645-1

Job Description: Savoonga NALEMP, 49029

Contract Number: W911KB-06-D-0007

For:
Bristol Env. Remediation Services LLC
111 W 16th Ave
Suite 301
Anchorage, AK 99501

Attention: Molly Welker



Approved for release.
Terri L Torres
Project Manager II
8/26/2011 4:27 PM

Terri L Torres
Project Manager II
terri.torres@testamericainc.com
08/26/2011

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC and the DOD QSM V4.1 (4/22/09). All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

Table of Contents

Cover Title Page 1

Data Summaries 4

- Report Narrative 4
- Manual Integration Summary 5
- Sample Summary 16
- Method Summary 17
- Sample Datasheets 18
- Surrogate Summary 22
- QC Data Summary 23
- Data Qualifiers 29
- QC Association Summary 30
- Reagent Traceability 32
- Certification Summary 55

Organic Sample Data 56

- GC Semi VOA 56
  - Method 8082 56
    - Method 8082 QC Summary 57
    - Method 8082 Sample Data 71
    - Standards Data 82
      - Method 8082 ICAL Data 82
      - Method 8082 CCAL Data 277
    - Raw QC Data 452
      - Method 8082 Blank Data 452
      - Method 8082 LCS/LCSD Data 457
      - Method 8082 MS/MSD Data 462
    - Method 8082 Run Logs 472

Table of Contents

Method 8082 Prep Data 476

Inorganic Sample Data 477

Metals Data 477

Met Cover Page 478

Met Sample Data 479

Met QC Data 481

Met ICV/CCV 481

Met CRQL 483

Met Blanks 484

Met ICSA/ICSAB 487

Met MS/MSD/PDS 490

Met Dup/Trip 493

Met LCS/LCSD 494

Met Serial Dilution 497

Met MDL 498

Met Linear Ranges 500

Met Preparation Log 501

Met Analysis Run Log 502

Met ICP/MS Int Stds 505

Met Raw Data 507

Met Prep Data 621

Shipping and Receiving Documents 625

Client Chain of Custody 626

CASE NARRATIVE

Client: Bristol Env. Remediation Services LLC
Project: Savoonga NALEMP, 49029
Report Number: 580-27645-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: Q-S-002. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations are detailed in the manual integration summary forms following this narrative.

It should be noted that samples with elevated Limits of Quantitation (LOQs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the LOQs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interfererences thereby enabling the quantification of target analytes.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 07/27/2011 and 08/09/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 and 3.1 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

POLYCHLORINATED BIPHENYLS (PCBS)
Samples 11NVNCDS03 (580-27892-1) and 11NVNCDS04 (580-27892-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 08/15/2011 and analyzed on 08/25/2011.

The following sample(s) required a sulfuric acid clean-up to reduce matrix interferences: 11NVNCDS03 (580-27892-1) and 11NVNCDS04 (580-27892-2). (Sulfuric Acid Lot# 709195).

No difficulties were encountered during the PCBs analyses.

All quality control parameters were within the acceptance limits.

TCLP METALS
Samples 11NVNCDS001 (580-27645-1) and 11NVNCDS002 (580-27645-2) were analyzed for TCLP metals in accordance with EPA SW-846 Methods 1311/6020. The samples were leached on 08/03/2011, prepared on 08/04/2011 and analyzed on 08/05/2011.

No other difficulties were encountered during the TCLP metals analyses.

All quality control parameters were within the acceptance limits.

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 81563

Lab Sample ID: IC 580-81563/2 Client Sample ID:

Date Analyzed: 03/03/11 09:34 Lab File ID: CC155047.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	3.16	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 1	3.89	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 2	4.10	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 3	4.36	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 4	4.61	Baseline Smoothing	muirm	03/03/11 13:20
PCB-1016 Peak 5	4.82	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 1	5.84	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 2	6.02	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 3	6.31	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 4	6.79	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 5	7.07	Assign Peak	muirm	03/03/11 13:20
DCB Decachlorobiphenyl	7.87	Assign Peak	muirm	03/03/11 13:20

Lab Sample ID: IC 580-81563/2 Client Sample ID:

Date Analyzed: 03/03/11 09:34 Lab File ID: CC155047.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.90	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 2	4.10	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 3	4.40	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 4	4.66	Assign Peak	muirm	03/03/11 13:20
PCB-1016 Peak 5	4.85	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 1	5.89	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 2	6.12	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 3	6.35	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 4	6.87	Assign Peak	muirm	03/03/11 13:20
PCB-1260 Peak 5	7.09	Assign Peak	muirm	03/03/11 13:20
DCB Decachlorobiphenyl	7.90	Assign Peak	muirm	03/03/11 13:20

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 81563

Lab Sample ID: IC 580-81563/9 Client Sample ID:

Date Analyzed: 03/03/11 11:13 Lab File ID: CC155054.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	5.21	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 2	5.42	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 3	5.74	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 4	6.00	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 5	6.36	Baseline Smoothing	muirm	03/03/11 13:31

Lab Sample ID: IC 580-81563/10 Client Sample ID:

Date Analyzed: 03/03/11 11:27 Lab File ID: CC155055.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	5.21	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 2	5.42	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 3	5.74	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 4	6.00	Baseline Smoothing	muirm	03/03/11 13:31
PCB-1254 Peak 5	6.36	Baseline Smoothing	muirm	03/03/11 13:31

Lab Sample ID: IC 580-81563/12 Client Sample ID:

Date Analyzed: 03/03/11 11:55 Lab File ID: CC155057.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	3.40	Incomplete Integration	muirm	03/03/11 13:32
PCB-1221 Peak 2	3.48	Incomplete Integration	muirm	03/03/11 13:32
PCB-1221 Peak 3	3.56	Incomplete Integration	muirm	03/03/11 13:32

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 81563

Lab Sample ID: IC 580-81563/12 Client Sample ID:

Date Analyzed: 03/03/11 11:55 Lab File ID: CC155057.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	5.21	Baseline Smoothing	muirm	03/03/11 13:32
PCB-1254 Peak 2	5.42	Baseline Smoothing	muirm	03/03/11 13:32
PCB-1254 Peak 3	5.74	Baseline Smoothing	muirm	03/03/11 13:32
PCB-1254 Peak 4	6.00	Baseline Smoothing	muirm	03/03/11 13:32
PCB-1254 Peak 5	6.36	Baseline Smoothing	muirm	03/03/11 13:32

Lab Sample ID: IC 580-81563/14 Client Sample ID:

Date Analyzed: 03/03/11 12:23 Lab File ID: CC155059.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	5.21	Baseline Smoothing	muirm	03/03/11 13:33
PCB-1254 Peak 2	5.42	Baseline Smoothing	muirm	03/03/11 13:33
PCB-1254 Peak 3	5.74	Baseline Smoothing	muirm	03/03/11 13:33
PCB-1254 Peak 4	6.00	Baseline Smoothing	muirm	03/03/11 13:33
PCB-1254 Peak 5	6.36	Baseline Smoothing	muirm	03/03/11 13:33

Lab Sample ID: ICV 580-81563/15 Client Sample ID:

Date Analyzed: 03/03/11 12:38 Lab File ID: CC155060.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1254 Peak 1	5.21	Shouldering	muirm	03/03/11 13:35
PCB-1254 Peak 2	5.42	Shouldering	muirm	03/03/11 13:35
PCB-1254 Peak 3	5.74	Shouldering	muirm	03/03/11 13:35
PCB-1254 Peak 4	6.00	Shouldering	muirm	03/03/11 13:35
PCB-1254 Peak 5	6.36	Shouldering	muirm	03/03/11 13:35

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 81563

Lab Sample ID: ICV 580-81563/22 Client Sample ID:

Date Analyzed: 03/03/11 16:20 Lab File ID: CC155072.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	3.40	Baseline Smoothing	muirm	03/08/11 13:28
PCB-1232 Peak 2	3.56	Baseline Smoothing	muirm	03/08/11 13:28
PCB-1232 Peak 4	4.42	Peak not integrated	muirm	03/08/11 13:28

Lab Sample ID: ICV 580-81563/22 Client Sample ID:

Date Analyzed: 03/03/11 16:20 Lab File ID: CC155072.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	3.42	Baseline Smoothing	muirm	03/08/11 13:28
PCB-1232 Peak 2	3.56	Baseline Smoothing	muirm	03/08/11 13:28
PCB-1232 Peak 4	4.55	Incomplete Integration	muirm	03/08/11 13:28
PCB-1232 Peak 5	4.55	Incomplete Integration	muirm	03/08/11 13:28

Lab Sample ID: IC 580-81563/30 Client Sample ID:

Date Analyzed: 03/03/11 18:13 Lab File ID: CC155080.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1268 Peak 1	7.09	Baseline Smoothing	muirm	03/08/11 10:51
PCB-1268 Peak 2	7.15	Baseline Smoothing	muirm	03/08/11 10:51
PCB-1268 Peak 3	7.29	Baseline Smoothing	muirm	03/08/11 10:51
PCB-1268 Peak 4	7.54	Baseline Smoothing	muirm	03/08/11 10:51
PCB-1268 Peak 5	7.74	Baseline Smoothing	muirm	03/08/11 10:51

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 92903

Lab Sample ID: CCVRT 580-92903/2 Client Sample ID:

Date Analyzed: 08/16/11 07:39 Lab File ID: CC158740.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.70	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1016 Peak 2	3.90	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1016 Peak 3	4.17	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1016 Peak 4	4.42	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1016 Peak 5	4.63	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 1	5.65	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 2	5.83	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 3	6.12	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 4	6.60	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 5	6.89	Baseline Smoothing	muirm	08/16/11 08:19
DCB Decachlorobiphenyl	7.67	Baseline Smoothing	muirm	08/16/11 08:19

Lab Sample ID: CCVRT 580-92903/2 Client Sample ID:

Date Analyzed: 08/16/11 07:39 Lab File ID: CC158740.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	5.77	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 2	6.01	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 3	6.23	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 4	6.75	Baseline Smoothing	muirm	08/16/11 08:19
PCB-1260 Peak 5	6.97	Baseline Smoothing	muirm	08/16/11 08:19
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/16/11 08:19

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 92903

Lab Sample ID: CCV 580-92903/3 Client Sample ID:

Date Analyzed: 08/16/11 08:25 Lab File ID: CC158742.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	3.25	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1221 Peak 2	3.33	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1221 Peak 3	3.40	Baseline Smoothing	muirm	08/16/11 08:57

Lab Sample ID: CCV 580-92903/3 Client Sample ID:

Date Analyzed: 08/16/11 08:25 Lab File ID: CC158742.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1221 Peak 1	3.31	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1221 Peak 2	3.39	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1221 Peak 3	3.45	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1254 Peak 1	5.08	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1254 Peak 2	5.30	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1254 Peak 3	5.62	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1254 Peak 4	5.88	Baseline Smoothing	muirm	08/16/11 08:57
PCB-1254 Peak 5	6.23	Baseline Smoothing	muirm	08/16/11 08:57

Lab Sample ID: MB 580-92867/1-A Client Sample ID:

Date Analyzed: 08/16/11 11:15 Lab File ID: CC158653.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	3.11	Baseline Smoothing	muirm	08/16/11 12:04
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/16/11 12:04

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 92903

Lab Sample ID: LCS 580-92867/2-A Client Sample ID:

Date Analyzed: 08/16/11 12:58 Lab File ID: CC158657.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/16/11 14:33

Lab Sample ID: 580-28005-A-21-B MS Client Sample ID:

Date Analyzed: 08/16/11 13:26 Lab File ID: CC158659.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/16/11 14:34

Lab Sample ID: 580-28005-A-21-C MSD Client Sample ID:

Date Analyzed: 08/16/11 13:41 Lab File ID: CC158660.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/16/11 14:37

Lab Sample ID: CCV 580-92903/11 Client Sample ID:

Date Analyzed: 08/16/11 14:09 Lab File ID: CC158662.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.70	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 2	3.90	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 3	4.17	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 4	4.42	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 5	4.63	Baseline Smoothing	muirm	08/16/11 14:40

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 92903

Lab Sample ID: CCV 580-92903/11 Client Sample ID:

Date Analyzed: 08/16/11 14:09 Lab File ID: CC158662.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.78	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 2	3.97	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 3	4.28	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 4	4.54	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1016 Peak 5	4.73	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1260 Peak 1	5.77	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1260 Peak 2	6.01	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1260 Peak 3	6.23	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1260 Peak 4	6.76	Baseline Smoothing	muirm	08/16/11 14:40
PCB-1260 Peak 5	6.98	Baseline Smoothing	muirm	08/16/11 14:40
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/16/11 14:40

Lab Sample ID: CCV 580-92903/16 Client Sample ID:

Date Analyzed: 08/16/11 17:03 Lab File ID: CC158665.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.70	Shouldering	muirm	08/18/11 06:54
PCB-1016 Peak 2	3.91	Shouldering	muirm	08/18/11 06:54
PCB-1016 Peak 3	4.17	Shouldering	muirm	08/18/11 06:54
PCB-1016 Peak 4	4.42	Shouldering	muirm	08/18/11 06:54
PCB-1016 Peak 5	4.63	Baseline Smoothing	muirm	08/18/11 06:54

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 92903

Lab Sample ID: CCV 580-92903/16 Client Sample ID:

Date Analyzed: 08/16/11 17:03 Lab File ID: CC158665.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	3.11	Baseline Smoothing	muirm	08/18/11 06:54
PCB-1016 Peak 1	3.77	Baseline Smoothing	muirm	08/18/11 06:54
PCB-1016 Peak 2	3.97	Baseline Smoothing	muirm	08/18/11 06:54
PCB-1016 Peak 3	4.27	Baseline Smoothing	muirm	08/18/11 06:54
PCB-1016 Peak 4	4.54	Baseline Smoothing	muirm	08/18/11 06:54
PCB-1016 Peak 5	4.72	Baseline Smoothing	muirm	08/18/11 06:54
DCB Decachlorobiphenyl	7.77	Baseline Smoothing	muirm	08/18/11 06:54

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 93679

Lab Sample ID: CCVRT 580-93679/2 Client Sample ID:

Date Analyzed: 08/25/11 11:04 Lab File ID: CC158945.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.75	Baseline Smoothing	tadesseb	08/25/11 12:39

Lab Sample ID: 580-27892-1 Client Sample ID: 11NVNCDS03

Date Analyzed: 08/25/11 12:12 Lab File ID: CC158948.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	3.00	Baseline Smoothing	tadesseb	08/25/11 12:38

Lab Sample ID: 580-27892-1 Client Sample ID: 11NVNCDS03

Date Analyzed: 08/25/11 12:12 Lab File ID: CC158948.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.76	Baseline Smoothing	tadesseb	08/25/11 12:38

Lab Sample ID: 580-27892-2 Client Sample ID: 11NVNCDS04

Date Analyzed: 08/25/11 12:26 Lab File ID: CC158949.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.66	Baseline Smoothing	tadesseb	08/25/11 12:44

Lab Sample ID: 580-27892-2 Client Sample ID: 11NVNCDS04

Date Analyzed: 08/25/11 12:26 Lab File ID: CC158949.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	7.76	Baseline Smoothing	tadesseb	08/25/11 12:44

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Analysis Batch Number: 93679

Lab Sample ID: CCV 580-93679/7 Client Sample ID:

Date Analyzed: 08/25/11 12:46 Lab File ID: CC158950.D GC Column: ZB-MR-2 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.69	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 2	3.89	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 3	4.15	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 4	4.40	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 5	4.62	Baseline Smoothing	tadesseb	08/25/11 13:48
DCB Decachlorobiphenyl	7.66	Baseline Smoothing	tadesseb	08/25/11 13:48

Lab Sample ID: CCV 580-93679/7 Client Sample ID:

Date Analyzed: 08/25/11 12:46 Lab File ID: CC158950.D GC Column: ZB-MR-1 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	3.76	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 2	3.95	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 3	4.26	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 4	4.52	Baseline Smoothing	tadesseb	08/25/11 13:48
PCB-1016 Peak 5	4.71	Baseline Smoothing	tadesseb	08/25/11 13:48

SAMPLE SUMMARY

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-27645-1	11NVNCDS001	Solid	07/24/2011 1800	07/27/2011 1005
580-27645-2	11NVNCDS002	Solid	07/25/2011 1830	07/27/2011 1005
580-27892-1	11NVNCDS03	Solid	08/04/2011 1645	08/09/2011 0850
580-27892-2	11NVNCDS04	Solid	08/05/2011 0815	08/09/2011 0850

METHOD SUMMARY

Client: Bristol Env. Remediation Services LLC | Job Number: 580-27645-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL SEA	SW846 8082/DOD	
Ultrasonic Extraction	TAL SEA		SW846 3550B
Metals (ICP/MS)	TAL SEA	SW846 6020	
TCLP Extraction	TAL SEA		SW846 1311
Preparation, Total Metals	TAL SEA		SW846 3010A

Lab References:

TAL SEA = TestAmerica Seattle

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Client: Bristol Env. Remediation Services LLC | Job Number: 580-27645-1

Client Sample ID: **11NVNCDS03**

Lab Sample ID: 580-27892-1 | Date Sampled: 08/04/2011 1645
Client Matrix: Solid | Date Received: 08/09/2011 0850

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082/DOD	Analysis Batch:	580-93679	Instrument ID:	TAC042
Prep Method:	3550B	Prep Batch:	580-92867	Initial Weight/Volume:	10.2832 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	08/25/2011 1212			Injection Volume:	1 uL
Prep Date:	08/15/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
PCB-1016		0.0049	U	0.0031	0.0097
PCB-1221		0.0078	U	0.0078	0.0097
PCB-1232		0.0078	U	0.0068	0.0097
PCB-1242		0.0049	U	0.0020	0.0097
PCB-1248		0.0029	U	0.0029	0.0097
PCB-1254		0.37		0.0020	0.0097
PCB-1260		0.0049	U	0.0029	0.0097

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	101		45 - 155
DCB Decachlorobiphenyl	77	M	60 - 125

Client: Bristol Env. Remediation Services LLC | Job Number: 580-27645-1

Client Sample ID: **11NVNCDS04**

Lab Sample ID: 580-27892-2 | Date Sampled: 08/05/2011 0815
Client Matrix: Solid | Date Received: 08/09/2011 0850

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082/DOD	Analysis Batch:	580-93679	Instrument ID:	TAC042
Prep Method:	3550B	Prep Batch:	580-92867	Initial Weight/Volume:	10.1468 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	08/25/2011 1226			Injection Volume:	1 uL
Prep Date:	08/15/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	DL	LOQ
PCB-1016		0.0049	U	0.0032	0.0099
PCB-1221		0.0079	U	0.0079	0.0099
PCB-1232		0.0079	U	0.0069	0.0099
PCB-1242		0.0049	U	0.0021	0.0099
PCB-1248		0.0030	U	0.0030	0.0099
PCB-1254		0.0049	U	0.0021	0.0099
PCB-1260		0.28		0.0030	0.0099

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	87		45 - 155
DCB Decachlorobiphenyl	90	M	60 - 125

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

Client Sample ID: **11NVNCDS001**

Lab Sample ID: 580-27645-1
Client Matrix: Solid

Date Sampled: 07/24/2011 1800
Date Received: 07/27/2011 1005

6020 Metals (ICP/MS)-TCLP

Analysis Method:	6020	Analysis Batch:	580-92209	Instrument ID:	SEA044
Prep Method:	3010A	Prep Batch:	580-92052	Lab File ID:	032SMPL.D#.raw
Dilution:	10	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 1026			Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 819				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	DL	LOQ
Lead		1.5	D	0.00034	0.0040

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

Client Sample ID: **11NVNCDS002**

Lab Sample ID: 580-27645-2
Client Matrix: Solid

Date Sampled: 07/25/2011 1830
Date Received: 07/27/2011 1005

6020 Metals (ICP/MS)-TCLP

Analysis Method:	6020	Analysis Batch:	580-92209	Instrument ID:	SEA044
Prep Method:	3010A	Prep Batch:	580-92052	Lab File ID:	033SMPL.D#.raw
Dilution:	10	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 1031			Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 819				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	DL	LOQ
Lead		10	D	0.00034	0.0040

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

Surrogate Recovery Report

8082/DOD Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
580-27892-1	11NVNCDS03	92M	101	89	77M
580-27892-2	11NVNCDS04	85	87	98M	90M
MB 580-92867/1-A		89	85M	100	110M
LCS 580-92867/2-A		91	92	96	74M
580-28005-A-21-B MS		70	71	85	72M
580-28005-A-21-C MSD		76	77	88	74M

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	45-155
DCB = DCB Decachlorobiphenyl	60-125

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

Method Blank - Batch: 580-92867

Method: 8082/DOD
Preparation: 3550B

Lab Sample ID:	MB 580-92867/1-A	Analysis Batch:	580-92903	Instrument ID:	TAC042
Client Matrix:	Solid	Prep Batch:	580-92867	Lab File ID:	CC158653.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	08/16/2011 1115	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/15/2011 1558			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	DL	LOQ
PCB-1016	0.0050	U	0.0032	0.010
PCB-1221	0.0080	U	0.0080	0.010
PCB-1232	0.0080	U	0.0070	0.010
PCB-1242	0.0050	U	0.0021	0.010
PCB-1248	0.0030	U	0.0030	0.010
PCB-1254	0.0050	U	0.0021	0.010
PCB-1260	0.0050	U	0.0030	0.010

Surrogate	% Rec		Acceptance Limits
Tetrachloro-m-xylene	85	M	45 - 155
DCB Decachlorobiphenyl	110	M	60 - 125

Lab Control Sample - Batch: 580-92867

Method: 8082/DOD
Preparation: 3550B

Lab Sample ID:	LCS 580-92867/2-A	Analysis Batch:	580-92903	Instrument ID:	TAC042
Client Matrix:	Solid	Prep Batch:	580-92867	Lab File ID:	CC158657.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	08/16/2011 1258	Units:	mg/Kg	Final Weight/Volume:	10 mL
Prep Date:	08/15/2011 1558			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	0.100	0.0880	88	40 - 140	
PCB-1260	0.100	0.0919	92	60 - 130	

Surrogate	% Rec		Acceptance Limits
Tetrachloro-m-xylene	92		45 - 155
DCB Decachlorobiphenyl	74	M	60 - 125

Client: Bristol Env. Remediation Services LLC Job Number: 580-27645-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-92867

Method: 8082/DOD
Preparation: 3550B

MS Lab Sample ID:	580-28005-A-21-B MS	Analysis Batch:	580-92903	Instrument ID:	TAC042
Client Matrix:	Solid	Prep Batch:	580-92867	Lab File ID:	CC158659.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.6229 g
Analysis Date:	08/16/2011 1326			Final Weight/Volume:	10 mL
Prep Date:	08/15/2011 1558			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	580-28005-A-21-C MSD	Analysis Batch:	580-92903	Instrument ID:	TAC042
Client Matrix:	Solid	Prep Batch:	580-92867	Lab File ID:	CC158660.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.0849 g
Analysis Date:	08/16/2011 1341			Final Weight/Volume:	10 mL
Prep Date:	08/15/2011 1558			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
PCB-1016	67	72	40 - 140	12	30		
PCB-1260	79	82	60 - 130	9	30		

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
Tetrachloro-m-xylene	71		77		45 - 155
DCB Decachlorobiphenyl	72	M	74	M	60 - 125

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-92867

Method: 8082/DOD
Preparation: 3550B

MS Lab Sample ID:	580-28005-A-21-B MS	Units:	mg/Kg	MSD Lab Sample ID:	580-28005-A-21-C MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	08/16/2011 1326			Analysis Date:	08/16/2011 1341
Prep Date:	08/15/2011 1558			Prep Date:	08/15/2011 1558
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
PCB-1016	0.0049	U	0.0941	0.0992	0.0633	0.0712
PCB-1260	0.0049	U	0.0941	0.0992	0.0745	0.0811

Method Blank - Batch: 580-92052

Method: 6020
Preparation: 3010A
TCLP

Lab Sample ID:	MB 580-91886/1-B	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	019SMPL.D#.raw
Dilution:	10	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0924	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0819				

Analyte	Result	Qual	DL	LOQ
Lead	0.00070	U	0.00034	0.0040

Method Blank - Batch: 580-92052

Method: 6020
Preparation: 3010A
TCLP

Lab Sample ID:	MB 580-91886/7-B	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	031SMPL.D#.raw
Dilution:	10	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 1021	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0904				

Analyte	Result	Qual	DL	LOQ
Lead	0.00070	U	0.00034	0.0040

LCS-Certified Reference Material - Batch: 580-92052

Method: 6020
Preparation: 3010A

Lab Sample ID:	LCSSRM	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-92052	Lab File ID:	028SMPL.D#.raw
Dilution:	50	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 1007	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	1.00	0.972	97	80 - 120	D

Client: Bristol Env. Remediation Services LLC Job Number: 580-27645-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-92052

Method: 6020
Preparation: 3010A

LCS Lab Sample ID:	LCS 580-92052/19-A	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-92052	Lab File ID:	026SMPL.D#.raw
Dilution:	50	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0957	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 580-92052/20-A	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-92052	Lab File ID:	027SMPL.D#.raw
Dilution:	50	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 1002	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	99	96	80 - 120	2	20	D	D

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-92052

Method: 6020
Preparation: 3010A

LCS Lab Sample ID:	LCS 580-92052/19-A	Units:	mg/L	LCSD Lab Sample ID:	LCSD 580-92052/20-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	50			Dilution:	50
Analysis Date:	08/05/2011 0957			Analysis Date:	08/05/2011 1002
Prep Date:	08/04/2011 1348			Prep Date:	08/04/2011 1348
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Lead	1.00	1.00	0.986	D	0.963	D

Post Digestion Spike - Batch: 580-92052

Method: 6020

Lab Sample ID:	580-27782-B-1-C PDS	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	025SMPL.D#.raw
Dilution:	50	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0953	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0819				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Lead	0.0020	J	1.00	1.05	105		D

Client: Bristol Env. Remediation Services LLC Job Number: 580-27645-1

Matrix Spike/ **Method: 6020**
Matrix Spike Duplicate Recovery Report - Batch: 580-92052

MS Lab Sample ID:	580-27782-B-1-E MS	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	023SMPL.D#.raw
Dilution:	50	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0943			Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0819				

MSD Lab Sample ID:	580-27782-B-1-F MSD	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	024SMPL.D#.raw
Dilution:	50	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0948			Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0819				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	109	105	50 - 150	4	20	D	D

Matrix Spike/ **Method: 6020**
Matrix Spike Duplicate Recovery Report - Batch: 580-92052

MS Lab Sample ID:	580-27782-B-1-E MS	Units:	mg/L	MSD Lab Sample ID:	580-27782-B-1-F MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Analysis Date:	08/05/2011 0943			Analysis Date:	08/05/2011 0948
Prep Date:	08/04/2011 1348			Prep Date:	08/04/2011 1348
Leach Date:	08/03/2011 0819			Leach Date:	08/03/2011 0819

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Lead	0.0020	J	1.00	1.00	1.09	D	1.05	D

Client: Bristol Env. Remediation Services LLC Job Number: 580-27645-1

Serial Dilution - Batch: 580-92052 **Method: 6020**

Lab Sample ID:	580-27782-B-1-C SD	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	0
Dilution:	50	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0929	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0819				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Lead	0.0020	J	0.00209	NC		J D

Duplicate - Batch: 580-92052 **Method: 6020**

Lab Sample ID:	580-27782-B-1-D DU	Analysis Batch:	580-92209	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-92052	Lab File ID:	022SMPL.D#.raw
Dilution:	10	Leach Batch:	580-91886	Initial Weight/Volume:	50 mL
Analysis Date:	08/05/2011 0938	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	08/04/2011 1348				
Leach Date:	08/03/2011 0819				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Lead	0.0020	J	0.00214	5	20	J D

DATA REPORTING QUALIFIERS

Client: Bristol Env. Remediation Services LLC Job Number: 580-27645-1

Lab Section	Qualifier	Description
GC Semi VOA		
	M	Manual integrated compound.
	U	Undetected at the Limit of Detection.
Metals		
	J	Estimated: The analyte was positively identified; the quantitation is an estimation
	D	The reported value is from a dilution.
	U	Undetected at the Limit of Detection.

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 580-92867					
LCS 580-92867/2-A	Lab Control Sample	T	Solid	3550B	
MB 580-92867/1-A	Method Blank	T	Solid	3550B	
580-27892-1	11NVNCDS03	T	Solid	3550B	
580-27892-2	11NVNCDS04	T	Solid	3550B	
580-28005-A-21-B MS	Matrix Spike	T	Solid	3550B	
580-28005-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3550B	
Analysis Batch:580-92903					
LCS 580-92867/2-A	Lab Control Sample	T	Solid	8082/DOD	580-92867
MB 580-92867/1-A	Method Blank	T	Solid	8082/DOD	580-92867
580-28005-A-21-B MS	Matrix Spike	T	Solid	8082/DOD	580-92867
580-28005-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8082/DOD	580-92867
Analysis Batch:580-93679					
580-27892-1	11NVNCDS03	T	Solid	8082/DOD	580-92867
580-27892-2	11NVNCDS04	T	Solid	8082/DOD	580-92867

Report Basis

T = Total

Client: Bristol Env. Remediation Services LLC

Job Number: 580-27645-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-91886					
MB 580-91886/1-B	Method Blank	P	Solid	1311	
MB 580-91886/7-B	Method Blank	P	Solid	1311	
580-27645-1	11NVNCDS001	P	Solid	1311	
580-27645-2	11NVNCDS002	P	Solid	1311	
580-27782-B-1-D DU	Duplicate		Solid	1311	
580-27782-B-1-E MS	Matrix Spike		Solid	1311	
580-27782-B-1-F MSD	Matrix Spike Duplicate		Solid	1311	
Prep Batch: 580-92052					
LCS 580-92052/19-A	Lab Control Sample	T	Water	3010A	
LCSD 580-92052/20-A	Lab Control Sample Duplicate	T	Water	3010A	
LCSSRM 580-92052/21-A	LCS-Certified Reference Material	T	Water	3010A	
MB 580-91886/1-B	Method Blank	P	Solid	3010A	580-91886
MB 580-91886/7-B	Method Blank	P	Solid	3010A	580-91886
580-27645-1	11NVNCDS001	P	Solid	3010A	580-91886
580-27645-2	11NVNCDS002	P	Solid	3010A	580-91886
580-27782-B-1-D DU	Duplicate		Solid	3010A	580-91886
580-27782-B-1-E MS	Matrix Spike		Solid	3010A	580-91886
580-27782-B-1-F MSD	Matrix Spike Duplicate		Solid	3010A	580-91886
Analysis Batch:580-92209					
MB 580-91886/1-B	Method Blank	P	Solid	6020	580-92052
MB 580-91886/7-B	Method Blank	P	Solid	6020	580-92052
LCS 580-92052/19-A	Lab Control Sample	T	Water	6020	580-92052
LCSD 580-92052/20-A	Lab Control Sample Duplicate	T	Water	6020	580-92052
LCSSRM 580-92052/21-A	LCS-Certified Reference Material	T	Water	6020	580-92052
580-27645-1	11NVNCDS001	P	Solid	6020	580-92052
580-27645-2	11NVNCDS002	P	Solid	6020	580-92052
580-27782-B-1-D DU	Duplicate		Solid	6020	580-92052
580-27782-B-1-E MS	Matrix Spike		Solid	6020	580-92052
580-27782-B-1-F MSD	Matrix Spike Duplicate		Solid	6020	580-92052

Report Basis

P = TCLP

T = Total

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
1242ICVStd_00005	09/03/11	09/03/10	Hexane, Lot H33E04	10 mL	1242ICVStk_00004	100 uL	PCB-1242	100 ug/L
							PCB-1242 Peak 1	100 ug/L
							PCB-1242 Peak 2	100 ug/L
							PCB-1242 Peak 3	100 ug/L
							PCB-1242 Peak 4	100 ug/L
							PCB-1242 Peak 5	100 ug/L
							DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10 ug/L
.1242ICVStk_00004	09/03/11	09/03/10	Hexane, Lot H33E04	100 mL	Arclr1242S_00003	1000 uL	PCB-1242	10000 ug/L
							PCB-1242 Peak 1	10000 ug/L
							PCB-1242 Peak 2	10000 ug/L
							PCB-1242 Peak 3	10000 ug/L
							PCB-1242 Peak 4	10000 ug/L
							PCB-1242 Peak 5	10000 ug/L
					DCBTCMXstk_00006	500 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000 ug/L
..Arclr1242S_00003	10/01/14		Restek, Lot A055049		(Purchased Reagent)		PCB-1242	1000 ug/mL
							PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
..DCBTCMXstk_00006	11/01/11		Supelco, Lot LB63087		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
1660IC10_00012	10/01/11	02/22/11	Hexane, Lot J34E43	10 mL	1660_ICSTK_00006	0.01 mL	DCB Decachlorobiphenyl	1 ug/L
							Tetrachloro-m-xylene	1.00009 ug/L
							PCB-1016 Peak 1	10 ug/L
							PCB-1016 Peak 2	10 ug/L
							PCB-1016 Peak 3	10 ug/L
							PCB-1016 Peak 4	10 ug/L
							PCB-1016 Peak 5	10 ug/L
							PCB-1260 Peak 1	10 ug/L
							PCB-1260 Peak 2	10 ug/L
							PCB-1260 Peak 3	10 ug/L
							PCB-1260 Peak 4	10 ug/L
							PCB-1260 Peak 5	10 ug/L
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660IC100_00015	10/01/11	02/22/11	Hexane, Lot J34E43	10 mL	1660_ICSTK_00006	0.1 mL	DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10.0009 ug/L
							PCB-1016 Peak 1	100 ug/L
							PCB-1016 Peak 2	100 ug/L
							PCB-1016 Peak 3	100 ug/L
							PCB-1016 Peak 4	100 ug/L
							PCB-1016 Peak 5	100 ug/L
							PCB-1260 Peak 1	100 ug/L
							PCB-1260 Peak 2	100 ug/L
							PCB-1260 Peak 3	100 ug/L
							PCB-1260 Peak 4	100 ug/L
							PCB-1260 Peak 5	100 ug/L
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660IC100_00017	10/01/11	04/25/11	Hexane, Lot 632932	10 mL	1660_ICSTK_00006	0.1 mL	DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10.0009 ug/L
							PCB-1016	100 ug/L
							PCB-1016 Peak 1	100 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	100 ug/L
							PCB-1016 Peak 3	100 ug/L
							PCB-1016 Peak 4	100 ug/L
							PCB-1016 Peak 5	100 ug/L
							PCB-1260	100 ug/L
							PCB-1260 Peak 1	100 ug/L
							PCB-1260 Peak 2	100 ug/L
							PCB-1260 Peak 3	100 ug/L
							PCB-1260 Peak 4	100 ug/L
							PCB-1260 Peak 5	100 ug/L
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016	10000 ug/L
							PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260	10000 ug/L
							PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660IC1000_00005	10/01/11	02/22/11	Hexane, Lot J34E43	10 mL	1660_ICSTK_00006	1 mL	DCB Decachlorobiphenyl	100 ug/L
							Tetrachloro-m-xylene	100.009 ug/L
							PCB-1016 Peak 1	1000 ug/L
							PCB-1016 Peak 2	1000 ug/L
							PCB-1016 Peak 3	1000 ug/L
							PCB-1016 Peak 4	1000 ug/L
							PCB-1016 Peak 5	1000 ug/L
							PCB-1260 Peak 1	1000 ug/L
							PCB-1260 Peak 2	1000 ug/L
							PCB-1260 Peak 3	1000 ug/L
							PCB-1260 Peak 4	1000 ug/L
							PCB-1260 Peak 5	1000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660IC20_00011	10/01/11	02/22/11	Hexane, Lot J34E43	10 mL	1660_ICSTK_00006	0.02 mL	DCB Decachlorobiphenyl	2 ug/L
							Tetrachloro-m-xylene	2.00018 ug/L
							PCB-1016 Peak 1	20 ug/L
							PCB-1016 Peak 2	20 ug/L
							PCB-1016 Peak 3	20 ug/L
							PCB-1016 Peak 4	20 ug/L
							PCB-1016 Peak 5	20 ug/L
							PCB-1260 Peak 1	20 ug/L
							PCB-1260 Peak 2	20 ug/L
							PCB-1260 Peak 3	20 ug/L
							PCB-1260 Peak 4	20 ug/L
							PCB-1260 Peak 5	20 ug/L
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660IC50_00011	10/01/11	02/22/11	Hexane, Lot J34E43	10 mL	1660_ICSTK_00006	0.05 mL	DCB Decachlorobiphenyl	5 ug/L
							Tetrachloro-m-xylene	5.00045 ug/L
							PCB-1016 Peak 1	50 ug/L
							PCB-1016 Peak 2	50 ug/L
							PCB-1016 Peak 3	50 ug/L
							PCB-1016 Peak 4	50 ug/L
							PCB-1016 Peak 5	50 ug/L
							PCB-1260 Peak 1	50 ug/L
							PCB-1260 Peak 2	50 ug/L
							PCB-1260 Peak 3	50 ug/L
							PCB-1260 Peak 4	50 ug/L
							PCB-1260 Peak 5	50 ug/L
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660IC500_00011	10/01/11	02/22/11	Hexane, Lot J34E43	10 mL	1660_ICSTK_00006	0.5 mL	DCB Decachlorobiphenyl	50 ug/L
							Tetrachloro-m-xylene	50.0045 ug/L
							PCB-1016 Peak 1	500 ug/L
							PCB-1016 Peak 2	500 ug/L

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	500 ug/L
							PCB-1016 Peak 4	500 ug/L
							PCB-1016 Peak 5	500 ug/L
							PCB-1260 Peak 1	500 ug/L
							PCB-1260 Peak 2	500 ug/L
							PCB-1260 Peak 3	500 ug/L
							PCB-1260 Peak 4	500 ug/L
							PCB-1260 Peak 5	500 ug/L
.1660_ICSTK_00006	10/01/11	10/16/09	Hexane, Lot J34E43	10 mL	8081SURRSEC_00001	50 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000.09 ug/L
					Arclr1016P_00004	100 uL	PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
					Arclr1260P_00003	100 uL	PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
..8081SURRSEC_00001	07/06/16		Restek, Lot A065184		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL
..Arclr1016P_00004	01/01/12		Supelco, Lot LB64420		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
..Arclr1260P_00003	10/01/11		Supelco, Lot LB61177		(Purchased Reagent)		PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
1660ICVStd_00004	09/03/11	09/03/10	HEXANES, Lot H33E04	10 mL	1660ICVStk_00005	100 uL	PCB-1016	100 ug/L
							PCB-1016 Peak 1	100 ug/L
							PCB-1016 Peak 2	100 ug/L
							PCB-1016 Peak 3	100 ug/L
							PCB-1016 Peak 4	100 ug/L
							PCB-1016 Peak 5	100 ug/L
							PCB-1260	100 ug/L
							PCB-1260 Peak 1	100 ug/L
							PCB-1260 Peak 2	100 ug/L
							PCB-1260 Peak 3	100 ug/L
							PCB-1260 Peak 4	100 ug/L
							PCB-1260 Peak 5	100 ug/L
							DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10 ug/L
.1660ICVStk_00005	09/03/11	09/03/10	HEXANES, Lot H33E04	100 mL	1660restek_00003	1000 uL	PCB-1016	10000 ug/L
							PCB-1016 Peak 1	10000 ug/L
							PCB-1016 Peak 2	10000 ug/L
							PCB-1016 Peak 3	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 4	10000 ug/L
							PCB-1016 Peak 5	10000 ug/L
							PCB-1260	10000 ug/L
							PCB-1260 Peak 1	10000 ug/L
							PCB-1260 Peak 2	10000 ug/L
							PCB-1260 Peak 3	10000 ug/L
							PCB-1260 Peak 4	10000 ug/L
							PCB-1260 Peak 5	10000 ug/L
					DCBTCMXstk_00006	500 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000 ug/L
..1660restek_00003	05/24/14		restek, Lot A051448		(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
..DCBTCMXstk_00006	11/01/11		Supelco, Lot LB63087		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
2154IC10_00008	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	2154_ICSTK_00004	10 uL	PCB-1221 Peak 1	10 ug/L
							PCB-1221 Peak 2	10 ug/L
							PCB-1221 Peak 3	10 ug/L
							PCB-1254 Peak 1	10 ug/L
							PCB-1254 Peak 2	10 ug/L
							PCB-1254 Peak 3	10 ug/L
							PCB-1254 Peak 4	10 ug/L
							PCB-1254 Peak 5	10 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
2154IC100_00007	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	2154_ICSTK_00004	100 uL	PCB-1221 Peak 1	100 ug/L
							PCB-1221 Peak 2	100 ug/L

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 3	100 ug/L
							PCB-1254 Peak 1	100 ug/L
							PCB-1254 Peak 2	100 ug/L
							PCB-1254 Peak 3	100 ug/L
							PCB-1254 Peak 4	100 ug/L
							PCB-1254 Peak 5	100 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
2154IC100_00008	09/10/11	05/25/11	Hexane, Lot 95% n-hexane_00011	10 mL	2154_ICSTK_00004	100 uL	PCB-1221	100 ug/L
							PCB-1221 Peak 1	100 ug/L
							PCB-1221 Peak 2	100 ug/L
							PCB-1221 Peak 3	100 ug/L
							PCB-1254	100 ug/L
							PCB-1254 Peak 1	100 ug/L
							PCB-1254 Peak 2	100 ug/L
							PCB-1254 Peak 3	100 ug/L
							PCB-1254 Peak 4	100 ug/L
							PCB-1254 Peak 5	100 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221	10000 ug/L
							PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254	10000 ug/L
							PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221	1000 ug/mL
							PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
2154IC1000_00002	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	2154_ICSTK_00004	1000 uL	PCB-1221 Peak 1	1000 ug/L
							PCB-1221 Peak 2	1000 ug/L
							PCB-1221 Peak 3	1000 ug/L
							PCB-1254 Peak 1	1000 ug/L
							PCB-1254 Peak 2	1000 ug/L
							PCB-1254 Peak 3	1000 ug/L
							PCB-1254 Peak 4	1000 ug/L
							PCB-1254 Peak 5	1000 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
2154IC20_00007	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	2154_ICSTK_00004	20 uL	PCB-1221 Peak 1	20 ug/L
							PCB-1221 Peak 2	20 ug/L
							PCB-1221 Peak 3	20 ug/L
							PCB-1254 Peak 1	20 ug/L
							PCB-1254 Peak 2	20 ug/L
							PCB-1254 Peak 3	20 ug/L
							PCB-1254 Peak 4	20 ug/L
							PCB-1254 Peak 5	20 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 5	1000 ug/mL
2154IC50_00007	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	2154_ICSTK_00004	50 uL	PCB-1221 Peak 1	50 ug/L
							PCB-1221 Peak 2	50 ug/L
							PCB-1221 Peak 3	50 ug/L
							PCB-1254 Peak 1	50 ug/L
							PCB-1254 Peak 2	50 ug/L
							PCB-1254 Peak 3	50 ug/L
							PCB-1254 Peak 4	50 ug/L
							PCB-1254 Peak 5	50 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
2154IC500_00007	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	2154_ICSTK_00004	500 uL	PCB-1221 Peak 1	500 ug/L
							PCB-1221 Peak 2	500 ug/L
							PCB-1221 Peak 3	500 ug/L
							PCB-1254 Peak 1	500 ug/L
							PCB-1254 Peak 2	500 ug/L
							PCB-1254 Peak 3	500 ug/L
							PCB-1254 Peak 4	500 ug/L
							PCB-1254 Peak 5	500 ug/L
.2154_ICSTK_00004	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1221P_00004	100 uL	PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254P_00003	100 uL	PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
..Arclr1221P_00004	01/01/12		Supelco, Lot LB64213		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254P_00003	01/01/12		Supelco, Lot LB64150		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
2154ICVStd_00004	09/03/11	09/03/10	Hexane, Lot H33E04	10 mL	2154ICVStk_00004	100 uL	PCB-1221	100 ug/L
							PCB-1221 Peak 1	100 ug/L
							PCB-1221 Peak 2	100 ug/L
							PCB-1221 Peak 3	100 ug/L
							PCB-1254	100 ug/L
							PCB-1254 Peak 1	100 ug/L
							PCB-1254 Peak 2	100 ug/L
							PCB-1254 Peak 3	100 ug/L
							PCB-1254 Peak 4	100 ug/L
							PCB-1254 Peak 5	100 ug/L
							DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10 ug/L
.2154ICVStk_00004	09/03/11	09/03/10	HEXANES, Lot H33E04	100 mL	Arclr1221S_00003	1000 uL	PCB-1221	10000 ug/L
							PCB-1221 Peak 1	10000 ug/L
							PCB-1221 Peak 2	10000 ug/L
							PCB-1221 Peak 3	10000 ug/L
					Arclr1254S_00004	1000 uL	PCB-1254	10000 ug/L
							PCB-1254 Peak 1	10000 ug/L
							PCB-1254 Peak 2	10000 ug/L
							PCB-1254 Peak 3	10000 ug/L
							PCB-1254 Peak 4	10000 ug/L
							PCB-1254 Peak 5	10000 ug/L
					DCBTCMXstk_00006	500 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000 ug/L
..Arclr1221S_00003	10/14/14		Restek, Lot A055042		(Purchased Reagent)		PCB-1221	1000 ug/mL
							PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..Arclr1254S_00004	07/30/13		RESTEK, Lot A045836		(Purchased Reagent)		PCB-1254	1000 ug/mL
							PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
..DCBTCMXstk_00006	11/01/11		Supelco, Lot LB63087		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
3262IC10_00010	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	3262_ICSTK_00006	10 uL	PCB-1232 Peak 1	10 ug/L
							PCB-1232 Peak 2	10 ug/L
							PCB-1232 Peak 3	10 ug/L
							PCB-1232 Peak 4	10 ug/L
							PCB-1232 Peak 5	10 ug/L
							PCB-1262 Peak 1	10.1 ug/L
							PCB-1262 Peak 2	10.1 ug/L
							PCB-1262 Peak 3	10.1 ug/L
							PCB-1262 Peak 4	10.1 ug/L
							PCB-1262 Peak 5	10.1 ug/L
.3262_ICSTK_00006	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	Arclr1232P_00005	100 uL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	10000 ug/L
					Arclr1262P_00006	100 uL	PCB-1262 Peak 1	10100 ug/L
							PCB-1262 Peak 2	10100 ug/L
							PCB-1262 Peak 3	10100 ug/L
							PCB-1262 Peak 4	10100 ug/L
							PCB-1262 Peak 5	10100 ug/L
..Arclr1232P_00005	04/01/13		Supelco, Lot LB57806		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..Arclr1262P_00006	07/31/12		Supelco, Lot LB68016		(Purchased Reagent)		PCB-1262 Peak 1	1010 ug/mL
							PCB-1262 Peak 2	1010 ug/mL
							PCB-1262 Peak 3	1010 ug/mL
							PCB-1262 Peak 4	1010 ug/mL
							PCB-1262 Peak 5	1010 ug/mL
3262IC100_00008	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	3262_ICSTK_00006	100 uL	PCB-1232 Peak 1	100 ug/L
							PCB-1232 Peak 2	100 ug/L
							PCB-1232 Peak 3	100 ug/L
							PCB-1232 Peak 4	100 ug/L
							PCB-1232 Peak 5	100 ug/L
							PCB-1262 Peak 1	101 ug/L
							PCB-1262 Peak 2	101 ug/L
							PCB-1262 Peak 3	101 ug/L
							PCB-1262 Peak 4	101 ug/L
							PCB-1262 Peak 5	101 ug/L
.3262_ICSTK_00006	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	Arclr1232P_00005	100 uL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					Arclr1262P_00006	100 uL	PCB-1262 Peak 1	10100 ug/L
							PCB-1262 Peak 2	10100 ug/L
							PCB-1262 Peak 3	10100 ug/L
							PCB-1262 Peak 4	10100 ug/L
							PCB-1262 Peak 5	10100 ug/L
..Arclr1232P_00005	04/01/13		Supelco, Lot LB57806		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..Arclr1262P_00006	07/31/12		Supelco, Lot LB68016		(Purchased Reagent)		PCB-1262 Peak 1	1010 ug/mL
							PCB-1262 Peak 2	1010 ug/mL
							PCB-1262 Peak 3	1010 ug/mL
							PCB-1262 Peak 4	1010 ug/mL
							PCB-1262 Peak 5	1010 ug/mL
3262IC1000_00004	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	3262_ICSTK_00006	1 mL	PCB-1232 Peak 1	1000 ug/L
							PCB-1232 Peak 2	1000 ug/L
							PCB-1232 Peak 3	1000 ug/L
							PCB-1232 Peak 4	1000 ug/L

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	1000 ug/L
							PCB-1262 Peak 1	1010 ug/L
							PCB-1262 Peak 2	1010 ug/L
							PCB-1262 Peak 3	1010 ug/L
							PCB-1262 Peak 4	1010 ug/L
							PCB-1262 Peak 5	1010 ug/L
.3262_ICSTK_00006	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	Arclr1232P_00005	100 uL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					Arclr1262P_00006	100 uL	PCB-1262 Peak 1	10100 ug/L
							PCB-1262 Peak 2	10100 ug/L
							PCB-1262 Peak 3	10100 ug/L
							PCB-1262 Peak 4	10100 ug/L
							PCB-1262 Peak 5	10100 ug/L
..Arclr1232P_00005	04/01/13		Supelco, Lot LB57806		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..Arclr1262P_00006	07/31/12		Supelco, Lot LB68016		(Purchased Reagent)		PCB-1262 Peak 1	1010 ug/mL
							PCB-1262 Peak 2	1010 ug/mL
							PCB-1262 Peak 3	1010 ug/mL
							PCB-1262 Peak 4	1010 ug/mL
							PCB-1262 Peak 5	1010 ug/mL
3262IC20_00008	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	3262_ICSTK_00006	20 uL	PCB-1232 Peak 1	20 ug/L
							PCB-1232 Peak 2	20 ug/L
							PCB-1232 Peak 3	20 ug/L
							PCB-1232 Peak 4	20 ug/L
							PCB-1232 Peak 5	20 ug/L
							PCB-1262 Peak 1	20.2 ug/L
							PCB-1262 Peak 2	20.2 ug/L
							PCB-1262 Peak 3	20.2 ug/L
							PCB-1262 Peak 4	20.2 ug/L
							PCB-1262 Peak 5	20.2 ug/L
.3262_ICSTK_00006	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	Arclr1232P_00005	100 uL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					Arclr1262P_00006	100 uL	PCB-1262 Peak 1	10100 ug/L
							PCB-1262 Peak 2	10100 ug/L
							PCB-1262 Peak 3	10100 ug/L
							PCB-1262 Peak 4	10100 ug/L
							PCB-1262 Peak 5	10100 ug/L
..Arclr1232P_00005	04/01/13		Supelco, Lot LB57806		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	1000 ug/mL
..Arclr1262P_00006	07/31/12		Supelco, Lot LB68016		(Purchased Reagent)		PCB-1262 Peak 1	1010 ug/mL
							PCB-1262 Peak 2	1010 ug/mL
							PCB-1262 Peak 3	1010 ug/mL
							PCB-1262 Peak 4	1010 ug/mL
							PCB-1262 Peak 5	1010 ug/mL
3262IC50_00008	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	3262_ICSTK_00006	50 uL	PCB-1232 Peak 1	50 ug/L
							PCB-1232 Peak 2	50 ug/L
							PCB-1232 Peak 3	50 ug/L
							PCB-1232 Peak 4	50 ug/L
							PCB-1232 Peak 5	50 ug/L
							PCB-1262 Peak 1	50.5 ug/L
							PCB-1262 Peak 2	50.5 ug/L
							PCB-1262 Peak 3	50.5 ug/L
							PCB-1262 Peak 4	50.5 ug/L
							PCB-1262 Peak 5	50.5 ug/L
.3262_ICSTK_00006	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	Arclr1232P_00005	100 uL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					Arclr1262P_00006	100 uL	PCB-1262 Peak 1	10100 ug/L
							PCB-1262 Peak 2	10100 ug/L
							PCB-1262 Peak 3	10100 ug/L
							PCB-1262 Peak 4	10100 ug/L
							PCB-1262 Peak 5	10100 ug/L
..Arclr1232P_00005	04/01/13		Supelco, Lot LB57806		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..Arclr1262P_00006	07/31/12		Supelco, Lot LB68016		(Purchased Reagent)		PCB-1262 Peak 1	1010 ug/mL
							PCB-1262 Peak 2	1010 ug/mL
							PCB-1262 Peak 3	1010 ug/mL
							PCB-1262 Peak 4	1010 ug/mL
							PCB-1262 Peak 5	1010 ug/mL
3262IC500_00007	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	3262_ICSTK_00006	500 uL	PCB-1232 Peak 1	500 ug/L
							PCB-1232 Peak 2	500 ug/L
							PCB-1232 Peak 3	500 ug/L
							PCB-1232 Peak 4	500 ug/L
							PCB-1232 Peak 5	500 ug/L
							PCB-1262 Peak 1	505 ug/L
							PCB-1262 Peak 2	505 ug/L
							PCB-1262 Peak 3	505 ug/L
							PCB-1262 Peak 4	505 ug/L
							PCB-1262 Peak 5	505 ug/L
.3262_ICSTK_00006	09/03/11	03/03/11	Hexane, Lot 632932	10 mL	Arclr1232P_00005	100 uL	PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	10000 ug/L
					Arclr1262P_00006	100 uL	PCB-1262 Peak 1	10100 ug/L
							PCB-1262 Peak 2	10100 ug/L
							PCB-1262 Peak 3	10100 ug/L
							PCB-1262 Peak 4	10100 ug/L
							PCB-1262 Peak 5	10100 ug/L
..Arclr1232P_00005	04/01/13		Supelco, Lot LB57806		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..Arclr1262P_00006	07/31/12		Supelco, Lot LB68016		(Purchased Reagent)		PCB-1262 Peak 1	1010 ug/mL
							PCB-1262 Peak 2	1010 ug/mL
							PCB-1262 Peak 3	1010 ug/mL
							PCB-1262 Peak 4	1010 ug/mL
							PCB-1262 Peak 5	1010 ug/mL
3262ICVStd_00007	09/03/11	09/03/10	Hexane, Lot H33E04	10 mL	3262ICVStk_00005	100 uL	PCB-1232	100 ug/L
							PCB-1232 Peak 1	100 ug/L
							PCB-1232 Peak 2	100 ug/L
							PCB-1232 Peak 3	100 ug/L
							PCB-1232 Peak 4	100 ug/L
							PCB-1232 Peak 5	100 ug/L
							DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10 ug/L
.3262ICVStk_00005	09/03/11	09/03/10	HEXANES, Lot H33E04	100 mL	Arclr1232S_00003	1000 uL	PCB-1232	10000 ug/L
							PCB-1232 Peak 1	10000 ug/L
							PCB-1232 Peak 2	10000 ug/L
							PCB-1232 Peak 3	10000 ug/L
							PCB-1232 Peak 4	10000 ug/L
							PCB-1232 Peak 5	10000 ug/L
					DCBTCMXstk_00006	500 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000 ug/L
..Arclr1232S_00003	10/30/14		RESTEK, Lot A055045		(Purchased Reagent)		PCB-1232	1000 ug/mL
							PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
..DCBTCMXstk_00006	11/01/11		Supelco, Lot LB63087		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
42IC10_00009	04/21/11	10/21/10	Hexane, Lot h49e38	10 mL	42_ICSTK_00006	10 uL	PCB-1242 Peak 1	10.014 ug/L
							PCB-1242 Peak 2	10.014 ug/L
							PCB-1242 Peak 3	10.014 ug/L
							PCB-1242 Peak 4	10.014 ug/L
							PCB-1242 Peak 5	10.014 ug/L
.42_ICSTK_00006	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1242P_00004	100 uL	PCB-1242 Peak 1	10014 ug/L
							PCB-1242 Peak 2	10014 ug/L
							PCB-1242 Peak 3	10014 ug/L
							PCB-1242 Peak 4	10014 ug/L
							PCB-1242 Peak 5	10014 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..Arclr1242P_00004	10/31/19		Supelco, Lot LB71443		(Purchased Reagent)		PCB-1242 Peak 1	1001.4 ug/mL
							PCB-1242 Peak 2	1001.4 ug/mL
							PCB-1242 Peak 3	1001.4 ug/mL
							PCB-1242 Peak 4	1001.4 ug/mL
							PCB-1242 Peak 5	1001.4 ug/mL
42IC100_00008	04/20/11	10/20/10	Hexane, Lot h49e38	10 mL	42_ICSTK_00006	100 uL	PCB-1242 Peak 1	100.14 ug/L
							PCB-1242 Peak 2	100.14 ug/L
							PCB-1242 Peak 3	100.14 ug/L
							PCB-1242 Peak 4	100.14 ug/L
							PCB-1242 Peak 5	100.14 ug/L
.42_ICSTK_00006	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1242P_00004	100 uL	PCB-1242 Peak 1	10014 ug/L
							PCB-1242 Peak 2	10014 ug/L
							PCB-1242 Peak 3	10014 ug/L
							PCB-1242 Peak 4	10014 ug/L
							PCB-1242 Peak 5	10014 ug/L
..Arclr1242P_00004	10/31/19		Supelco, Lot LB71443		(Purchased Reagent)		PCB-1242 Peak 1	1001.4 ug/mL
							PCB-1242 Peak 2	1001.4 ug/mL
							PCB-1242 Peak 3	1001.4 ug/mL
							PCB-1242 Peak 4	1001.4 ug/mL
							PCB-1242 Peak 5	1001.4 ug/mL
42IC1000_00003	04/21/11	10/21/10	Hexane, Lot h49e38	10 mL	42_ICSTK_00006	1000 uL	PCB-1242 Peak 1	1001.4 ug/L
							PCB-1242 Peak 2	1001.4 ug/L
							PCB-1242 Peak 3	1001.4 ug/L
							PCB-1242 Peak 4	1001.4 ug/L
							PCB-1242 Peak 5	1001.4 ug/L
.42_ICSTK_00006	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1242P_00004	100 uL	PCB-1242 Peak 1	10014 ug/L
							PCB-1242 Peak 2	10014 ug/L
							PCB-1242 Peak 3	10014 ug/L
							PCB-1242 Peak 4	10014 ug/L
							PCB-1242 Peak 5	10014 ug/L
..Arclr1242P_00004	10/31/19		Supelco, Lot LB71443		(Purchased Reagent)		PCB-1242 Peak 1	1001.4 ug/mL
							PCB-1242 Peak 2	1001.4 ug/mL
							PCB-1242 Peak 3	1001.4 ug/mL
							PCB-1242 Peak 4	1001.4 ug/mL
							PCB-1242 Peak 5	1001.4 ug/mL
42IC20_00008	04/21/11	10/21/10	Hexane, Lot h49e38	10 mL	42_ICSTK_00006	20 uL	PCB-1242 Peak 1	20.028 ug/L
							PCB-1242 Peak 2	20.028 ug/L
							PCB-1242 Peak 3	20.028 ug/L
							PCB-1242 Peak 4	20.028 ug/L
							PCB-1242 Peak 5	20.028 ug/L
.42_ICSTK_00006	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1242P_00004	100 uL	PCB-1242 Peak 1	10014 ug/L
							PCB-1242 Peak 2	10014 ug/L
							PCB-1242 Peak 3	10014 ug/L
							PCB-1242 Peak 4	10014 ug/L
							PCB-1242 Peak 5	10014 ug/L
..Arclr1242P_00004	10/31/19		Supelco, Lot LB71443		(Purchased Reagent)		PCB-1242 Peak 1	1001.4 ug/mL
							PCB-1242 Peak 2	1001.4 ug/mL
							PCB-1242 Peak 3	1001.4 ug/mL
							PCB-1242 Peak 4	1001.4 ug/mL

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 5	1001.4 ug/mL
42IC50_00008	04/21/11	10/21/10	Hexane, Lot h49e38	10 mL	42_ICSTK_00006	50 uL	PCB-1242 Peak 1	50.07 ug/L
							PCB-1242 Peak 2	50.07 ug/L
							PCB-1242 Peak 3	50.07 ug/L
							PCB-1242 Peak 4	50.07 ug/L
							PCB-1242 Peak 5	50.07 ug/L
.42_ICSTK_00006	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1242P_00004	100 uL	PCB-1242 Peak 1	10014 ug/L
							PCB-1242 Peak 2	10014 ug/L
							PCB-1242 Peak 3	10014 ug/L
							PCB-1242 Peak 4	10014 ug/L
							PCB-1242 Peak 5	10014 ug/L
..Arclr1242P_00004	10/31/19	Supelco, Lot LB71443			(Purchased Reagent)		PCB-1242 Peak 1	1001.4 ug/mL
							PCB-1242 Peak 2	1001.4 ug/mL
							PCB-1242 Peak 3	1001.4 ug/mL
							PCB-1242 Peak 4	1001.4 ug/mL
							PCB-1242 Peak 5	1001.4 ug/mL
42IC500_00008	04/21/11	10/21/10	Hexane, Lot h49e38	10 mL	42_ICSTK_00006	500 uL	PCB-1242 Peak 1	500.7 ug/L
							PCB-1242 Peak 2	500.7 ug/L
							PCB-1242 Peak 3	500.7 ug/L
							PCB-1242 Peak 4	500.7 ug/L
							PCB-1242 Peak 5	500.7 ug/L
.42_ICSTK_00006	09/10/11	09/10/10	Hexane, Lot h49e38	10 mL	Arclr1242P_00004	100 uL	PCB-1242 Peak 1	10014 ug/L
							PCB-1242 Peak 2	10014 ug/L
							PCB-1242 Peak 3	10014 ug/L
							PCB-1242 Peak 4	10014 ug/L
							PCB-1242 Peak 5	10014 ug/L
..Arclr1242P_00004	10/31/19	Supelco, Lot LB71443			(Purchased Reagent)		PCB-1242 Peak 1	1001.4 ug/mL
							PCB-1242 Peak 2	1001.4 ug/mL
							PCB-1242 Peak 3	1001.4 ug/mL
							PCB-1242 Peak 4	1001.4 ug/mL
							PCB-1242 Peak 5	1001.4 ug/mL
4868IC10_00008	09/13/11	09/13/10	Hexane, Lot h49e38	10 mL	4868_ICSTK_00005	10 uL	PCB-1248 Peak 1	10.009 ug/L
							PCB-1248 Peak 2	10.009 ug/L
							PCB-1248 Peak 3	10.009 ug/L
							PCB-1248 Peak 4	10.009 ug/L
							PCB-1248 Peak 5	10.009 ug/L
							PCB-1268 Peak 1	10.17 ug/L
							PCB-1268 Peak 2	10.17 ug/L
							PCB-1268 Peak 3	10.17 ug/L
							PCB-1268 Peak 4	10.17 ug/L
							PCB-1268 Peak 5	10.17 ug/L
.4868_ICSTK_00005	10/13/11	09/13/10	Hexane, Lot h49e38	10 mL	Arclr1248P_00004	100 uL	PCB-1248 Peak 1	10009 ug/L
							PCB-1248 Peak 2	10009 ug/L
							PCB-1248 Peak 3	10009 ug/L
							PCB-1248 Peak 4	10009 ug/L
							PCB-1248 Peak 5	10009 ug/L
					Arclr1268P_00005	100 uL	PCB-1268 Peak 1	10170 ug/L
							PCB-1268 Peak 2	10170 ug/L
							PCB-1268 Peak 3	10170 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	10170 ug/L
							PCB-1268 Peak 5	10170 ug/L
..Arclr1248P_00004	08/30/18		Supelco, Lot LB70699		(Purchased Reagent)		PCB-1248 Peak 1	1000.9 ug/mL
							PCB-1248 Peak 2	1000.9 ug/mL
							PCB-1248 Peak 3	1000.9 ug/mL
							PCB-1248 Peak 4	1000.9 ug/mL
							PCB-1248 Peak 5	1000.9 ug/mL
..Arclr1268P_00005	01/31/12		Supelco, Lot LB63979		(Purchased Reagent)		PCB-1268 Peak 1	1017 ug/mL
							PCB-1268 Peak 2	1017 ug/mL
							PCB-1268 Peak 3	1017 ug/mL
							PCB-1268 Peak 4	1017 ug/mL
							PCB-1268 Peak 5	1017 ug/mL
4868IC100_00007	09/13/11	09/13/10	Hexane, Lot h49e38	10 mL	4868_ICSTK_00005	100 uL	PCB-1248 Peak 1	100.09 ug/L
							PCB-1248 Peak 2	100.09 ug/L
							PCB-1248 Peak 3	100.09 ug/L
							PCB-1248 Peak 4	100.09 ug/L
							PCB-1248 Peak 5	100.09 ug/L
							PCB-1268 Peak 1	101.7 ug/L
							PCB-1268 Peak 2	101.7 ug/L
							PCB-1268 Peak 3	101.7 ug/L
							PCB-1268 Peak 4	101.7 ug/L
							PCB-1268 Peak 5	101.7 ug/L
.4868_ICSTK_00005	10/13/11	09/13/10	Hexane, Lot h49e38	10 mL	Arclr1248P_00004	100 uL	PCB-1248 Peak 1	10009 ug/L
							PCB-1248 Peak 2	10009 ug/L
							PCB-1248 Peak 3	10009 ug/L
							PCB-1248 Peak 4	10009 ug/L
							PCB-1248 Peak 5	10009 ug/L
					Arclr1268P_00005	100 uL	PCB-1268 Peak 1	10170 ug/L
							PCB-1268 Peak 2	10170 ug/L
							PCB-1268 Peak 3	10170 ug/L
							PCB-1268 Peak 4	10170 ug/L
							PCB-1268 Peak 5	10170 ug/L
..Arclr1248P_00004	08/30/18		Supelco, Lot LB70699		(Purchased Reagent)		PCB-1248 Peak 1	1000.9 ug/mL
							PCB-1248 Peak 2	1000.9 ug/mL
							PCB-1248 Peak 3	1000.9 ug/mL
							PCB-1248 Peak 4	1000.9 ug/mL
							PCB-1248 Peak 5	1000.9 ug/mL
..Arclr1268P_00005	01/31/12		Supelco, Lot LB63979		(Purchased Reagent)		PCB-1268 Peak 1	1017 ug/mL
							PCB-1268 Peak 2	1017 ug/mL
							PCB-1268 Peak 3	1017 ug/mL
							PCB-1268 Peak 4	1017 ug/mL
							PCB-1268 Peak 5	1017 ug/mL
4868IC1000_00002	09/13/11	09/13/10	Hexane, Lot h49e38	10 mL	4868_ICSTK_00005	1000 uL	PCB-1248 Peak 1	1000.9 ug/L
							PCB-1248 Peak 2	1000.9 ug/L
							PCB-1248 Peak 3	1000.9 ug/L
							PCB-1248 Peak 4	1000.9 ug/L
							PCB-1248 Peak 5	1000.9 ug/L
							PCB-1268 Peak 1	1017 ug/L
							PCB-1268 Peak 2	1017 ug/L
							PCB-1268 Peak 3	1017 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	1017 ug/L
							PCB-1268 Peak 5	1017 ug/L
.4868_ICSTK_00005	10/13/11	09/13/10	Hexane, Lot h49e38	10 mL	Arclr1248P_00004	100 uL	PCB-1248 Peak 1	10009 ug/L
							PCB-1248 Peak 2	10009 ug/L
							PCB-1248 Peak 3	10009 ug/L
							PCB-1248 Peak 4	10009 ug/L
							PCB-1248 Peak 5	10009 ug/L
					Arclr1268P_00005	100 uL	PCB-1268 Peak 1	10170 ug/L
							PCB-1268 Peak 2	10170 ug/L
							PCB-1268 Peak 3	10170 ug/L
							PCB-1268 Peak 4	10170 ug/L
							PCB-1268 Peak 5	10170 ug/L
..Arclr1248P_00004	08/30/18		Supelco, Lot LB70699		(Purchased Reagent)		PCB-1248 Peak 1	1000.9 ug/mL
							PCB-1248 Peak 2	1000.9 ug/mL
							PCB-1248 Peak 3	1000.9 ug/mL
							PCB-1248 Peak 4	1000.9 ug/mL
							PCB-1248 Peak 5	1000.9 ug/mL
..Arclr1268P_00005	01/31/12		Supelco, Lot LB63979		(Purchased Reagent)		PCB-1268 Peak 1	1017 ug/mL
							PCB-1268 Peak 2	1017 ug/mL
							PCB-1268 Peak 3	1017 ug/mL
							PCB-1268 Peak 4	1017 ug/mL
							PCB-1268 Peak 5	1017 ug/mL
4868IC20_00007	09/13/11	09/13/10	Hexane, Lot h49e38	10 mL	4868_ICSTK_00005	20 uL	PCB-1248 Peak 1	20.018 ug/L
							PCB-1248 Peak 2	20.018 ug/L
							PCB-1248 Peak 3	20.018 ug/L
							PCB-1248 Peak 4	20.018 ug/L
							PCB-1248 Peak 5	20.018 ug/L
							PCB-1268 Peak 1	20.34 ug/L
							PCB-1268 Peak 2	20.34 ug/L
							PCB-1268 Peak 3	20.34 ug/L
							PCB-1268 Peak 4	20.34 ug/L
							PCB-1268 Peak 5	20.34 ug/L
.4868_ICSTK_00005	10/13/11	09/13/10	Hexane, Lot h49e38	10 mL	Arclr1248P_00004	100 uL	PCB-1248 Peak 1	10009 ug/L
							PCB-1248 Peak 2	10009 ug/L
							PCB-1248 Peak 3	10009 ug/L
							PCB-1248 Peak 4	10009 ug/L
							PCB-1248 Peak 5	10009 ug/L
					Arclr1268P_00005	100 uL	PCB-1268 Peak 1	10170 ug/L
							PCB-1268 Peak 2	10170 ug/L
							PCB-1268 Peak 3	10170 ug/L
							PCB-1268 Peak 4	10170 ug/L
							PCB-1268 Peak 5	10170 ug/L
..Arclr1248P_00004	08/30/18		Supelco, Lot LB70699		(Purchased Reagent)		PCB-1248 Peak 1	1000.9 ug/mL
							PCB-1248 Peak 2	1000.9 ug/mL
							PCB-1248 Peak 3	1000.9 ug/mL
							PCB-1248 Peak 4	1000.9 ug/mL
							PCB-1248 Peak 5	1000.9 ug/mL
..Arclr1268P_00005	01/31/12		Supelco, Lot LB63979		(Purchased Reagent)		PCB-1268 Peak 1	1017 ug/mL
							PCB-1268 Peak 2	1017 ug/mL
							PCB-1268 Peak 3	1017 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	1017 ug/mL
							PCB-1268 Peak 5	1017 ug/mL
4868IC50_00007	09/13/11	09/13/10	Hexane, Lot h49e38	10 mL	4868_ICSTK_00005	50 uL	PCB-1248 Peak 1	50.045 ug/L
							PCB-1248 Peak 2	50.045 ug/L
							PCB-1248 Peak 3	50.045 ug/L
							PCB-1248 Peak 4	50.045 ug/L
							PCB-1248 Peak 5	50.045 ug/L
							PCB-1268 Peak 1	50.85 ug/L
							PCB-1268 Peak 2	50.85 ug/L
							PCB-1268 Peak 3	50.85 ug/L
							PCB-1268 Peak 4	50.85 ug/L
							PCB-1268 Peak 5	50.85 ug/L
.4868_ICSTK_00005	10/13/11	09/13/10	Hexane, Lot h49e38	10 mL	Arclr1248P_00004	100 uL	PCB-1248 Peak 1	10009 ug/L
							PCB-1248 Peak 2	10009 ug/L
							PCB-1248 Peak 3	10009 ug/L
							PCB-1248 Peak 4	10009 ug/L
							PCB-1248 Peak 5	10009 ug/L
					Arclr1268P_00005	100 uL	PCB-1268 Peak 1	10170 ug/L
							PCB-1268 Peak 2	10170 ug/L
							PCB-1268 Peak 3	10170 ug/L
							PCB-1268 Peak 4	10170 ug/L
							PCB-1268 Peak 5	10170 ug/L
..Arclr1248P_00004	08/30/18		Supelco, Lot LB70699		(Purchased Reagent)		PCB-1248 Peak 1	1000.9 ug/mL
							PCB-1248 Peak 2	1000.9 ug/mL
							PCB-1248 Peak 3	1000.9 ug/mL
							PCB-1248 Peak 4	1000.9 ug/mL
							PCB-1248 Peak 5	1000.9 ug/mL
..Arclr1268P_00005	01/31/12		Supelco, Lot LB63979		(Purchased Reagent)		PCB-1268 Peak 1	1017 ug/mL
							PCB-1268 Peak 2	1017 ug/mL
							PCB-1268 Peak 3	1017 ug/mL
							PCB-1268 Peak 4	1017 ug/mL
							PCB-1268 Peak 5	1017 ug/mL
4868IC500_00008	09/13/11	09/13/10	Hexane, Lot h49e38	10 mL	4868_ICSTK_00005	500 uL	PCB-1248 Peak 1	500.45 ug/L
							PCB-1248 Peak 2	500.45 ug/L
							PCB-1248 Peak 3	500.45 ug/L
							PCB-1248 Peak 4	500.45 ug/L
							PCB-1248 Peak 5	500.45 ug/L
							PCB-1268 Peak 1	508.5 ug/L
							PCB-1268 Peak 2	508.5 ug/L
							PCB-1268 Peak 3	508.5 ug/L
							PCB-1268 Peak 4	508.5 ug/L
							PCB-1268 Peak 5	508.5 ug/L
.4868_ICSTK_00005	10/13/11	09/13/10	Hexane, Lot h49e38	10 mL	Arclr1248P_00004	100 uL	PCB-1248 Peak 1	10009 ug/L
							PCB-1248 Peak 2	10009 ug/L
							PCB-1248 Peak 3	10009 ug/L
							PCB-1248 Peak 4	10009 ug/L
							PCB-1248 Peak 5	10009 ug/L
					Arclr1268P_00005	100 uL	PCB-1268 Peak 1	10170 ug/L
							PCB-1268 Peak 2	10170 ug/L
							PCB-1268 Peak 3	10170 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 4	10170 ug/L
							PCB-1268 Peak 5	10170 ug/L
..Arclr1248P_00004	08/30/18		Supelco, Lot LB70699		(Purchased Reagent)		PCB-1248 Peak 1	1000.9 ug/mL
							PCB-1248 Peak 2	1000.9 ug/mL
							PCB-1248 Peak 3	1000.9 ug/mL
							PCB-1248 Peak 4	1000.9 ug/mL
							PCB-1248 Peak 5	1000.9 ug/mL
..Arclr1268P_00005	01/31/12		Supelco, Lot LB63979		(Purchased Reagent)		PCB-1268 Peak 1	1017 ug/mL
							PCB-1268 Peak 2	1017 ug/mL
							PCB-1268 Peak 3	1017 ug/mL
							PCB-1268 Peak 4	1017 ug/mL
							PCB-1268 Peak 5	1017 ug/mL
4868ICVStd_00004	09/03/11	09/03/10	Hexane, Lot H33E04	10 mL	4868ICVStk_00004	100 uL	PCB-1248	100 ug/L
							PCB-1248 Peak 1	100 ug/L
							PCB-1248 Peak 2	100 ug/L
							PCB-1248 Peak 3	100 ug/L
							PCB-1248 Peak 4	100 ug/L
							PCB-1248 Peak 5	100 ug/L
							DCB Decachlorobiphenyl	10 ug/L
							Tetrachloro-m-xylene	10 ug/L
.4868ICVStk_00004	09/03/11	09/03/10	HEXANES, Lot H33E074	100 mL	Arclr1248S_00003	1000 uL	PCB-1248	10000 ug/L
							PCB-1248 Peak 1	10000 ug/L
							PCB-1248 Peak 2	10000 ug/L
							PCB-1248 Peak 3	10000 ug/L
							PCB-1248 Peak 4	10000 ug/L
							PCB-1248 Peak 5	10000 ug/L
					DCBTCMXstk_00006	500 uL	DCB Decachlorobiphenyl	1000 ug/L
							Tetrachloro-m-xylene	1000 ug/L
..Arclr1248S_00003	10/01/14		Restek, Lot A055047		(Purchased Reagent)		PCB-1248	1000 ug/mL
							PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
..DCBTCMXstk_00006	11/01/11		Supelco, Lot LB63087		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
ICPMS- ICSA_00002	12/01/11		Inorganic Ventures, Lot d2-meb329124		(Purchased Reagent)		Al	1000 ug/mL
							Ca	3000 ug/mL
							Fe	2500 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Mo	20 ug/mL
							Na	2500 ug/mL
							Ti	20 ug/mL
ICPMS-ICSB_00002	12/01/11		Inorganic Ventures, Lot d2-meb324099		(Purchased Reagent)		Ag	5 ug/mL
							As	10 ug/mL
							Cd	10 ug/mL
							Co	20 ug/mL
							Cr	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cu	20 ug/mL
							Mn	20 ug/mL
							Ni	20 ug/mL
							Se	10 ug/mL
							V	20 ug/mL
							Zn	10 ug/mL
ICPMS_CAL_WOR_00007	09/22/11	06/30/11	H2O, Lot 123010	1000 mL	ICPMS_CAL_00001	10 mL	Lead	100 ug/L
.ICPMS_CAL_00001	09/22/11		CPI, Lot 10C166		(Purchased Reagent)		Lead	10 mg/L
ICPMS_ICV_WOR_00009	08/15/11	05/16/11	H2O, Lot 021511	1000 mL	ICPMS_ICV_00003	4 mL	Lead	40 ug/L
.ICPMS_ICV_00003	01/30/12		SPEX, Lot 5-236cr		(Purchased Reagent)		Lead	10 mg/L
m-GPS-1_00021	12/29/12		CPI, Lot 11F316		(Purchased Reagent)		Ag	5 ppm
							Al	200 ppm
							As	200 ppm
							Ba	200 ppm
							Be	5 ppm
							Cd	5 ppm
							Co	50 ppm
							Cr	20 ppm
							Cu	25 ppm
							Fe	100 ppm
							Lead	50 ppm
							Mn	50 ppm
							Ni	50 ppm
							Sb	50 ppm
							Se	200 ppm
							Tl	200 ppm
							V	50 ppm
							Zn	50 ppm
m-GPS-2_00018	12/29/12		CPI, Lot 11F317		(Purchased Reagent)		Ag	25 ppm
							Sb	100 ppm
m-GPS-3_00018	12/29/12		CPI, Lot 11F319		(Purchased Reagent)		Ca	1000 ppm
							Fe	1000 ppm
							K	1000 ppm
							Mg	1000 ppm
							Na	1000 ppm
							P	1000 ppm
m-GPS-4_00020	12/29/12		CPI, Lot 11F318		(Purchased Reagent)		B	250 ppm
							Mo	250 ppm
							Sn	250 ppm
							Ti	250 ppm
MS-HgSpk_00011	05/10/12	05/10/11	H2O, Lot standard	1000 mg/L	Hg_CAL_STOCK_00001	25 mL	Hg	2.5 mg/L
.Hg_CAL_STOCK_00001	06/30/14		AccuStandard, Lot B7045094-1A		(Purchased Reagent)		Hg	100 mg/L
PCBLLSSpk_00021	04/26/12	04/26/11	Acetone, Lot J16E23	100 mL	1660restek_00004	1000 uL	PCB-1016	10 mg/L
							PCB-1016 Peak 1	10 mg/L
							PCB-1016 Peak 2	10 mg/L
							PCB-1016 Peak 3	10 mg/L
							PCB-1016 Peak 4	10 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	10 mg/L
							PCB-1260	10 mg/L
							PCB-1260 Peak 1	10 mg/L
							PCB-1260 Peak 2	10 mg/L
							PCB-1260 Peak 3	10 mg/L
							PCB-1260 Peak 4	10 mg/L
							PCB-1260 Peak 5	10 mg/L
.1660restek_00004	02/28/15	restek, Lot A057493			(Purchased Reagent)		PCB-1016	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
Pest/PCB Surr_00019	07/25/12	07/25/11	Acetone, Lot J16E23	100 mL	8081SURRSEC_00003	1 mL	DCB Decachlorobiphenyl	2 mg/L
							Tetrachloro-m-xylene	2.00018 mg/L
.8081SURRSEC_00003	01/31/18	Restek, Lot A075766			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200.018 ug/mL

Certification Summary

Client: Bristol Env. Remediation Services LLC
Project/Site: Savoonga NALEMP, 49029

TestAmerica Job ID: 580-27645-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Seattle	Alaska	Alaska UST	10	UST-022
TestAmerica Seattle	Alaska	TA-Port Heiden Mobile Lab	10	UST-093
TestAmerica Seattle	California	NELAC	9	1115CA
TestAmerica Seattle	Florida	NELAC	4	E871074
TestAmerica Seattle	L-A-B	DoD ELAP		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	Louisiana	NELAC	6	05016
TestAmerica Seattle	Montana	MT DEQ UST	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	USDA		P330-11-00222
TestAmerica Seattle	Washington	State Program	10	C553

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8082

Polychlorinated Biphenyls (PCBs) by Gas Chromatography by Method 8082

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-MR-2 ID: 0.25 (mm) GC Column (2): ZB-MR-1 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCB1	#	DCB2	#
11NVNCDS03	580-27892-1	92	M	101		89		77	M
11NVNCDS04	580-27892-2	85		87		98	M	90	M
	MB 580-92867/1-A	89		85	M	100		110	M
	LCS 580-92867/2-A	91		92		96		74	M
	580-28005-A-21-B MS	70		71		85		72	M
	580-28005-A-21-C MSD	76		77		88		74	M

	QC LIMITS
TCX = Tetrachloro-m-xylene	45-155
DCB = DCB Decachlorobiphenyl	60-125

Column to be used to flag recovery values

FORM II 8082/DOD

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: CC158657.D

Lab ID: LCS 580-92867/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	0.100	0.0880	88	40-140	
PCB-1260	0.100	0.0919	92	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: CC158659.D

Lab ID: 580-28005-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	0.0941	0.0049 U	0.0633	67	40-140	
PCB-1260	0.0941	0.0049 U	0.0745	79	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: CC158660.D

Lab ID: 580-28005-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	0.0992	0.0712	72	12	30	40-140	
PCB-1260	0.0992	0.0811	82	9	30	60-130	

Column to be used to flag recovery and RPD values

FORM III 8082/DOD

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: MB 580-92867/1-A

Matrix: Solid Date Extracted: 08/15/2011 15:58

Lab File ID:(1) CC158653.D Lab File ID:(2) CC158653.D

Date Analyzed:(1) 08/16/2011 11:15 Date Analyzed:(2) 08/16/2011 11:15

Instrument ID:(1) TAC042 Instrument ID:(2) TAC042

GC Column:(1) ZB-MR-2 ID: 0.25(mm) GC Column:(2) ZB-MR-1 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 580-92867/2-A	08/16/2011 12:58	08/16/2011 12:58
	580-28005-A-21-B MS	08/16/2011 13:26	08/16/2011 13:26
	580-28005-A-21-C MSD	08/16/2011 13:41	08/16/2011 13:41
11NVNCDS03	580-27892-1	08/25/2011 12:12	08/25/2011 12:12
11NVNCDS04	580-27892-2	08/25/2011 12:26	08/25/2011 12:26

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Sample No.: CCVRT 580-92903/2 Date Analyzed: 08/16/2011 07:39

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm)

Lab File ID (Standard): CC158740.D Heated Purge: (Y/N) N

Calibration ID: 7347

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.01	7.67	
UPPER LIMIT				3.04	7.70	
LOWER LIMIT				2.98	7.64	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-92903/2		08/16/2011 07:39	CC158740.D	3.01	7.67	
CCV 580-92903/11		08/16/2011 14:09	CC158662.D	3.02	7.67	
CCV 580-92903/16		08/16/2011 17:03	CC158665.D	3.02	7.68	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Sample No.: CCVRT 580-92903/2 Date Analyzed: 08/16/2011 07:39

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm)

Lab File ID (Standard): CC158740.D Heated Purge: (Y/N) N

Calibration ID: 7348

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.11	7.77	
UPPER LIMIT				3.14	7.80	
LOWER LIMIT				3.08	7.74	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-92903/2		08/16/2011 07:39	CC158740.D	3.11	7.77	
MB 580-92867/1-A		08/16/2011 11:15	CC158653.D	3.11	7.77	
LCS 580-92867/2-A		08/16/2011 12:58	CC158657.D	3.11	7.77	
580-28005-A-21-B MS		08/16/2011 13:26	CC158659.D	3.11	7.77	
580-28005-A-21-C MSD		08/16/2011 13:41	CC158660.D	3.11	7.77	
CCV 580-92903/11		08/16/2011 14:09	CC158662.D	3.11	7.77	
CCV 580-92903/16		08/16/2011 17:03	CC158665.D	3.11	7.77	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Sample No.: CCVRT 580-93679/2 Date Analyzed: 08/25/2011 11:04

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm)

Lab File ID (Standard): CC158945.D Heated Purge: (Y/N) N

Calibration ID: 7347

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.00	7.66	
UPPER LIMIT				3.03	7.69	
LOWER LIMIT				2.97	7.63	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-93679/2		08/25/2011 11:04	CC158945.D	3.00	7.66	
CCV 580-93679/7		08/25/2011 12:46	CC158950.D	3.00	7.66	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM VIII
PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Sample No.: CCVRT 580-93679/2 Date Analyzed: 08/25/2011 11:04

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm)

Lab File ID (Standard): CC158945.D Heated Purge: (Y/N) N

Calibration ID: 7348

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.10	7.75	
UPPER LIMIT				3.13	7.78	
LOWER LIMIT				3.07	7.72	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 580-93679/2		08/25/2011 11:04	CC158945.D	3.10	7.75	
580-27892-1	11NVNCDS03	08/25/2011 12:12	CC158948.D	3.10	7.76	
580-27892-2	11NVNCDS04	08/25/2011 12:26	CC158949.D	3.10	7.76	
CCV 580-93679/7		08/25/2011 12:46	CC158950.D	3.10	7.76	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 8082/DOD

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: 11NVNCDS03 Lab Sample ID: 580-27892-1

Instrument ID (1): TAC042 Instrument ID (2): TAC042

Date Analyzed (1): 08/25/2011 12:12 Date Analyzed (2): 08/25/2011 12:12

GC Column (1): ZB-MR-2 ID: 0.25(mm) GC Column (2): ZB-MR-1 ID: 0.25(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	1	4.97	4.96	5.02	0.275	0.34	8.2
		2	5.16	5.12	5.18	0.540		
		3	5.54	5.50	5.56	0.424		
		4	5.73	5.72	5.78	0.140		
	2	1	5.07	5.04	5.10	0.350	0.37	
		2	5.29	5.27	5.33	0.829		
		3	5.62	5.59	5.65	0.380		
		4	5.86	5.85	5.91	0.114		
		5	6.22	6.19	6.25	0.198		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: 11NVNCDS04 Lab Sample ID: 580-27892-2

Instrument ID (1): TAC042 Instrument ID (2): TAC042

Date Analyzed (1): 08/25/2011 12:26 Date Analyzed (2): 08/25/2011 12:26

GC Column (1): ZB-MR-2 ID: 0.25(mm) GC Column (2): ZB-MR-1 ID: 0.25(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1260	1	1	5.64	5.61	5.67	0.176	0.24	16.5
		2	5.82	5.79	5.85	0.284		
		4	6.59	6.56	6.62	0.258		
		5	6.88	6.85	6.91	0.225		
	2	1	5.75	5.72	5.78	0.174	0.28	
		2	5.99	5.96	6.02	0.596		
		3	6.22	6.19	6.25	0.133		
		4	6.74	6.71	6.77	0.268		
		5	6.96	6.93	6.99	0.218		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 580-92867/2-A

Instrument ID (1): TAC042 Instrument ID (2): TAC042

Date Analyzed (1): 08/16/2011 12:58 Date Analyzed (2): 08/16/2011 12:58

GC Column (1): ZB-MR-2 ID: 0.25(mm) GC Column (2): ZB-MR-1 ID: 0.25(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.70	3.67	3.73	0.0834	0.0874	0.7
		2	3.90	3.87	3.93	0.0883		
		3	4.17	4.14	4.20	0.0883		
		4	4.42	4.39	4.45	0.0911		
		5	4.63	4.60	4.66	0.0858		
	2	1	3.78	3.75	3.81	0.0843	0.0880	
		2	3.97	3.94	4.00	0.0898		
		3	4.28	4.25	4.31	0.0923		
		4	4.54	4.51	4.57	0.0856		
		5	4.73	4.69	4.75	0.0880		
PCB-1260	1	1	5.65	5.62	5.68	0.0867	0.0884	3.9
		2	5.84	5.80	5.86	0.0904		
		3	6.12	6.09	6.15	0.0749		
		4	6.60	6.57	6.63	0.0936		
		5	6.89	6.86	6.92	0.0965		
	2	1	5.77	5.74	5.80	0.0881	0.0919	
		2	6.01	5.98	6.04	0.0851		
		3	6.24	6.20	6.26	0.0878		
		4	6.76	6.72	6.78	0.102		
		5	6.98	6.94	7.00	0.0968		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: Lab Sample ID: 580-28005-A-21-B MS

Instrument ID (1): TAC042 Instrument ID (2): TAC042

Date Analyzed (1): 08/16/2011 13:26 Date Analyzed (2): 08/16/2011 13:26

GC Column (1): ZB-MR-2 ID: 0.25(mm) GC Column (2): ZB-MR-1 ID: 0.25(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.70	3.67	3.73	0.0651	0.0646	
		2	3.90	3.87	3.93	0.0646		
		3	4.17	4.14	4.20	0.0628		
		4	4.42	4.39	4.45	0.0666		
		5	4.63	4.60	4.66	0.0637		
	2	1	3.78	3.75	3.81	0.0721	0.0633	
		2	3.97	3.94	4.00	0.0620		
		3	4.28	4.25	4.31	0.0621		
		4	4.54	4.51	4.57	0.0598		
		5	4.73	4.69	4.75	0.0603		
PCB-1260	1	1	5.65	5.62	5.68	0.0684	0.0683	
		2	5.83	5.80	5.86	0.0698		
		3	6.12	6.09	6.15	0.0644		
		4	6.60	6.57	6.63	0.0696		
		5	6.89	6.86	6.92	0.0696		
	2	1	5.77	5.74	5.80	0.0686	0.0745	
		2	6.01	5.98	6.04	0.0698		
		3	6.24	6.20	6.26	0.0687		
		4	6.76	6.72	6.78	0.0844		
		5	6.98	6.94	7.00	0.0805		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: Lab Sample ID: 580-28005-A-21-C MSD

Instrument ID (1): TAC042 Instrument ID (2): TAC042

Date Analyzed (1): 08/16/2011 13:41 Date Analyzed (2): 08/16/2011 13:41

GC Column (1): ZB-MR-2 ID: 0.25(mm) GC Column (2): ZB-MR-1 ID: 0.25(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	3.70	3.67	3.73	0.0734	0.0722	
		2	3.90	3.87	3.93	0.0732		
		3	4.17	4.14	4.20	0.0711		
		4	4.42	4.39	4.45	0.0723		
		5	4.63	4.60	4.66	0.0710		
	2	1	3.78	3.75	3.81	0.0721	0.0712	
		2	3.97	3.94	4.00	0.0703		
		3	4.28	4.25	4.31	0.0752		
		4	4.54	4.51	4.57	0.0677		
		5	4.73	4.69	4.75	0.0706		
PCB-1260	1	1	5.65	5.62	5.68	0.0740	0.0747	
		2	5.84	5.80	5.86	0.0766		
		3	6.12	6.09	6.15	0.0706		
		4	6.60	6.57	6.63	0.0765		
		5	6.89	6.86	6.92	0.0756		
	2	1	5.77	5.74	5.80	0.0756	0.0811	
		2	6.01	5.98	6.04	0.0760		
		3	6.24	6.20	6.26	0.0757		
		4	6.76	6.72	6.78	0.0915		
		5	6.98	6.94	7.00	0.0872		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Seattle | Job No.: 580-27645-1

SDG No.:

Client Sample ID: 11NVNCDS03 | Lab Sample ID: 580-27892-1

Matrix: Solid | Lab File ID: CC158948.D

Analysis Method: 8082/DOD | Date Collected: 08/04/2011 16:45

Extraction Method: 3550B | Date Extracted: 08/15/2011 15:58

Sample wt/vol: 10.2832(g) | Date Analyzed: 08/25/2011 12:12

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-MR-1 ID: 0.25(mm)

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

Analysis Batch No.: 93679 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.0049	U	0.0097	0.0049	0.0031
11104-28-2	PCB-1221	0.0078	U	0.0097	0.0078	0.0078
11141-16-5	PCB-1232	0.0078	U	0.0097	0.0078	0.0068
53469-21-9	PCB-1242	0.0049	U	0.0097	0.0049	0.0020
12672-29-6	PCB-1248	0.0029	U	0.0097	0.0029	0.0029
11097-69-1	PCB-1254	0.37		0.0097	0.0049	0.0020
11096-82-5	PCB-1260	0.0049	U	0.0097	0.0049	0.0029

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	101		45-155
2051-24-3	DCB Decachlorobiphenyl	77	M	60-125

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158948.D		
Lims ID:	580-27892-A-1-A	Client ID:	11NVNCDS03
Inject. Date:	25-Aug-2011 12:12:23	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	580-27892-A-1-A		
Misc. Info.:			
Operator:	bat	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	4
Lims Batch ID:	93679	Lims Sample ID:	5
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m		
Last Update:	25-Aug-2011 13:48:03	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC0022		

First Level Reviewer: tadesseb Date: 25-Aug-2011 13:50:23

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									M
1	1	2.998	2.998	0.000	18982898	18.4			M
2	2	3.098	3.097	0.001	52674633	20.2			
						RPD = 9.15			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.660	7.662	-0.002	12951763	17.9			
2	2	7.755	7.754	0.001	31258882	15.4			M
						RPD = 15.36			
8 PCB-1254									
1	1	4.974	4.991	-0.017	14363793	283.0		100.0	
1	2	5.157	5.150	0.007	23798828	555.2	55.3- 115.3	165.7	
1	3	5.539	5.527	0.012	26469288	435.9	98.2- 158.2	184.3	
1	4	5.727	5.748	-0.021	6569358	143.6	54.6- 114.6	45.7	A
1	5	0.0	6.125	-6.125	0	0	83.2- 143.2		
			Average of Peak Amounts =			354.4			
2	6	5.069	5.067	0.002	31108433	359.8		100.0	
2	7	5.288	5.297	-0.009	108161136	852.7	108.8- 168.8	347.7	
2	8	5.624	5.618	0.006	54992626	390.6	135.4- 195.4	176.8	
2	9	5.861	5.879	-0.018	13145360	117.7	100.3- 160.3	42.3	A
2	10	6.218	6.218	0.000	24528299	203.4	105.4- 165.4	78.8	A
			Average of Peak Amounts =			384.8			
						RPD = 8.22			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags

QC Flag Legend

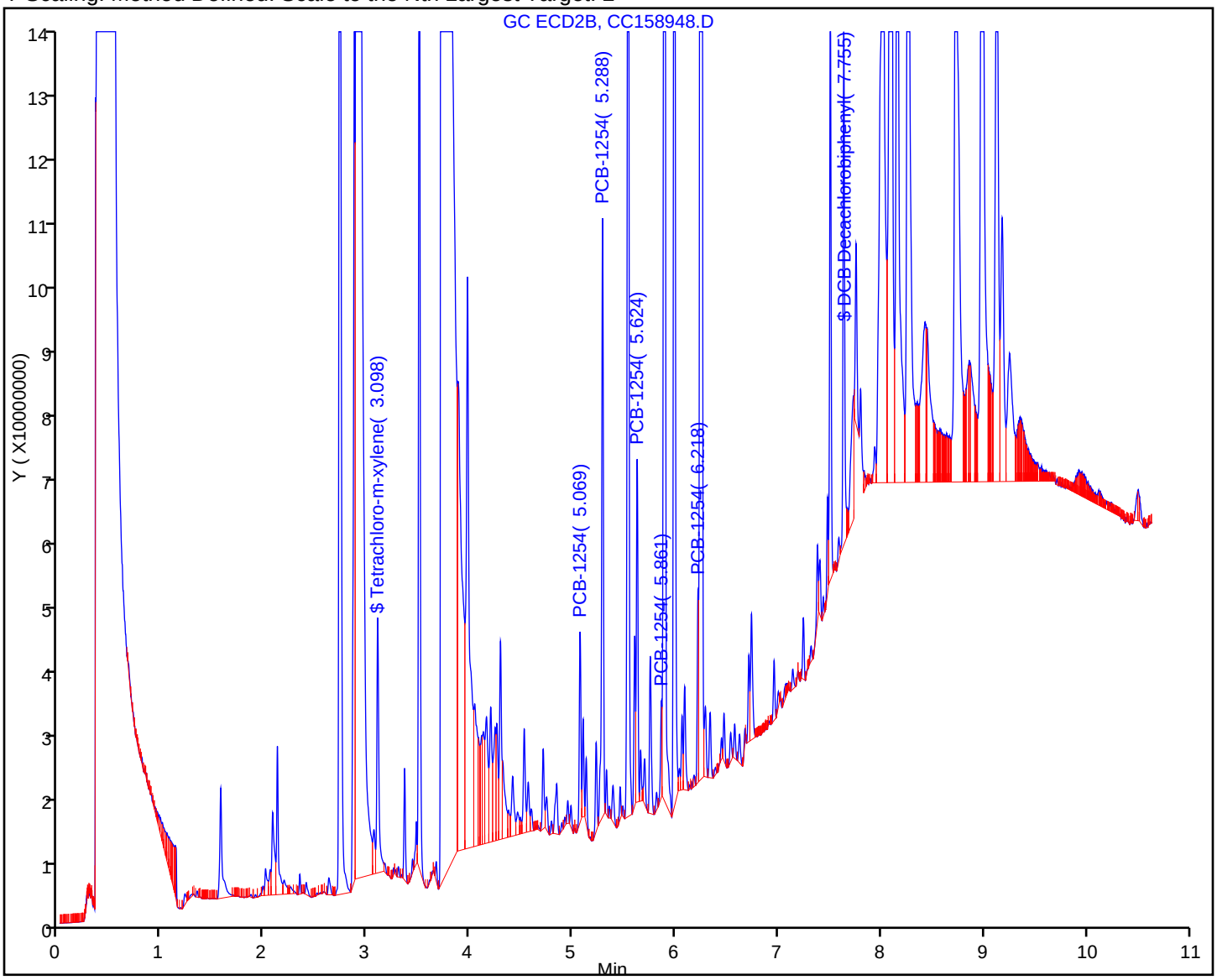
Review Flags
M - Manually Integrated

Report Date: 25-Aug-2011 13:50:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158948.D

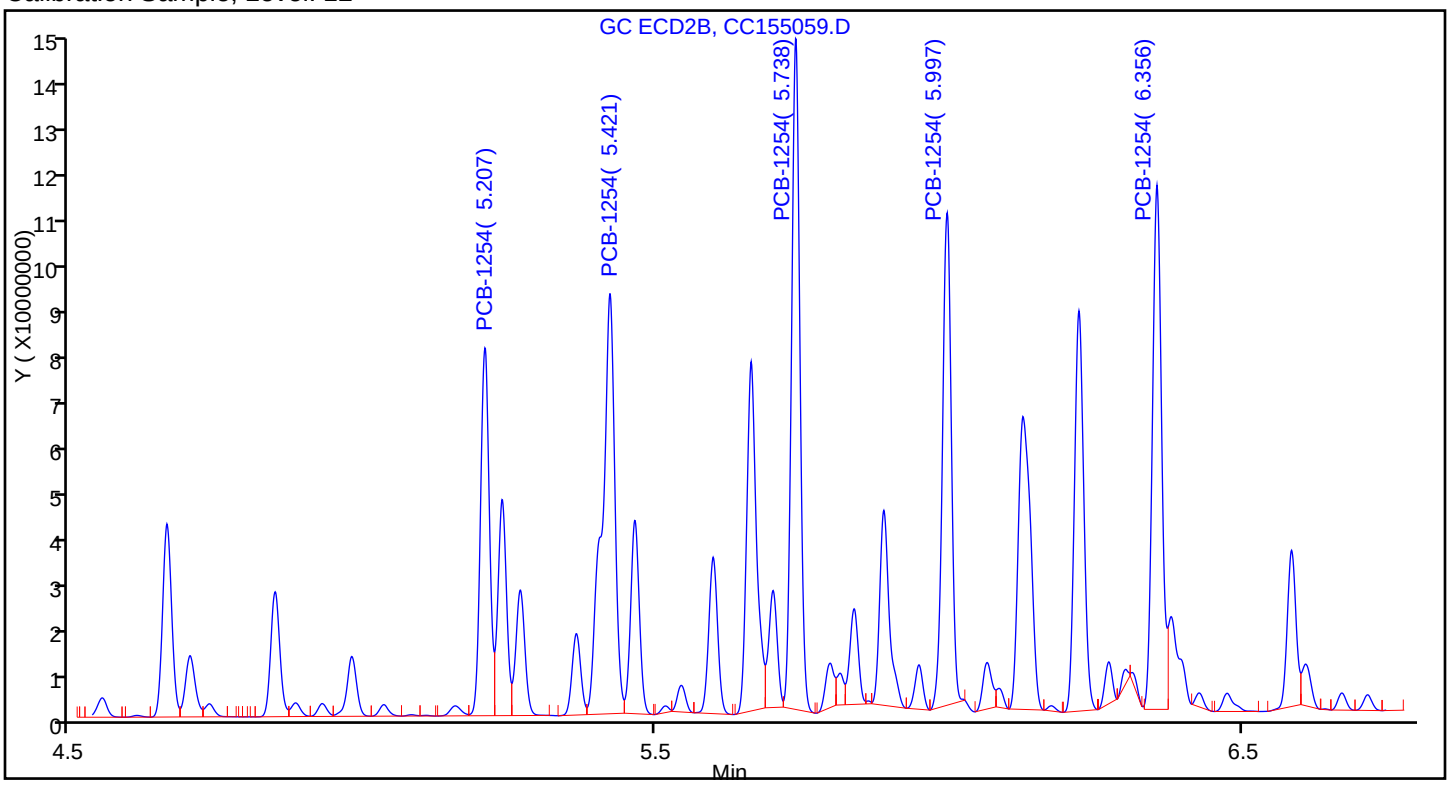
Injection Date:	25-Aug-2011 12:12:23	Limit Group:	8082 PCBs
Client ID:	11NVNCDS03	Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	5
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

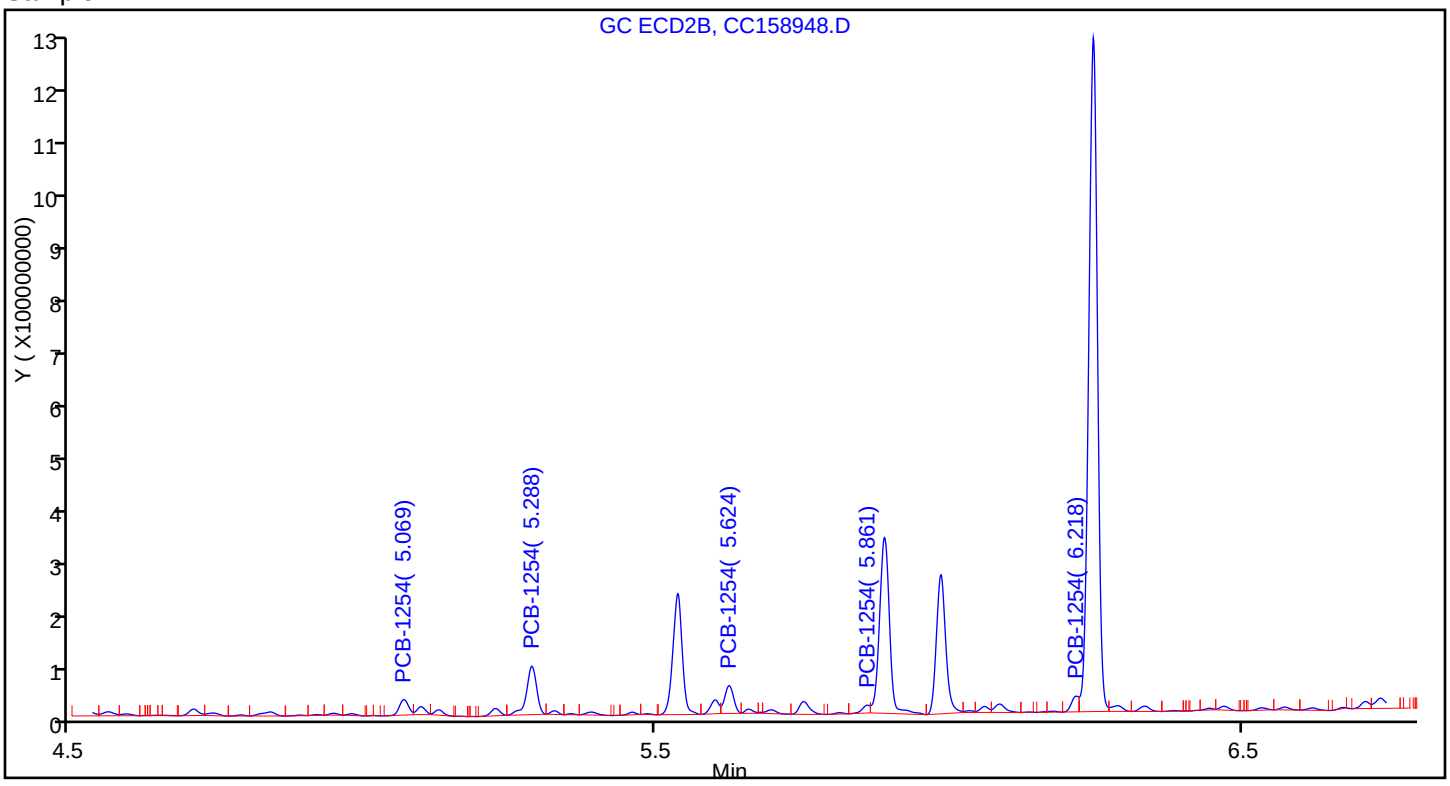


Report Date: 25-Aug-2011 13:50:24 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158948.D
Injection Date: 25-Aug-2011 12:12:23 Limit Group: 8082 PCBs
Client ID: 11NVNCDS03 Instrument ID: TAC042
Lims Batch ID: 93679 Lims Sample ID: 5
Operator ID: bat Injection Vol: 1.00 ul
8 PCB-1254, Detector: 2, GC ECD2B

Calibration Sample, Level: 12



Sample



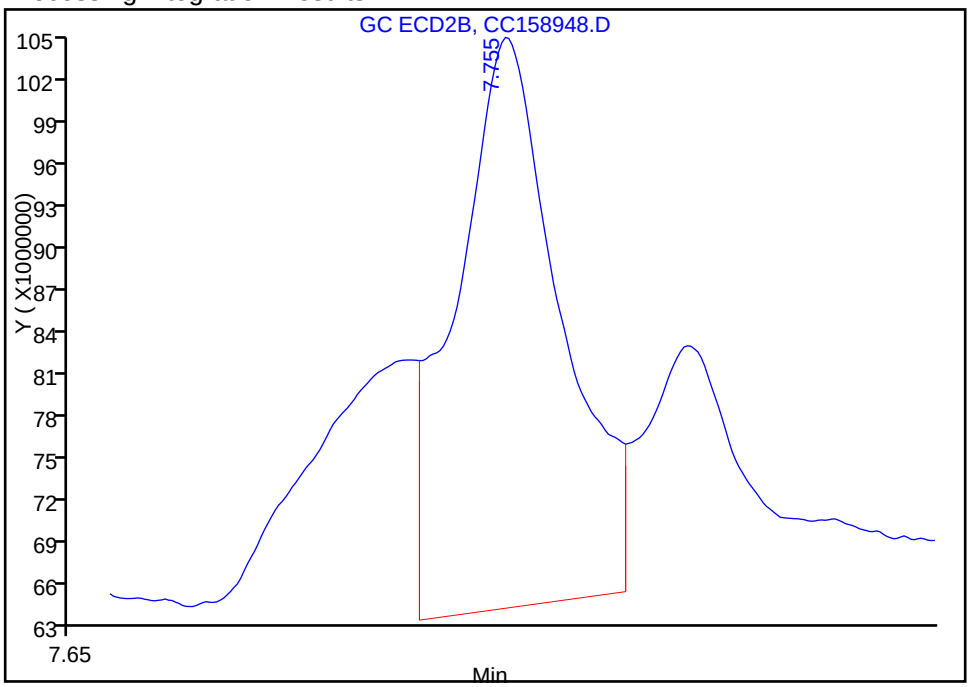
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158948.D		
Injection Date:	25-Aug-2011 12:12:23	Limit Group:	8082 PCBs
Client ID:	11NVNCDS03	Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	5
Operator ID:	bat	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.75, Det: GC ECD2B

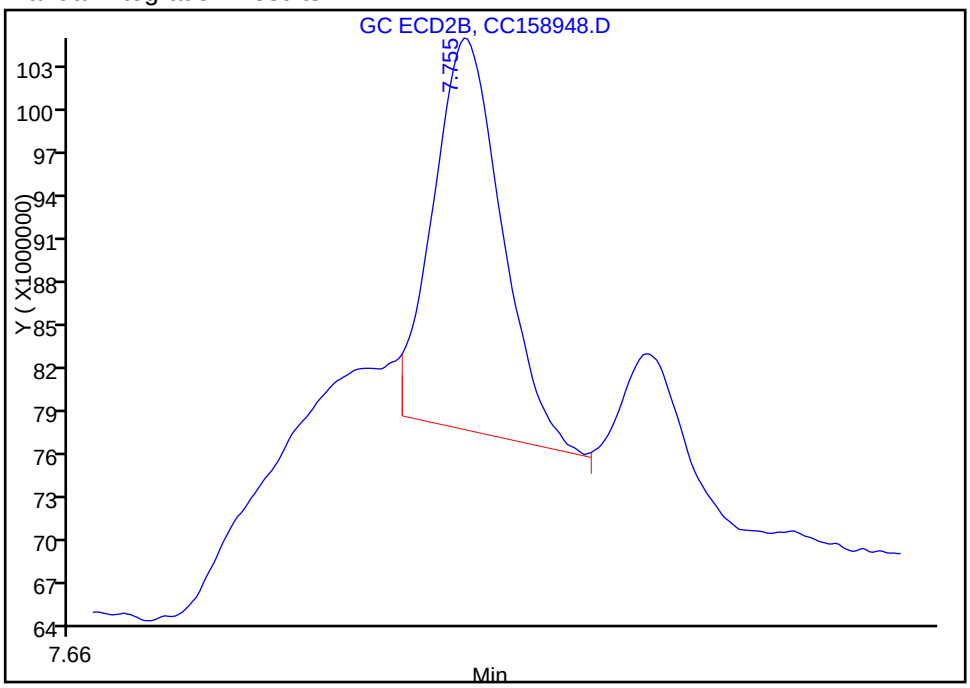
Processing Integration Results

RT: 7.76
Response: 70996243
Amount: 34.876304



Manual Integration Results

RT: 7.76
Response: 31258882
Amount: 15.355661



Reviewer: tadesseb, 25-Aug-2011 12:38:11
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Seattle | Job No.: 580-27645-1

SDG No.:

Client Sample ID: 11NVNCDS04 | Lab Sample ID: 580-27892-2

Matrix: Solid | Lab File ID: CC158949.D

Analysis Method: 8082/DOD | Date Collected: 08/05/2011 08:15

Extraction Method: 3550B | Date Extracted: 08/15/2011 15:58

Sample wt/vol: 10.1468(g) | Date Analyzed: 08/25/2011 12:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-MR-1 ID: 0.25(mm)

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

Analysis Batch No.: 93679 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.0049	U	0.0099	0.0049	0.0032
11104-28-2	PCB-1221	0.0079	U	0.0099	0.0079	0.0079
11141-16-5	PCB-1232	0.0079	U	0.0099	0.0079	0.0069
53469-21-9	PCB-1242	0.0049	U	0.0099	0.0049	0.0021
12672-29-6	PCB-1248	0.0030	U	0.0099	0.0030	0.0030
11097-69-1	PCB-1254	0.0049	U	0.0099	0.0049	0.0021
11096-82-5	PCB-1260	0.28		0.0099	0.0049	0.0030

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	87		45-155
2051-24-3	DCB Decachlorobiphenyl	90	M	60-125

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158949.D		
Lims ID:	580-27892-A-2-A	Client ID:	11NVNCDS04
Inject. Date:	25-Aug-2011 12:26:31	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	580-27892-A-2-A		
Misc. Info.:			
Operator:	bat	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	5
Lims Batch ID:	93679	Lims Sample ID:	6
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m		
Last Update:	25-Aug-2011 12:39:21	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC0022		

First Level Reviewer: tadesseb Date: 25-Aug-2011 12:46:25

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	2.998	2.998	0.000	17613272	17.1			
2	2	3.097	3.097	0.000	45509512	17.4			
						RPD = 2.03			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.660	7.661	-0.001	14113839	19.6			M
2	2	7.756	7.754	0.002	36861624	18.1			M
						RPD = 7.76			
9 PCB-1260									
1	1	5.635	5.635	0.000	9239556	178.2		100.0	
1	2	5.818	5.819	-0.001	16374561	288.3	83.4- 143.4	177.2	
1	3	0.0	6.107	-6.107	0	0	110.0- 170.0		
1	4	6.587	6.589	-0.002	23870028	261.7	144.0- 204.0	258.3	
1	5	6.878	6.877	0.001	16247448	228.7	103.9- 163.9	175.8	
			Average of Peak Amounts =			239.2			
2	6	5.752	5.750	0.002	20219260	176.1		100.0	
2	7	5.988	5.990	-0.002	102759787	605.1	112.5- 172.5	508.2	
2	8	6.218	6.218	0.000	22418360	135.2	94.3- 154.3	110.9	
2	9	6.738	6.738	0.000	58567930	272.4	146.7- 206.7	289.7	
2	10	6.958	6.957	0.001	28764368	221.7	67.0- 127.0	142.3	
			Average of Peak Amounts =			282.1			
						RPD = 16.45			

QC Flag Legend

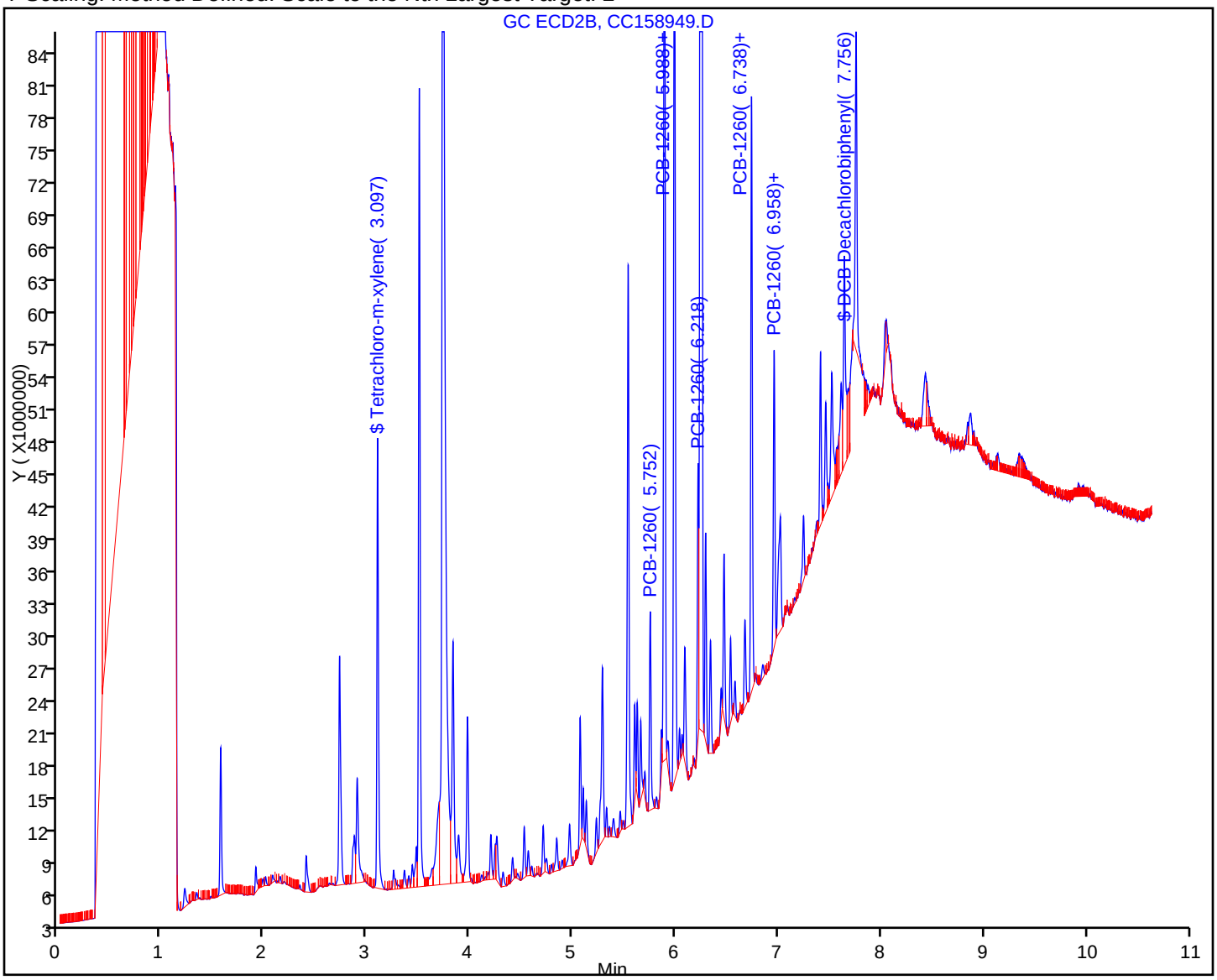
Review Flags
M - Manually Integrated

Report Date: 25-Aug-2011 12:46:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158949.D

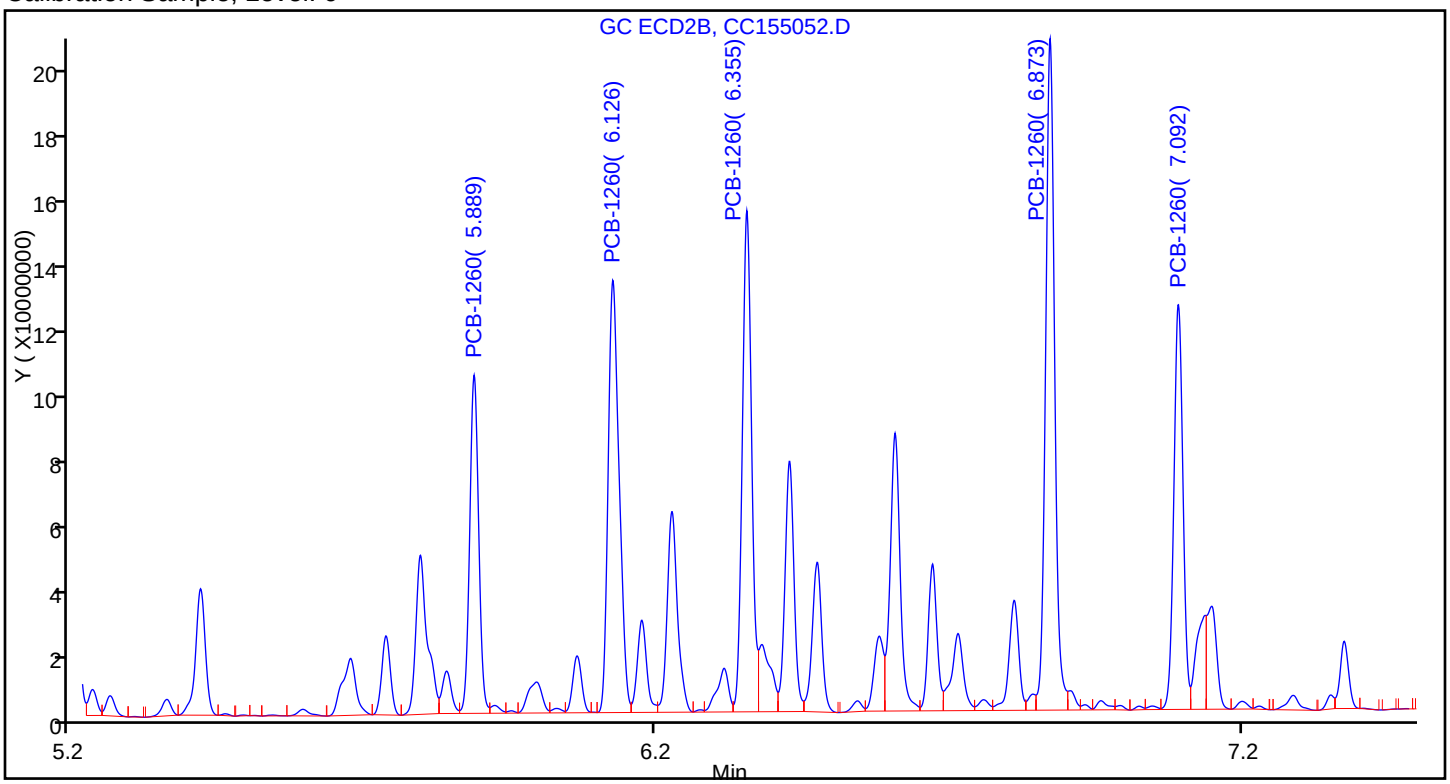
Injection Date:	25-Aug-2011 12:26:31	Limit Group:	8082 PCBs
Client ID:	11NVNCDS04	Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	6
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

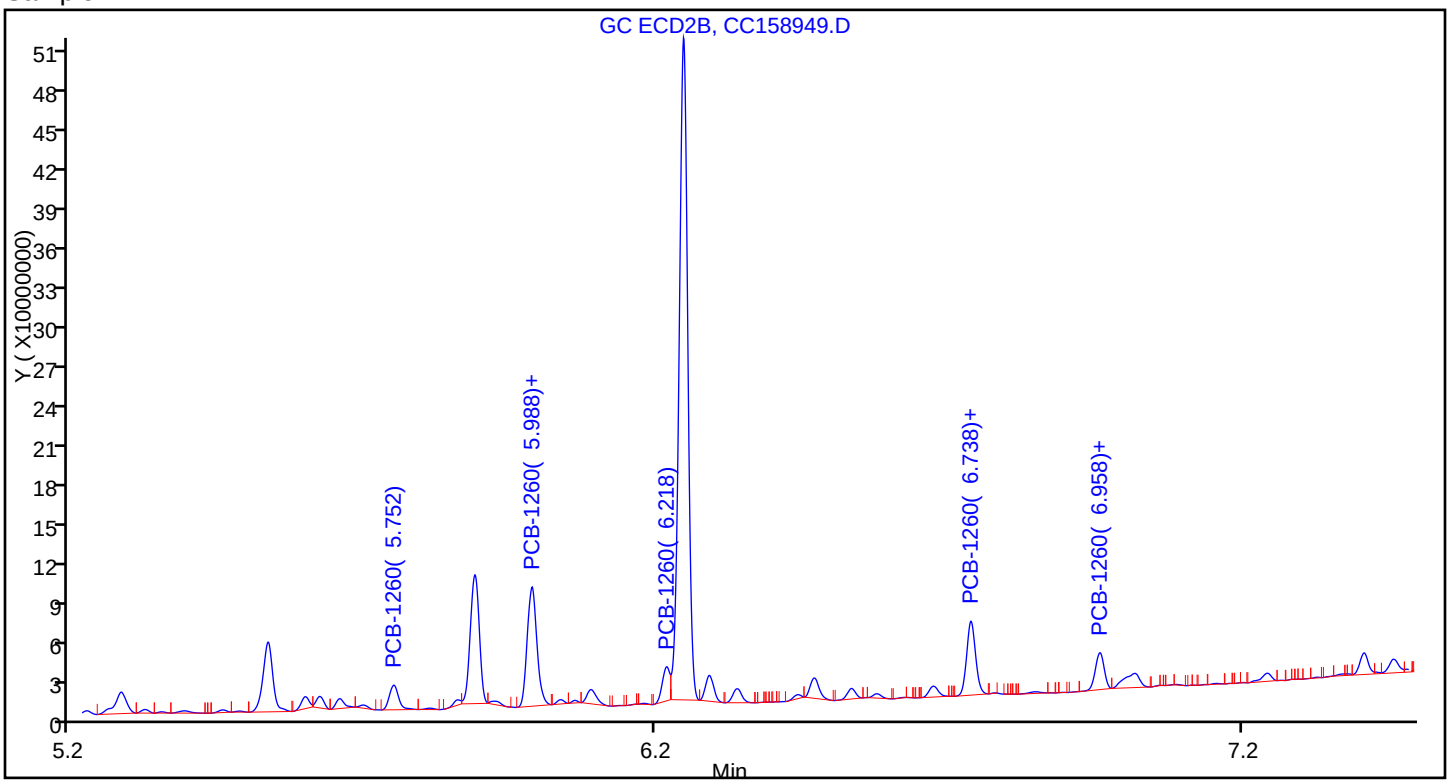


Report Date: 25-Aug-2011 12:46:26 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158949.D
Injection Date: 25-Aug-2011 12:26:31 Limit Group: 8082 PCBs
Client ID: 11NVNCDS04 Instrument ID: TAC042
Lims Batch ID: 93679 Lims Sample ID: 6
Operator ID: bat Injection Vol: 1.00 ul
9 PCB-1260, Detector: 2, GC ECD2B

Calibration Sample, Level: 6



Sample



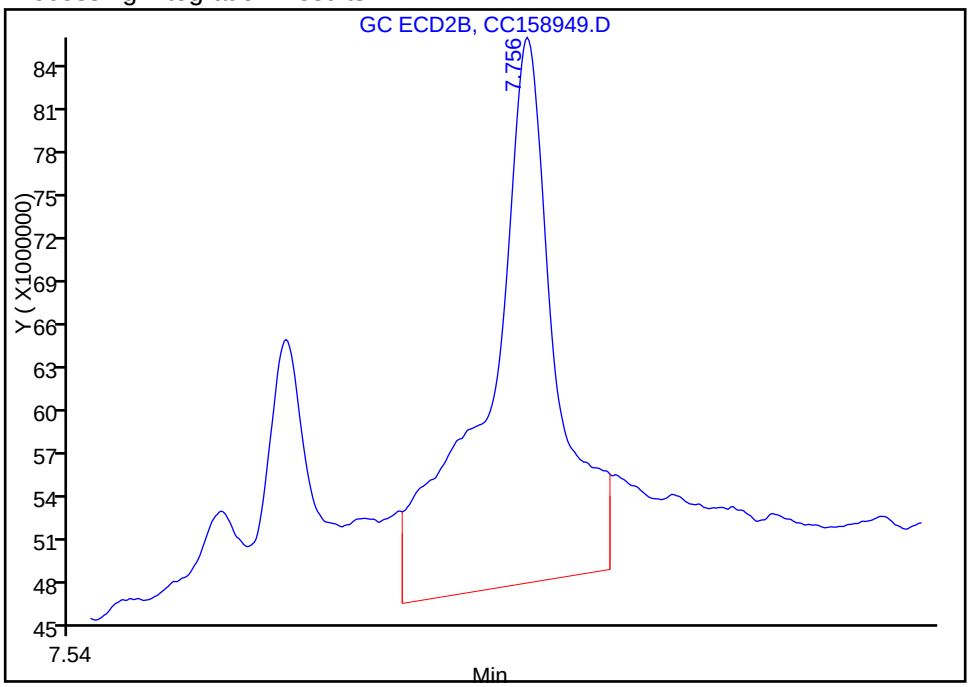
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158949.D		
Injection Date:	25-Aug-2011 12:26:31	Limit Group:	8082 PCBs
Client ID:	11NVNCDS04	Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	6
Operator ID:	bat	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.75, Det: GC ECD2B

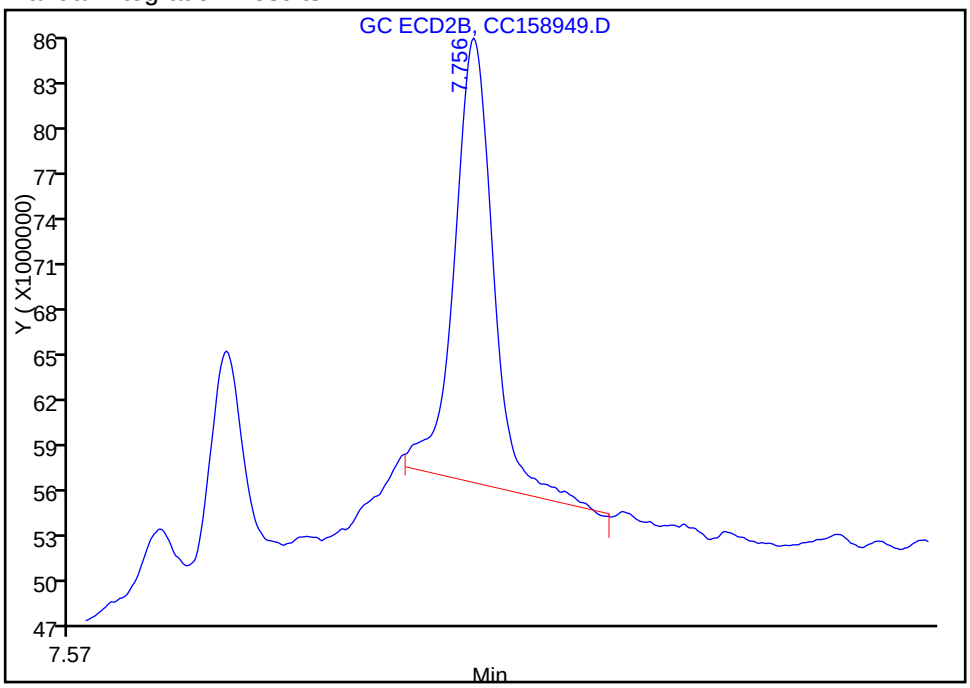
Processing Integration Results

RT: 7.76
Response: 83143643
Amount: 40.843611



Manual Integration Results

RT: 7.76
Response: 36861624
Amount: 18.107961



Reviewer: tadesseb, 25-Aug-2011 12:44:15
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 09:34 Calibration End Date: 03/03/2011 10:45 Calibration ID: 7347

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/2	CC155047.D
Level 2	IC 580-81563/3	CC155048.D
Level 3	IC 580-81563/4	CC155049.D
Level 4	IC 580-81563/5	CC155050.D
Level 5	IC 580-81563/6	CC155051.D
Level 6	IC 580-81563/7	CC155052.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	3.888	3.888	3.888	3.889	3.889	3.889					3.859 - 3.919	3.889
PCB-1016 Peak 2	4.095	4.094	4.095	4.095	4.095	4.095					4.065 - 4.125	4.095
PCB-1016 Peak 3	4.361	4.362	4.362	4.362	4.362	4.362					4.332 - 4.392	4.362
PCB-1016 Peak 4	4.607	4.607	4.608	4.607	4.608	4.607					4.577 - 4.637	4.607
PCB-1016 Peak 5	4.820	4.820	4.820	4.821	4.820	4.820					4.791 - 4.851	4.820
PCB-1260 Peak 1	5.839	5.838	5.839	5.839	5.839	5.838					5.809 - 5.869	5.839
PCB-1260 Peak 2	6.020	6.020	6.019	6.020	6.020	6.019					5.990 - 6.050	6.020
PCB-1260 Peak 3	6.309	6.307	6.308	6.307	6.308	6.307					6.277 - 6.337	6.308
PCB-1260 Peak 4	6.788	6.787	6.788	6.787	6.788	6.787					6.757 - 6.817	6.788
PCB-1260 Peak 5	7.073	7.073	7.073	7.073	7.072	7.072					7.043 - 7.103	7.073
Tetrachloro-m-xylene	3.164	3.164	3.165	3.164	3.165	3.165					3.134 - 3.194	3.165
DCB Decachlorobiphenyl	7.865	7.864	7.864	7.863	7.863	7.863					7.833 - 7.893	7.864

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 09:34 Calibration End Date: 03/03/2011 10:45 Calibration ID: 7347

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/2	CC155047.D
Level 2	IC 580-81563/3	CC155048.D
Level 3	IC 580-81563/4	CC155049.D
Level 4	IC 580-81563/5	CC155050.D
Level 5	IC 580-81563/6	CC155051.D
Level 6	IC 580-81563/7	CC155052.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	27875 23662	29249 22349	27926	25407	Ave		26077.9825				10.0		20.0			
PCB-1016 Peak 2	25470 23835	28208 23859	28476	26083	Ave		25988.5232				7.8		20.0			
PCB-1016 Peak 3	44139 45800	48776 48544	48176	45709	Ave		46857.3058				4.1		20.0			
PCB-1016 Peak 4	30188 20371	28616 19962	25331	22636	Lin1	146717.885	20042.4427							0.9990		0.9900
PCB-1016 Peak 5	28230 24461	28864 24812	28107	26022	Ave		26749.3283				7.1		20.0			
PCB-1260 Peak 1	54758 47041	56238 49045	54450	49613	Ave		51857.3725				7.2		20.0			
PCB-1260 Peak 2	63841 53744	67286 57540	63951	58499	Lin1	148493.329	56281.1935							0.9980		0.9900
PCB-1260 Peak 3	95588 69471	84876 68523	80617	74463	Lin1	336012.896	68674.7075							1.0000		0.9900
PCB-1260 Peak 4	85240 86394	96282 94447	95439	89482	Ave		91214.1143				5.3		20.0			
PCB-1260 Peak 5	73846 64476	77147 69507	73132	68068	Ave		71029.2453				6.4		20.0			
Tetrachloro-m-xylene	974326 1038918	1044749 1082110	1045053	1002126	Ave		1031213.94				3.7		20.0			
DCB Decachlorobiphenyl	1093816 690856	897216 711357	806485	750891	Lin1	409136.133	700316.918							1.0000		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 09:34 Calibration End Date: 03/03/2011 10:45 Calibration ID: 7347

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/2	CC155047.D
Level 2	IC 580-81563/3	CC155048.D
Level 3	IC 580-81563/4	CC155049.D
Level 4	IC 580-81563/5	CC155050.D
Level 5	IC 580-81563/6	CC155051.D
Level 6	IC 580-81563/7	CC155052.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	278750 22349291	584984	1396287	2540653	11831067	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 2	Ave	254704 23858617	564163	1423803	2608289	11917511	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 3	Ave	441393 48543663	975524	2408778	4570926	22899926	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 4	Lin1	301883 19961739	572319	1266546	2263609	10185515	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 5	Ave	282303 24811804	577282	1405358	2602199	12230308	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 1	Ave	547582 49044991	1124750	2722489	4961312	23520322	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 2	Lin1	638411 57539516	1345720	3197554	5849927	26872237	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 3	Lin1	955877 68523469	1697528	4030842	7446307	34735563	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 4	Ave	852404 94446622	1925631	4771966	8948240	43197197	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 5	Ave	738457 69507418	1542931	3656596	6806752	32238182	10.0 1000	20.0	50.0	100	500
Tetrachloro-m-xylene	Ave	974414 108220747	2089686	5225737	10022166	51950600	1.00 100	2.00	5.00	10.0	50.0
DCB Decachlorobiphenyl	Lin1	1093816 71135663	1794432	4032424	7508909	34542815	1.00 100	2.00	5.00	10.0	50.0

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155047.D		
Lims ID:	ic std 1660 10	Client ID:	
Inject. Date:	03-Mar-2011 09:34:18	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	ic std 1660 10		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	2
Lims Batch ID:	81563	Lims Sample ID:	2
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:20:18	Calib Date:	03-Mar-2011 09:34:18
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155047.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:20:18

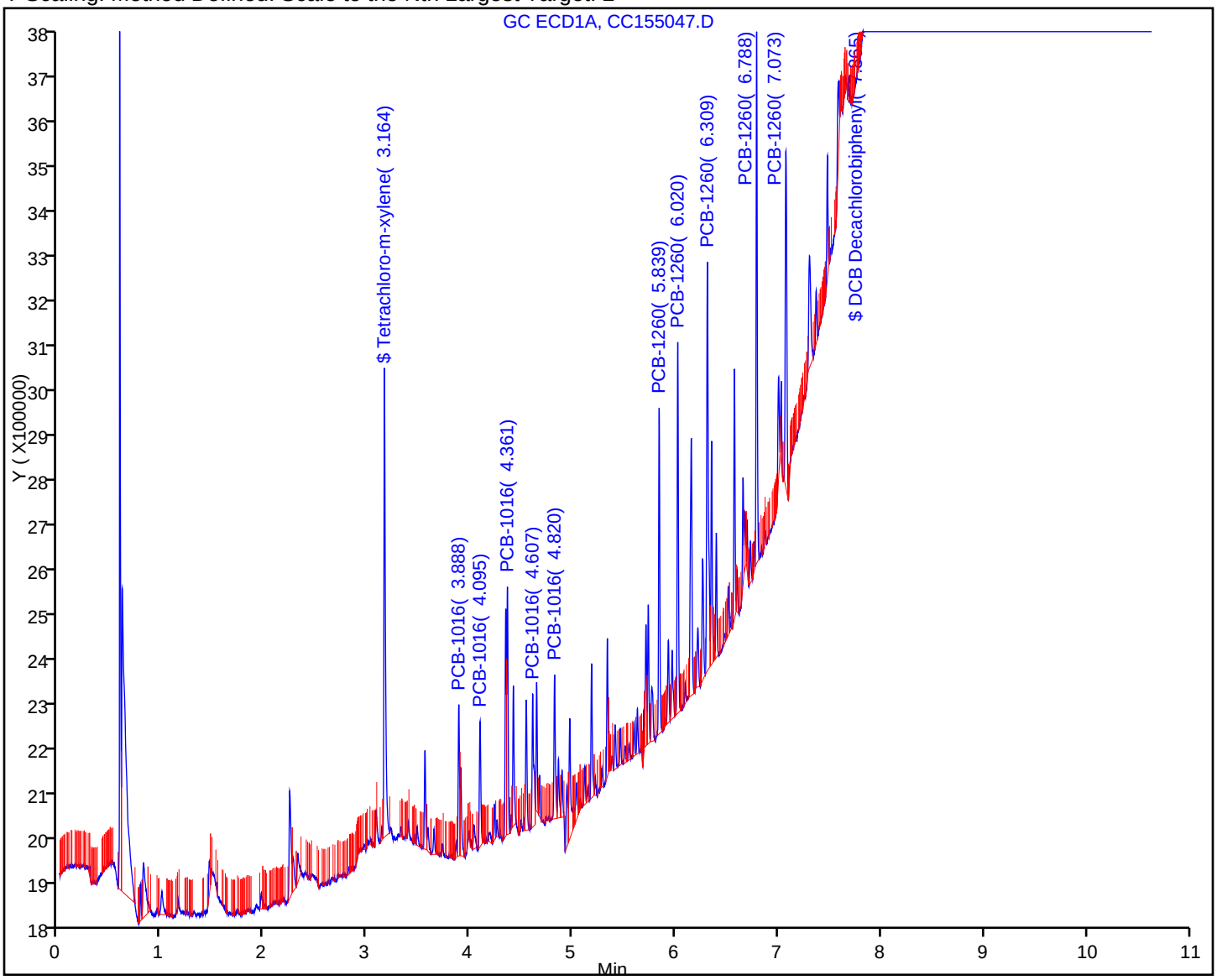
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	974414	0.5247			
2	2	3.208	3.208	0.000	2376090	1.20			
						RPD = 78.40			
$ 2 DCB Decachlorobiphenyl									
1	1	7.865	7.865	0.000	1093816	0.8615			
2	2	7.897	7.897	0.000	2004490	1.46			
						RPD = 51.65			
6 PCB-1016									M
1	1	3.888	3.888	0.000	278750	6.59		100.0	
1	2	4.095	4.095	0.000	254704	5.85	112.9- 172.9	91.4	A
1	3	4.361	4.361	0.000	441393	5.39	238.5- 298.5	158.3	A
1	4	4.607	4.607	0.000	301883	6.91	103.8- 163.8	108.3	M
1	5	4.820	4.820	0.000	282303	6.63	109.0- 169.0	101.3	A
			Average of Peak Amounts =			6.27			
2	6	3.902	3.902	0.000	681840	14.9		100.0	
2	7	4.097	4.097	0.000	786925	11.5	73.1- 133.1	115.4	A
2	8	4.400	4.400	0.000	1208126	19.7	96.8- 156.8	177.2	
2	9	4.663	4.663	0.000	492387	14.2	49.5- 109.5	72.2	A
2	10	4.847	4.847	0.000	588526	13.9	68.3- 128.3	86.3	A
			Average of Peak Amounts =			14.8			
						RPD = 81.07			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	547582	7.12		100.0	
1	2	6.020	6.020	0.000	638411	7.20	88.0- 148.0	116.6	A
1	3	6.309	6.309	0.000	955877	13.8	50.2- 110.2	174.6	A
1	4	6.788	6.788	0.000	852404	6.36	152.6- 212.6	155.7	A
1	5	7.073	7.073	0.000	738457	6.92	109.0- 169.0	134.9	A
			Average of Peak Amounts =			8.27			
2	6	5.887	5.887	0.000	1156691	14.7		100.0	
2	7	6.124	6.124	0.000	2088038	16.7	124.6- 184.6	180.5	A
2	8	6.354	6.354	0.000	1689570	24.6	42.5- 102.5	146.1	A
2	9	6.871	6.871	0.000	2089416	25.8	50.9- 110.9	180.6	A
2	10	7.091	7.091	0.000	1293313	14.9	86.3- 146.3	111.8	A
			Average of Peak Amounts =			19.3			
						RPD = 80.09			
S 12 Polychlorinated biphenyls, Total									
1						14.5			
2						34.1			
						RPD = 80.51			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:20:19 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155047.D
Injection Date: 03-Mar-2011 09:34:18 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 2
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155048.D		
Lims ID:	ic std 1660 20	Client ID:	
Inject. Date:	03-Mar-2011 09:48:23	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	ic std 1660 20		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	3
Lims Batch ID:	81563	Lims Sample ID:	3
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:20:34	Calib Date:	03-Mar-2011 09:48:23
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155048.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:20:34

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	2089686	1.23			
2	2	3.209	3.208	0.001	5229259	2.49			
						RPD = 67.51			
$ 2 DCB Decachlorobiphenyl									
1	1	7.864	7.865	-0.001	1794432	1.63			
2	2	7.897	7.897	0.000	4517927	2.96			
						RPD = 57.77			
6 PCB-1016									
1	1	3.888	3.888	0.000	584984	18.3		100.0	
1	2	4.094	4.095	-0.001	564163	14.4	112.9- 172.9	96.4	
1	3	4.362	4.361	0.001	975524	13.2	238.5- 298.5	166.8	
1	4	4.607	4.607	0.000	572319	16.3	103.8- 163.8	97.8	
1	5	4.820	4.820	0.000	577282	14.8	109.0- 169.0	98.7	
			Average of Peak Amounts =			15.4			
2	6	3.903	3.902	0.001	1445136	28.9		100.0	
2	7	4.097	4.097	0.000	1538031	27.3	73.1- 133.1	106.4	
2	8	4.400	4.400	0.000	2651906	35.6	96.8- 156.8	183.5	
2	9	4.663	4.663	0.000	1043290	27.8	49.5- 109.5	72.2	
2	10	4.848	4.847	0.001	1274903	27.8	68.3- 128.3	88.2	
			Average of Peak Amounts =			29.5			
						RPD = 62.76			

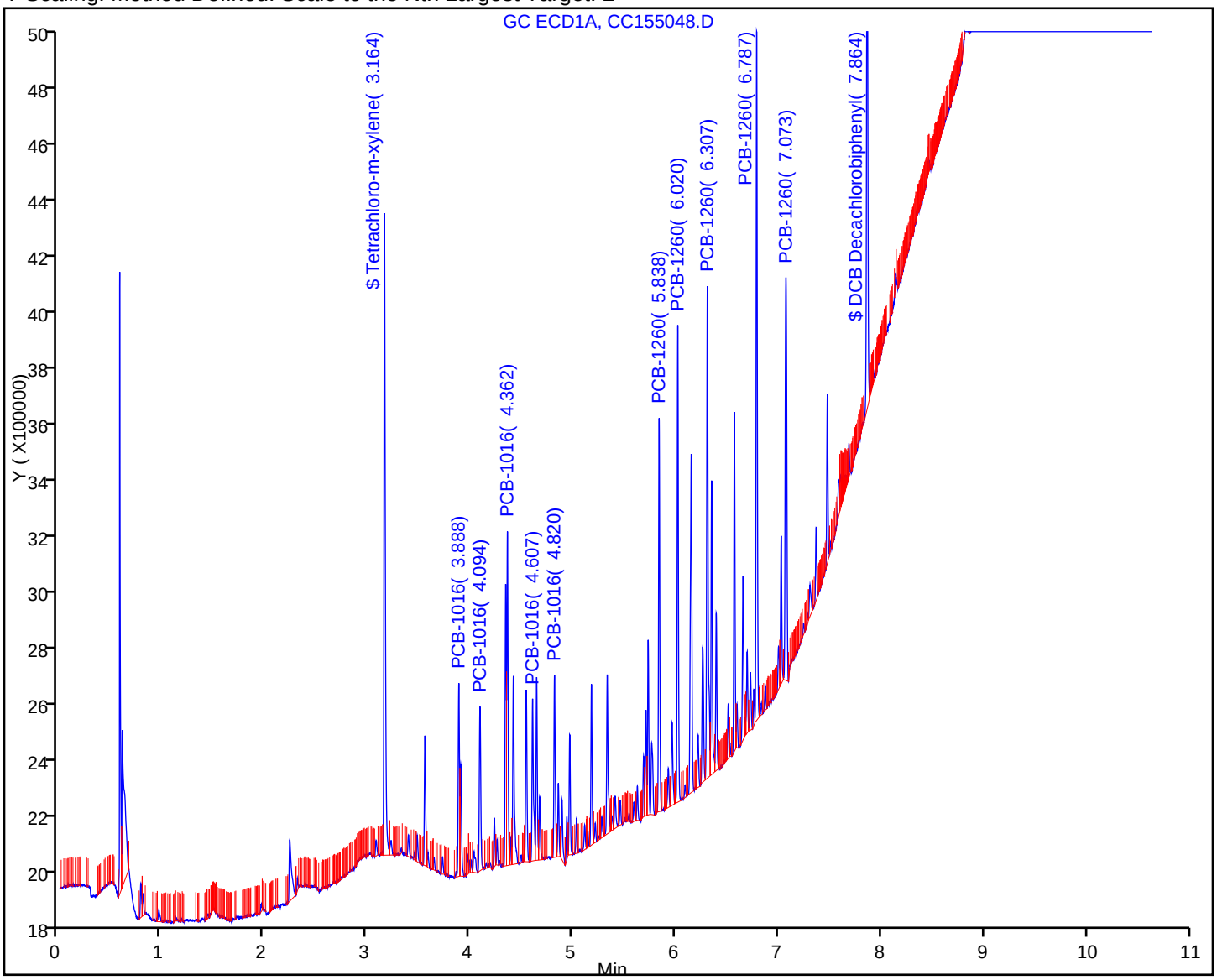
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.838	5.839	-0.001	1124750	15.7		100.0	
1	2	6.020	6.020	0.000	1345720	16.3	88.0- 148.0	119.6	
1	3	6.307	6.309	-0.002	1697528	23.6	50.2- 110.2	150.9	
1	4	6.787	6.788	-0.001	1925631	15.4	152.6- 212.6	171.2	
1	5	7.073	7.073	0.000	1542931	15.7	109.0- 169.0	137.2	
			Average of Peak Amounts =			17.4			
2	6	5.888	5.887	0.001	2486786	28.7		100.0	
2	7	6.125	6.124	0.001	3947232	28.4	124.6- 184.6	158.7	
2	8	6.354	6.354	0.000	3457944	38.9	42.5- 102.5	139.1	
2	9	6.872	6.871	0.001	4564699	41.6	50.9- 110.9	183.6	
2	10	7.091	7.091	0.000	2671277	28.0	86.3- 146.3	107.4	
			Average of Peak Amounts =			33.1			
						RPD = 62.43			
S 12 Polychlorinated biphenyls, Total									
1						32.8			
2						62.6			
						RPD = 62.58			

Report Date: 03-Mar-2011 13:20:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155048.D

Injection Date:	03-Mar-2011 09:48:23	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	3
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155049.D		
Lims ID:	ic std 1660 50	Client ID:	
Inject. Date:	03-Mar-2011 10:02:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	ic std 1660 50		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	4
Lims Batch ID:	81563	Lims Sample ID:	4
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:20:56	Calib Date:	03-Mar-2011 10:02:30
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155049.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:20:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	5225737	3.36			
2	2	3.210	3.208	0.002	13883113	6.15			
						RPD = 58.56			
$ 2 DCB Decachlorobiphenyl									
1	1	7.864	7.865	-0.001	4032424	3.41			
2	2	7.898	7.897	0.001	10686012	6.33			
						RPD = 59.87			
6 PCB-1016									
1	1	3.888	3.888	0.000	1396287	45.7		100.0	
1	2	4.095	4.095	0.000	1423803	39.6	112.9- 172.9	102.0	
1	3	4.362	4.361	0.001	2408778	35.7	238.5- 298.5	172.5	
1	4	4.608	4.607	0.001	1266546	34.1	103.8- 163.8	90.7	
1	5	4.820	4.820	0.000	1405358	39.2	109.0- 169.0	100.6	
			Average of Peak Amounts =			38.8			
2	6	3.905	3.902	0.003	3440630	63.3		100.0	
2	7	4.099	4.097	0.002	3473104	74.4	73.1- 133.1	100.9	
2	8	4.401	4.400	0.001	6628559	74.9	96.8- 156.8	192.7	
2	9	4.664	4.663	0.001	2571349	63.2	49.5- 109.5	74.7	
2	10	4.849	4.847	0.002	3121175	62.7	68.3- 128.3	90.7	
			Average of Peak Amounts =			67.7			
						RPD = 54.16			

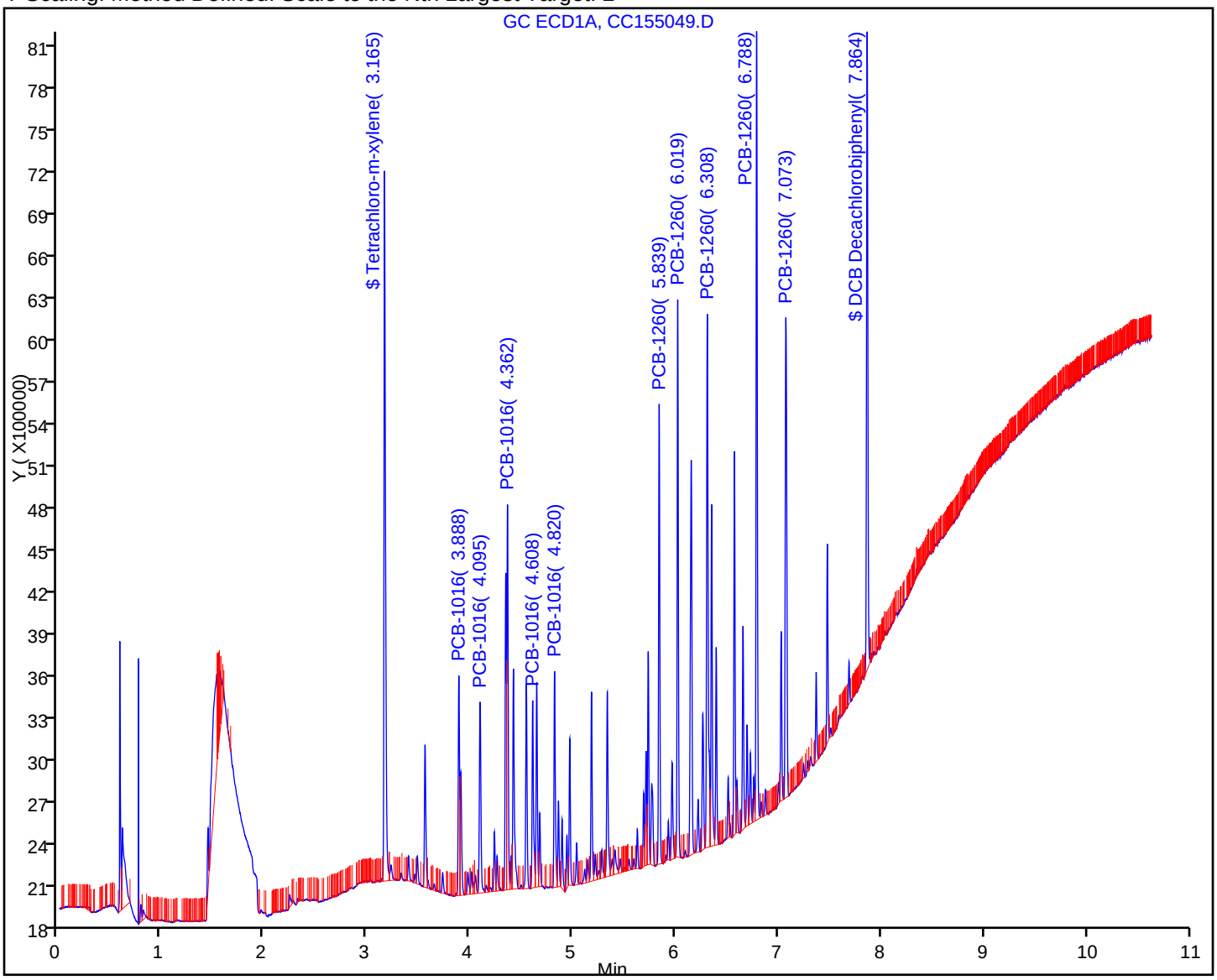
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	2722489	40.6		100.0	
1	2	6.019	6.020	-0.001	3197554	41.0	88.0- 148.0	117.4	
1	3	6.308	6.309	-0.001	4030842	53.5	50.2- 110.2	148.1	
1	4	6.788	6.788	0.000	4771966	40.3	152.6- 212.6	175.3	
1	5	7.073	7.073	0.000	3656596	39.3	109.0- 169.0	134.3	
			Average of Peak Amounts =			43.0			
2	6	5.889	5.887	0.002	6081863	63.6		100.0	
2	7	6.126	6.124	0.002	9466360	61.8	124.6- 184.6	155.6	
2	8	6.355	6.354	0.001	8483382	77.5	42.5- 102.5	139.5	
2	9	6.873	6.871	0.002	11012298	79.9	50.9- 110.9	181.1	
2	10	7.092	7.091	0.001	6462225	61.7	86.3- 146.3	106.3	
			Average of Peak Amounts =			68.9			
						RPD = 46.39			
S 12 Polychlorinated biphenyls, Total									
1						81.8			
2						136.6			
						RPD = 50.18			

Report Date: 03-Mar-2011 13:20:56 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155049.D

Injection Date:	03-Mar-2011 10:02:30	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	4
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

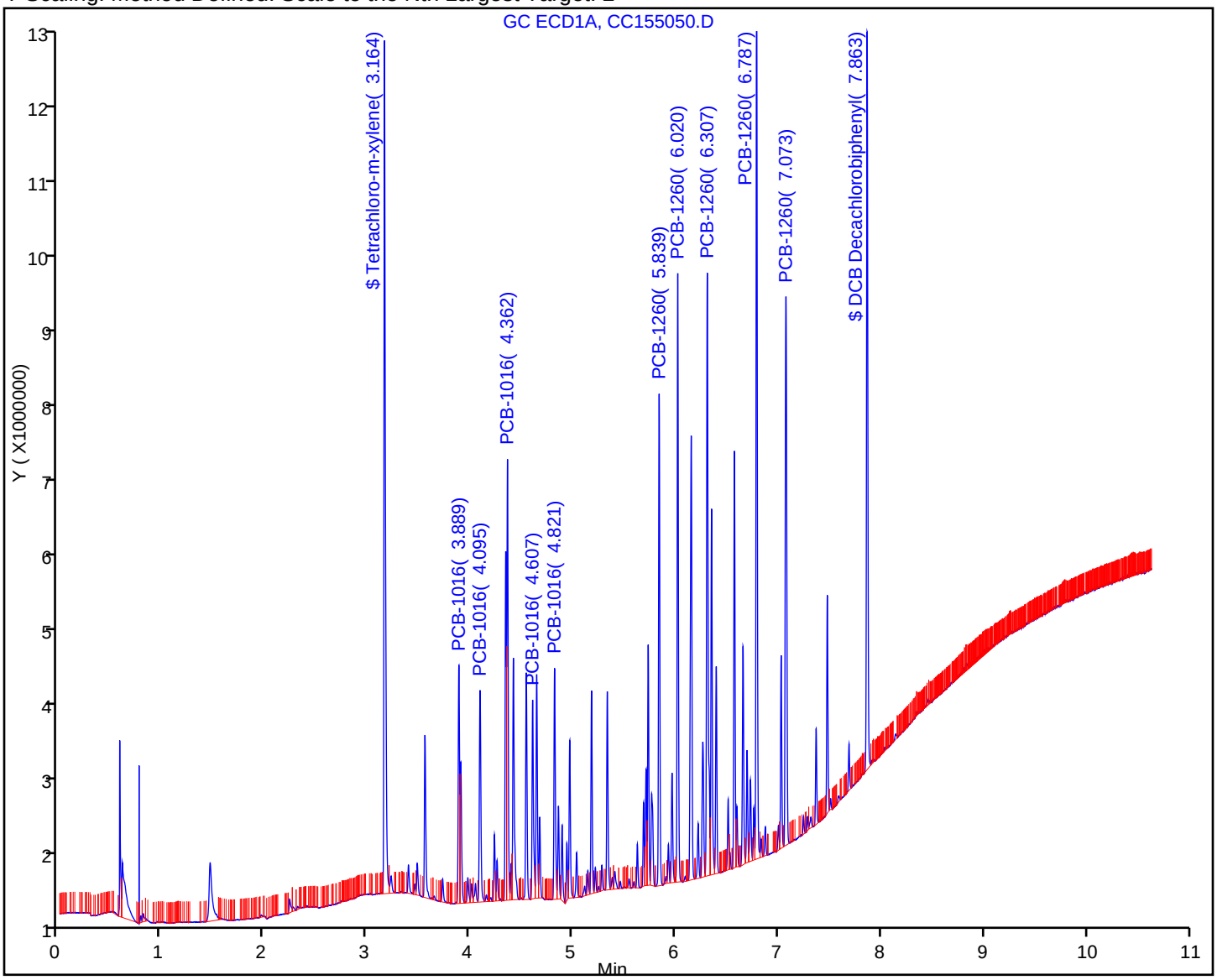
Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155050.D		
Lims ID:	ic std 1660 100	Client ID:	
Inject. Date:	03-Mar-2011 10:16:40	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	ic std 1660 100		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	5
Lims Batch ID:	81563	Lims Sample ID:	5
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:21:14	Calib Date:	03-Mar-2011 10:16:40
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155050.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:21:14

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	10022166	7.25			
2	2	3.210	3.210	0.000	26511051	11.1			
						RPD = 42.27			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	7508909	6.18			
2	2	7.898	7.898	0.000	19960109	11.0			
						RPD = 56.06			
6 PCB-1016									
1	1	3.889	3.889	0.000	2540653	84.8		100.0	
1	2	4.095	4.095	0.000	2608289	80.2	112.9- 172.9	102.7	
1	3	4.362	4.362	0.000	4570926	74.8	238.5- 298.5	179.9	
1	4	4.607	4.607	0.000	2263609	60.0	103.8- 163.8	89.1	
1	5	4.821	4.821	0.000	2602199	79.5	109.0- 169.0	102.4	
			Average of Peak Amounts =			75.9			
2	6	3.905	3.905	0.000	6308349	109.2		100.0	
2	7	4.099	4.099	0.000	6422737	145.7	73.1- 133.1	101.8	
2	8	4.401	4.401	0.000	12506998	123.9	96.8- 156.8	198.3	
2	9	4.665	4.665	0.000	4720477	109.4	49.5- 109.5	74.8	
2	10	4.850	4.850	0.000	5790315	109.4	68.3- 128.3	91.8	
			Average of Peak Amounts =			119.5			
						RPD = 44.69			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	4961312	79.6		100.0	
1	2	6.020	6.020	0.000	5849927	80.4	88.0- 148.0	117.9	
1	3	6.307	6.307	0.000	7446307	96.6	50.2- 110.2	150.1	
1	4	6.787	6.787	0.000	8948240	81.2	152.6- 212.6	180.4	
1	5	7.073	7.073	0.000	6806752	78.9	109.0- 169.0	137.2	
			Average of Peak Amounts =			83.3			
2	6	5.889	5.889	0.000	11122748	109.1		100.0	
2	7	6.127	6.127	0.000	17111206	104.6	124.6- 184.6	153.8	
2	8	6.355	6.355	0.000	15804057	123.5	42.5- 102.5	142.1	
2	9	6.873	6.873	0.000	20692183	126.6	50.9- 110.9	186.0	
2	10	7.092	7.092	0.000	12757956	112.6	86.3- 146.3	114.7	
			Average of Peak Amounts =			115.3			
						RPD = 32.15			
S 12 Polychlorinated biphenyls, Total									
1						159.2			
2						234.8			
						RPD = 38.37			

Report Date: 03-Mar-2011 13:21:14 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155050.D
Injection Date: 03-Mar-2011 10:16:40 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 5
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155051.D		
Lims ID:	ic std 1660 500	Client ID:	
Inject. Date:	03-Mar-2011 10:30:54	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	ic std 1660 500		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	6
Lims Batch ID:	81563	Lims Sample ID:	6
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:21:35	Calib Date:	03-Mar-2011 10:30:54
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155051.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:21:35

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	51950600	43.0			
2	2	3.210	3.210	0.000	131503798	52.6			
						RPD = 20.03			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	34542815	30.6			
2	2	7.898	7.898	0.000	94281773	49.1			
						RPD = 46.31			
6 PCB-1016									
1	1	3.889	3.889	0.000	11831067	419.5		100.0	
1	2	4.095	4.095	0.000	11917511	407.8	112.9- 172.9	100.7	
1	3	4.362	4.362	0.000	22899926	425.6	238.5- 298.5	193.6	
1	4	4.608	4.607	0.001	10185515	286.7	103.8- 163.8	86.1	
1	5	4.820	4.821	-0.001	12230308	411.8	109.0- 169.0	103.4	
			Average of Peak Amounts =			390.3			
2	6	3.905	3.905	0.000	27985661	460.8		100.0	
2	7	4.099	4.099	0.000	28333552	620.3	73.1- 133.1	101.2	
2	8	4.401	4.401	0.000	58747508	521.9	96.8- 156.8	209.9	
2	9	4.665	4.665	0.000	19876257	443.6	49.5- 109.5	71.0	
2	10	4.850	4.850	0.000	26107741	471.3	68.3- 128.3	93.3	
			Average of Peak Amounts =			503.6			
						RPD = 25.35			

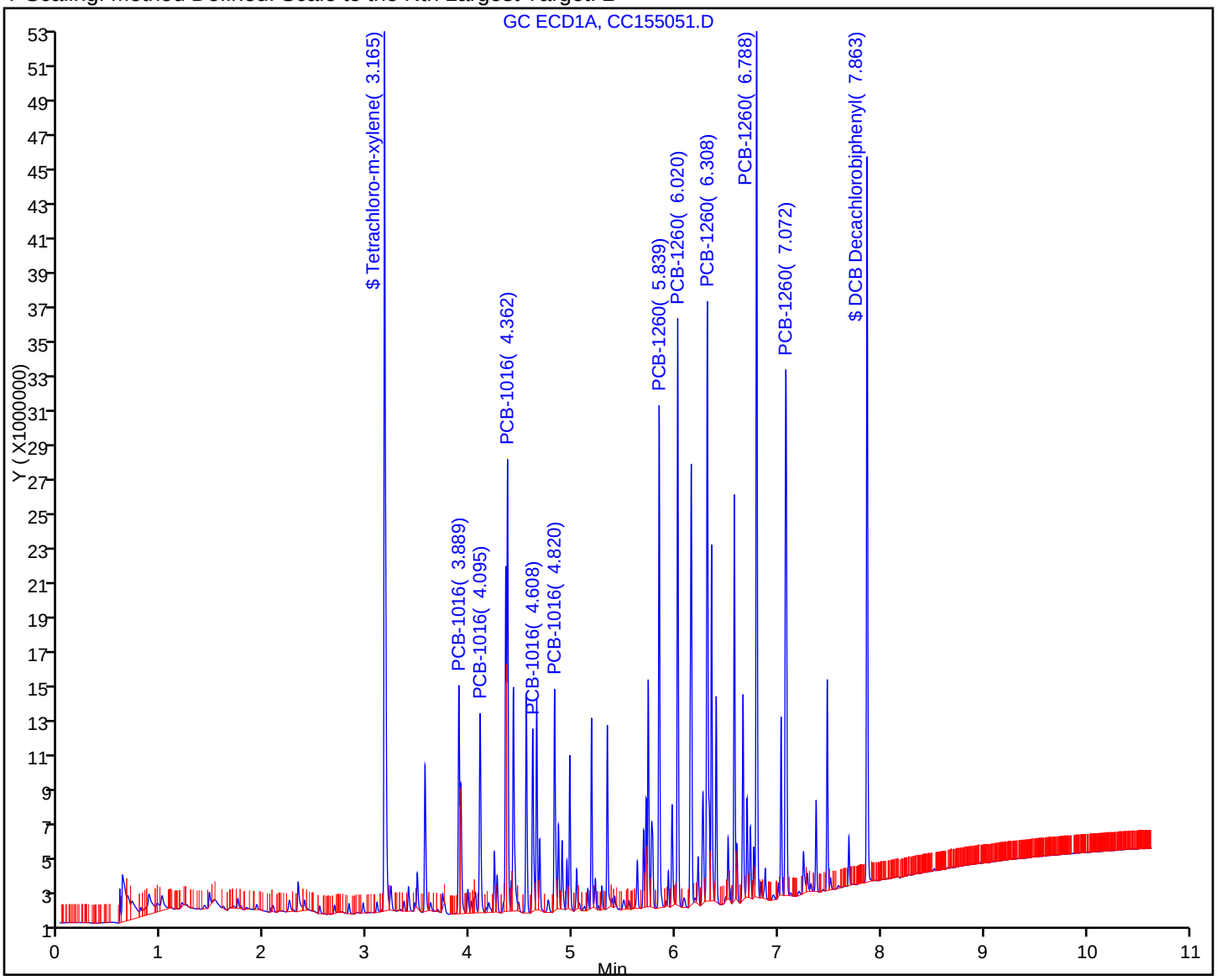
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	23520322	413.0		100.0	
1	2	6.020	6.020	0.000	26872237	404.8	88.0- 148.0	114.3	
1	3	6.308	6.307	0.001	34735563	445.2	50.2- 110.2	147.7	
1	4	6.788	6.787	0.001	43197197	433.4	152.6- 212.6	183.7	
1	5	7.072	7.073	-0.001	32238182	413.7	109.0- 169.0	137.1	
			Average of Peak Amounts =			422.0			
2	6	5.889	5.889	0.000	53068274	491.0		100.0	
2	7	6.126	6.127	-0.001	82150837	474.5	124.6- 184.6	154.8	
2	8	6.355	6.355	0.000	78210917	536.5	42.5- 102.5	147.4	
2	9	6.873	6.873	0.000	102561579	545.9	50.9- 110.9	193.3	
2	10	7.092	7.092	0.000	62354839	516.9	86.3- 146.3	117.5	
			Average of Peak Amounts =			513.0			
						RPD = 19.45			
S 12 Polychlorinated biphenyls, Total									
1						812.3			
2						1016.5			
						RPD = 22.34			

Report Date: 03-Mar-2011 13:21:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155051.D

Injection Date:	03-Mar-2011 10:30:54	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	6
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155052.D		
Lims ID:	ic std 1660 1000	Client ID:	
Inject. Date:	03-Mar-2011 10:45:01	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	ic std 1660 1000		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	7
Lims Batch ID:	81563	Lims Sample ID:	7
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:25:18	Calib Date:	03-Mar-2011 10:45:01
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155052.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:25:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	108220747	104.9			
2	2	3.211	3.210	0.001	261866287	100.3			
						RPD = 4.53			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	71135663	101.0			
2	2	7.897	7.898	-0.001	193164860	94.9			
						RPD = 6.23			
6 PCB-1016									
1	1	3.889	3.889	0.000	22349291	857.0		100.0	
1	2	4.095	4.095	0.000	23858617	918.0	112.9- 172.9	106.8	
1	3	4.362	4.362	0.000	48543663	1036.0	238.5- 298.5	217.2	
1	4	4.607	4.607	0.000	19961739	988.7	103.8- 163.8	89.3	
1	5	4.820	4.821	-0.001	24811804	927.6	109.0- 169.0	111.0	
			Average of Peak Amounts =			945.5			
2	6	3.905	3.905	0.000	56169294	876.6		100.0	
2	7	4.099	4.099	0.000	57396100	999.0	73.1- 133.1	102.2	
2	8	4.401	4.401	0.000	126186742	1003.2	96.8- 156.8	224.7	
2	9	4.665	4.665	0.000	41816076	891.0	49.5- 109.5	74.4	
2	10	4.850	4.850	0.000	53708784	923.8	68.3- 128.3	95.6	
			Average of Peak Amounts =			938.7			
						RPD = 0.72			

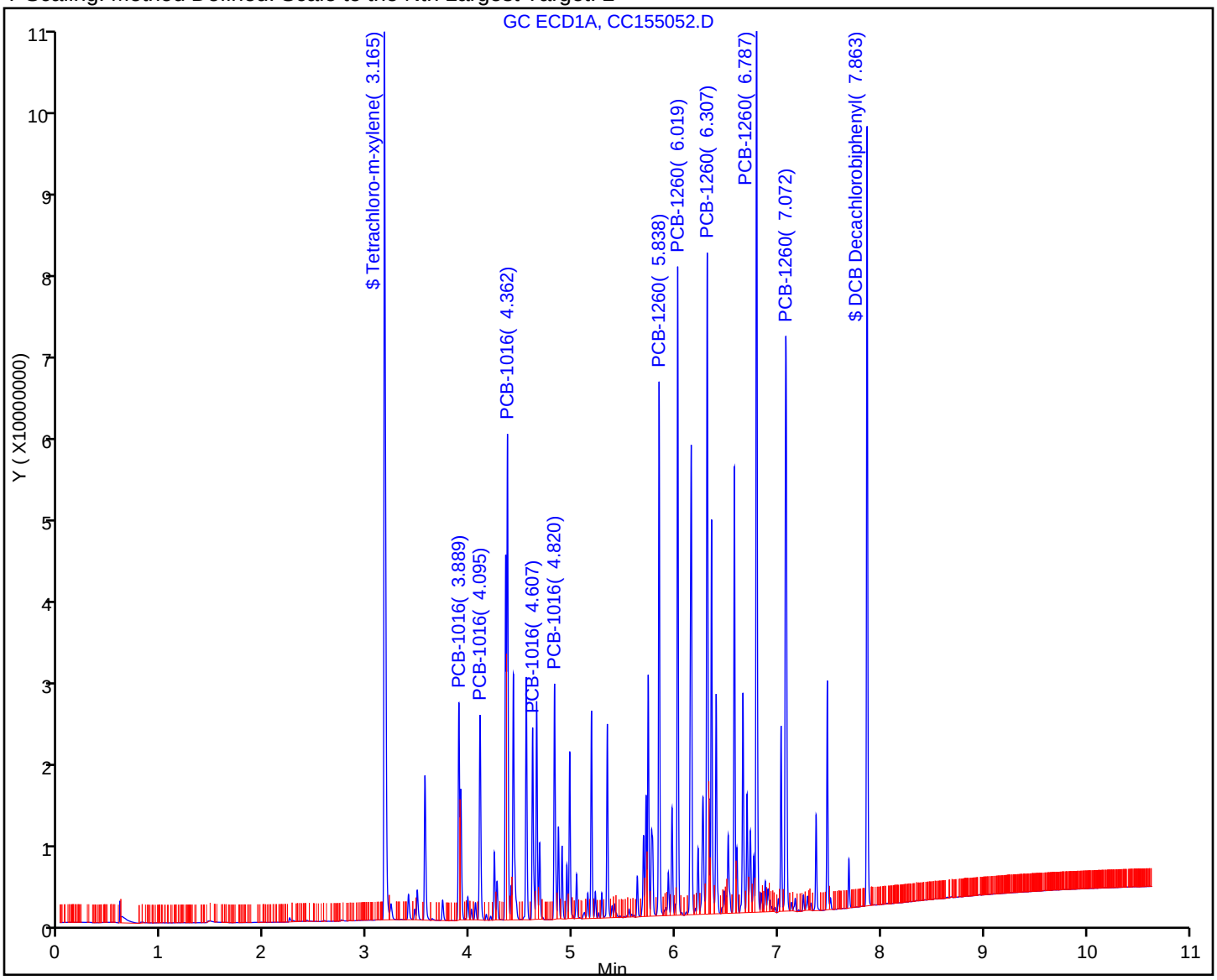
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.838	5.839	-0.001	49044991	945.8		100.0	
1	2	6.019	6.020	-0.001	57539516	1019.7	88.0- 148.0	117.3	
1	3	6.307	6.307	0.000	68523469	992.9	50.2- 110.2	139.7	
1	4	6.787	6.787	0.000	94446622	1035.4	152.6- 212.6	192.6	
1	5	7.072	7.073	-0.001	69507418	978.6	109.0- 169.0	141.7	
			Average of Peak Amounts =			994.5			
2	6	5.889	5.889	0.000	109876814	957.0		100.0	
2	7	6.126	6.127	-0.001	172082538	1015.3	124.6- 184.6	156.6	
2	8	6.355	6.355	0.000	169160554	1019.9	42.5- 102.5	154.0	
2	9	6.873	6.873	0.000	220384236	1025.2	50.9- 110.9	200.6	
2	10	7.092	7.092	0.000	133884644	1032.1	86.3- 146.3	121.8	
			Average of Peak Amounts =			1009.9			
						RPD = 1.54			
S 12 Polychlorinated biphenyls, Total									
1						1939.9			
2						1948.6			
						RPD = 0.45			

Report Date: 03-Mar-2011 13:25:18 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155052.D

Injection Date:	03-Mar-2011 10:45:01	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	7
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 09:34 Calibration End Date: 03/03/2011 10:45 Calibration ID: 7348

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/2	CC155047.D
Level 2	IC 580-81563/3	CC155048.D
Level 3	IC 580-81563/4	CC155049.D
Level 4	IC 580-81563/5	CC155050.D
Level 5	IC 580-81563/6	CC155051.D
Level 6	IC 580-81563/7	CC155052.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1016 Peak 1	3.902	3.903	3.905	3.905	3.905	3.905					3.875 - 3.935	3.904
PCB-1016 Peak 2	4.097	4.097	4.099	4.099	4.099	4.099					4.069 - 4.129	4.098
PCB-1016 Peak 3	4.400	4.400	4.401	4.401	4.401	4.401					4.371 - 4.431	4.401
PCB-1016 Peak 4	4.663	4.663	4.664	4.665	4.665	4.665					4.635 - 4.695	4.664
PCB-1016 Peak 5	4.847	4.848	4.849	4.850	4.850	4.850					4.820 - 4.880	4.849
PCB-1260 Peak 1	5.887	5.888	5.889	5.889	5.889	5.889					5.859 - 5.919	5.889
PCB-1260 Peak 2	6.124	6.125	6.126	6.127	6.126	6.126					6.097 - 6.157	6.126
PCB-1260 Peak 3	6.354	6.354	6.355	6.355	6.355	6.355					6.325 - 6.385	6.355
PCB-1260 Peak 4	6.871	6.872	6.873	6.873	6.873	6.873					6.843 - 6.903	6.873
PCB-1260 Peak 5	7.091	7.091	7.092	7.092	7.092	7.092					7.062 - 7.122	7.092
Tetrachloro-m-xylene	3.208	3.209	3.210	3.210	3.210	3.211					3.180 - 3.240	3.210
DCB Decachlorobiphenyl	7.897	7.897	7.898	7.898	7.898	7.897					7.868 - 7.928	7.898

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 09:34 Calibration End Date: 03/03/2011 10:45 Calibration ID: 7348

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/2	CC155047.D
Level 2	IC 580-81563/3	CC155048.D
Level 3	IC 580-81563/4	CC155049.D
Level 4	IC 580-81563/5	CC155050.D
Level 5	IC 580-81563/6	CC155051.D
Level 6	IC 580-81563/7	CC155052.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1016 Peak 1	68184 55971	72257 56169	68813	63083	Ave		64079.5843				11.0		20.0			
PCB-1016 Peak 2	78693 56667	76902 57396	69462	64227	Lin1	331269.410	57120.7337							0.9990		0.9900
PCB-1016 Peak 3	120813 117495	132595 126187	132571	125070	Ave		125788.470				4.9		20.0			
PCB-1016 Peak 4	49239 39753	52165 41816	51427	47205	Ave		46933.9233				11.0		20.0			
PCB-1016 Peak 5	58853 52215	63745 53709	62424	57903	Ave		58141.4443				7.9		20.0			
PCB-1260 Peak 1	115669 106137	124339 109877	121637	111227	Ave		114814.417				6.2		20.0			
PCB-1260 Peak 2	208804 164302	197362 172083	189327	171112	Lin1	486089.150	169005.760							0.9990		0.9900
PCB-1260 Peak 3	168957 156422	172897 169161	169668	158041	Ave		165857.466				4.1		20.0			
PCB-1260 Peak 4	208942 205123	228235 220384	220246	206922	Ave		214975.289				4.3		20.0			
PCB-1260 Peak 5	129331 124710	133564 133885	129245	127580	Ave		129718.922				2.7		20.0			
Tetrachloro-m-xylene	2375876 2629839	2614394 2618427	2776373	2650867	Ave		2610962.69				5.0		20.0			
DCB Decachlorobiphenyl	2004490 1885635	2258964 1931649	2137202	1996011	Ave		2035658.48				6.8		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 09:34 Calibration End Date: 03/03/2011 10:45 Calibration ID: 7348

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/2	CC155047.D
Level 2	IC 580-81563/3	CC155048.D
Level 3	IC 580-81563/4	CC155049.D
Level 4	IC 580-81563/5	CC155050.D
Level 5	IC 580-81563/6	CC155051.D
Level 6	IC 580-81563/7	CC155052.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Ave	681840 56169294	1445136	3440630	6308349	27985661	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 2	Lin1	786925 57396100	1538031	3473104	6422737	28333552	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 3	Ave	1208126 126186742	2651906	6628559	12506998	58747508	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 4	Ave	492387 41816076	1043290	2571349	4720477	19876257	10.0 1000	20.0	50.0	100	500
PCB-1016 Peak 5	Ave	588526 53708784	1274903	3121175	5790315	26107741	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 1	Ave	1156691 109876814	2486786	6081863	11122748	53068274	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 2	Lin1	2088038 172082538	3947232	9466360	17111206	82150837	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 3	Ave	1689570 169160554	3457944	8483382	15804057	78210917	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 4	Ave	2089416 220384236	4564699	11012298	20692183	102561579	10.0 1000	20.0	50.0	100	500
PCB-1260 Peak 5	Ave	1293313 133884644	2671277	6462225	12757956	62354839	10.0 1000	20.0	50.0	100	500
Tetrachloro-m-xylene	Ave	2376090 261866287	5229259	13883113	26511051	131503798	1.00 100	2.00	5.00	10.0	50.0
DCB Decachlorobiphenyl	Ave	2004490 193164860	4517927	10686012	19960109	94281773	1.00 100	2.00	5.00	10.0	50.0

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155047.D		
Lims ID:	ic std 1660 10	Client ID:	
Inject. Date:	03-Mar-2011 09:34:18	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	ic std 1660 10		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	2
Lims Batch ID:	81563	Lims Sample ID:	2
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:20:18	Calib Date:	03-Mar-2011 09:34:18
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155047.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:20:18

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	974414	0.5247			
2	2	3.208	3.208	0.000	2376090	1.20			
						RPD = 78.40			
$ 2 DCB Decachlorobiphenyl									
1	1	7.865	7.865	0.000	1093816	0.8615			
2	2	7.897	7.897	0.000	2004490	1.46			
						RPD = 51.65			
6 PCB-1016									M
1	1	3.888	3.888	0.000	278750	6.59		100.0	
1	2	4.095	4.095	0.000	254704	5.85	112.9- 172.9	91.4	A
1	3	4.361	4.361	0.000	441393	5.39	238.5- 298.5	158.3	A
1	4	4.607	4.607	0.000	301883	6.91	103.8- 163.8	108.3	M
1	5	4.820	4.820	0.000	282303	6.63	109.0- 169.0	101.3	A
			Average of Peak Amounts =			6.27			
2	6	3.902	3.902	0.000	681840	14.9		100.0	
2	7	4.097	4.097	0.000	786925	11.5	73.1- 133.1	115.4	A
2	8	4.400	4.400	0.000	1208126	19.7	96.8- 156.8	177.2	
2	9	4.663	4.663	0.000	492387	14.2	49.5- 109.5	72.2	A
2	10	4.847	4.847	0.000	588526	13.9	68.3- 128.3	86.3	A
			Average of Peak Amounts =			14.8			
						RPD = 81.07			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	547582	7.12		100.0	
1	2	6.020	6.020	0.000	638411	7.20	88.0- 148.0	116.6	A
1	3	6.309	6.309	0.000	955877	13.8	50.2- 110.2	174.6	A
1	4	6.788	6.788	0.000	852404	6.36	152.6- 212.6	155.7	A
1	5	7.073	7.073	0.000	738457	6.92	109.0- 169.0	134.9	A
			Average of Peak Amounts =			8.27			
2	6	5.887	5.887	0.000	1156691	14.7		100.0	
2	7	6.124	6.124	0.000	2088038	16.7	124.6- 184.6	180.5	A
2	8	6.354	6.354	0.000	1689570	24.6	42.5- 102.5	146.1	A
2	9	6.871	6.871	0.000	2089416	25.8	50.9- 110.9	180.6	A
2	10	7.091	7.091	0.000	1293313	14.9	86.3- 146.3	111.8	A
			Average of Peak Amounts =			19.3			
						RPD = 80.09			
S 12 Polychlorinated biphenyls, Total									
1						14.5			
2						34.1			
						RPD = 80.51			

QC Flag Legend

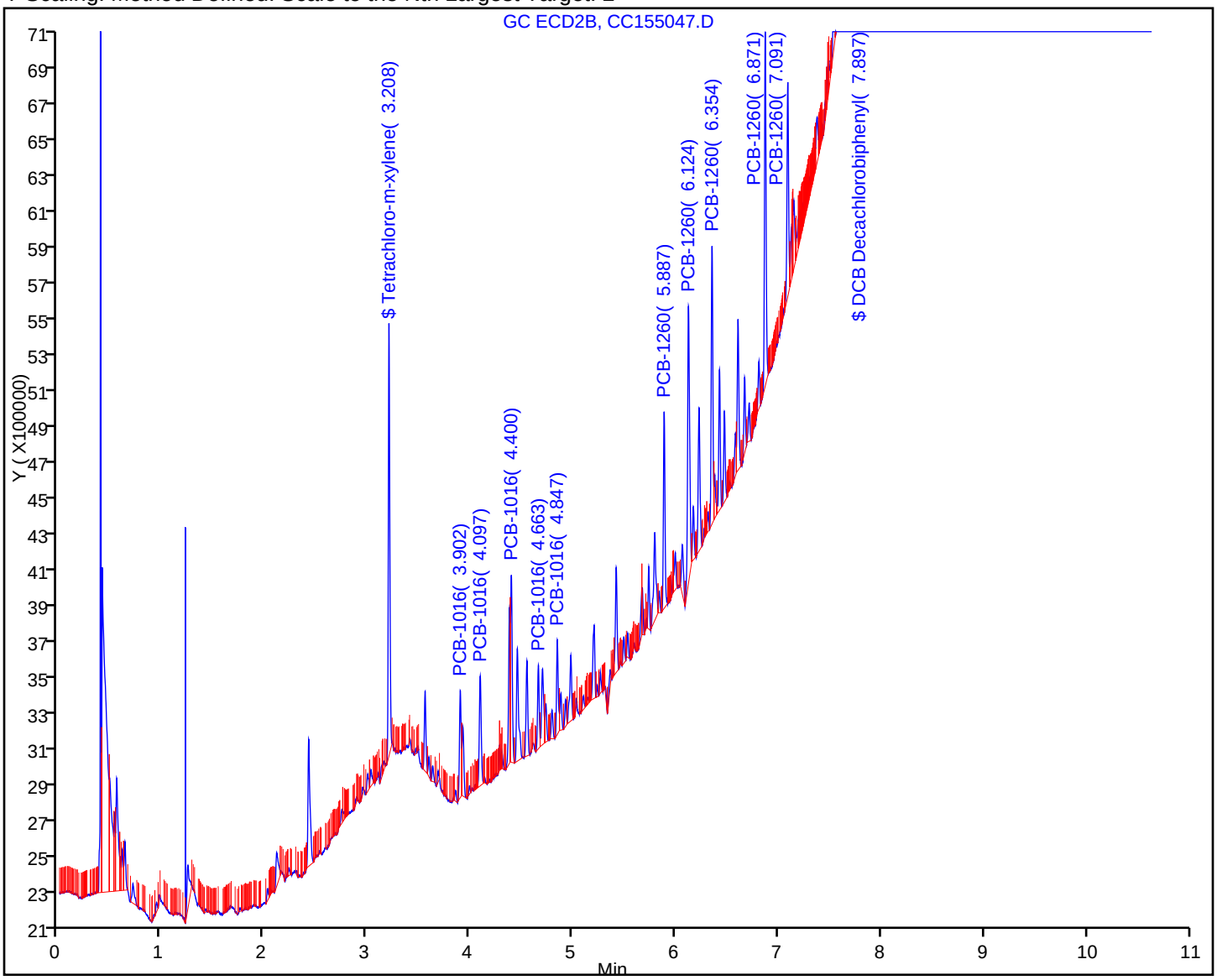
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:20:19 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155047.D

Injection Date:	03-Mar-2011 09:34:18	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	2
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

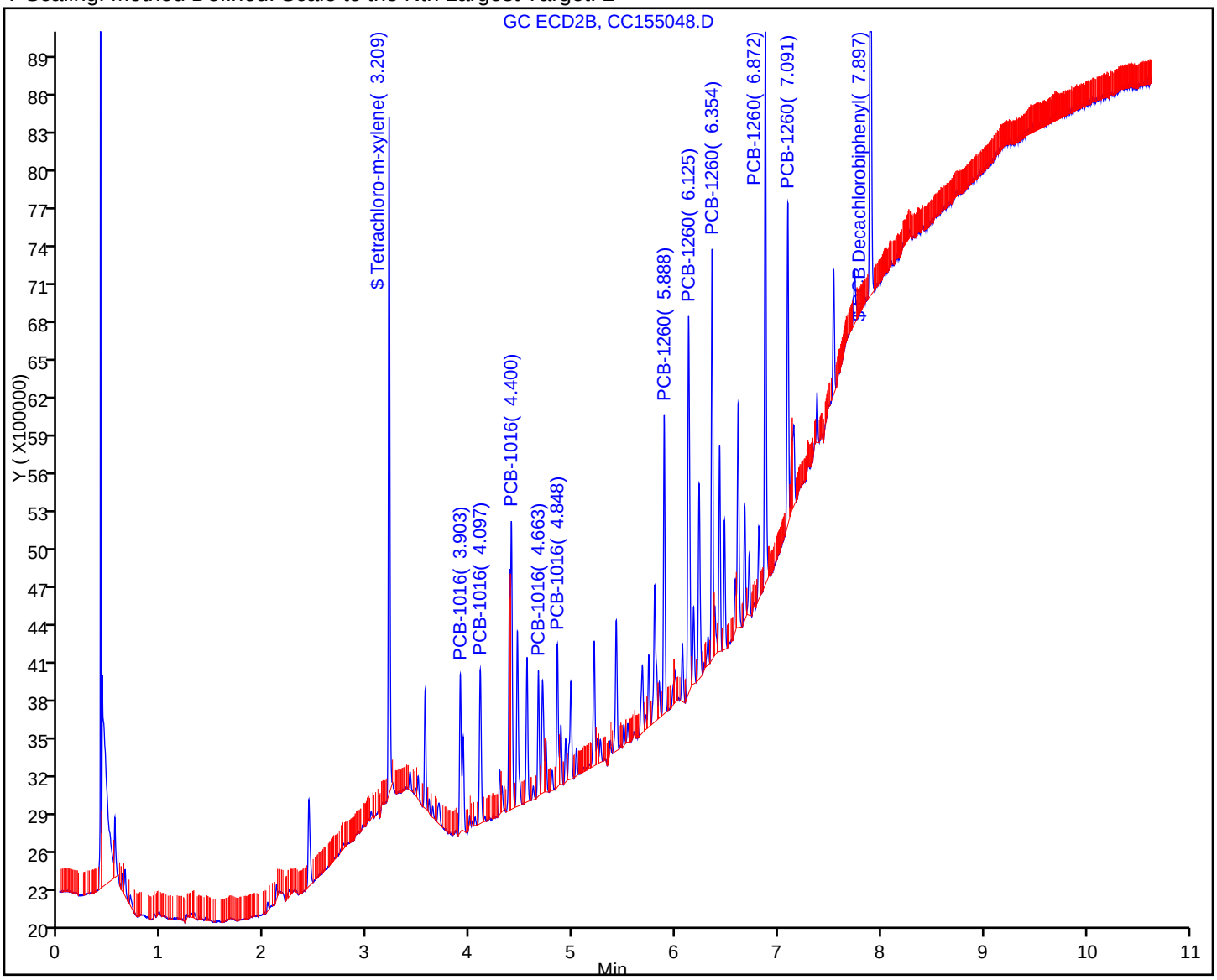
Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155048.D		
Lims ID:	ic std 1660 20	Client ID:	
Inject. Date:	03-Mar-2011 09:48:23	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	ic std 1660 20		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	3
Lims Batch ID:	81563	Lims Sample ID:	3
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:20:34	Calib Date:	03-Mar-2011 09:48:23
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155048.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:20:34

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	2089686	1.23			
2	2	3.209	3.208	0.001	5229259	2.49			
						RPD = 67.51			
$ 2 DCB Decachlorobiphenyl									
1	1	7.864	7.865	-0.001	1794432	1.63			
2	2	7.897	7.897	0.000	4517927	2.96			
						RPD = 57.77			
6 PCB-1016									
1	1	3.888	3.888	0.000	584984	18.3		100.0	
1	2	4.094	4.095	-0.001	564163	14.4	112.9- 172.9	96.4	
1	3	4.362	4.361	0.001	975524	13.2	238.5- 298.5	166.8	
1	4	4.607	4.607	0.000	572319	16.3	103.8- 163.8	97.8	
1	5	4.820	4.820	0.000	577282	14.8	109.0- 169.0	98.7	
			Average of Peak Amounts =			15.4			
2	6	3.903	3.902	0.001	1445136	28.9		100.0	
2	7	4.097	4.097	0.000	1538031	27.3	73.1- 133.1	106.4	
2	8	4.400	4.400	0.000	2651906	35.6	96.8- 156.8	183.5	
2	9	4.663	4.663	0.000	1043290	27.8	49.5- 109.5	72.2	
2	10	4.848	4.847	0.001	1274903	27.8	68.3- 128.3	88.2	
			Average of Peak Amounts =			29.5			
						RPD = 62.76			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.838	5.839	-0.001	1124750	15.7		100.0	
1	2	6.020	6.020	0.000	1345720	16.3	88.0- 148.0	119.6	
1	3	6.307	6.309	-0.002	1697528	23.6	50.2- 110.2	150.9	
1	4	6.787	6.788	-0.001	1925631	15.4	152.6- 212.6	171.2	
1	5	7.073	7.073	0.000	1542931	15.7	109.0- 169.0	137.2	
			Average of Peak Amounts =			17.4			
2	6	5.888	5.887	0.001	2486786	28.7		100.0	
2	7	6.125	6.124	0.001	3947232	28.4	124.6- 184.6	158.7	
2	8	6.354	6.354	0.000	3457944	38.9	42.5- 102.5	139.1	
2	9	6.872	6.871	0.001	4564699	41.6	50.9- 110.9	183.6	
2	10	7.091	7.091	0.000	2671277	28.0	86.3- 146.3	107.4	
			Average of Peak Amounts =			33.1			
						RPD = 62.43			
S 12 Polychlorinated biphenyls, Total									
1						32.8			
2						62.6			
						RPD = 62.58			

Report Date: 03-Mar-2011 13:20:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155048.D
Injection Date: 03-Mar-2011 09:48:23 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 3
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155049.D		
Lims ID:	ic std 1660 50	Client ID:	
Inject. Date:	03-Mar-2011 10:02:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	ic std 1660 50		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	4
Lims Batch ID:	81563	Lims Sample ID:	4
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:20:56	Calib Date:	03-Mar-2011 10:02:30
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155049.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:20:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	5225737	3.36			
2	2	3.210	3.208	0.002	13883113	6.15			
						RPD = 58.56			
$ 2 DCB Decachlorobiphenyl									
1	1	7.864	7.865	-0.001	4032424	3.41			
2	2	7.898	7.897	0.001	10686012	6.33			
						RPD = 59.87			
6 PCB-1016									
1	1	3.888	3.888	0.000	1396287	45.7		100.0	
1	2	4.095	4.095	0.000	1423803	39.6	112.9- 172.9	102.0	
1	3	4.362	4.361	0.001	2408778	35.7	238.5- 298.5	172.5	
1	4	4.608	4.607	0.001	1266546	34.1	103.8- 163.8	90.7	
1	5	4.820	4.820	0.000	1405358	39.2	109.0- 169.0	100.6	
			Average of Peak Amounts =			38.8			
2	6	3.905	3.902	0.003	3440630	63.3		100.0	
2	7	4.099	4.097	0.002	3473104	74.4	73.1- 133.1	100.9	
2	8	4.401	4.400	0.001	6628559	74.9	96.8- 156.8	192.7	
2	9	4.664	4.663	0.001	2571349	63.2	49.5- 109.5	74.7	
2	10	4.849	4.847	0.002	3121175	62.7	68.3- 128.3	90.7	
			Average of Peak Amounts =			67.7			
						RPD = 54.16			

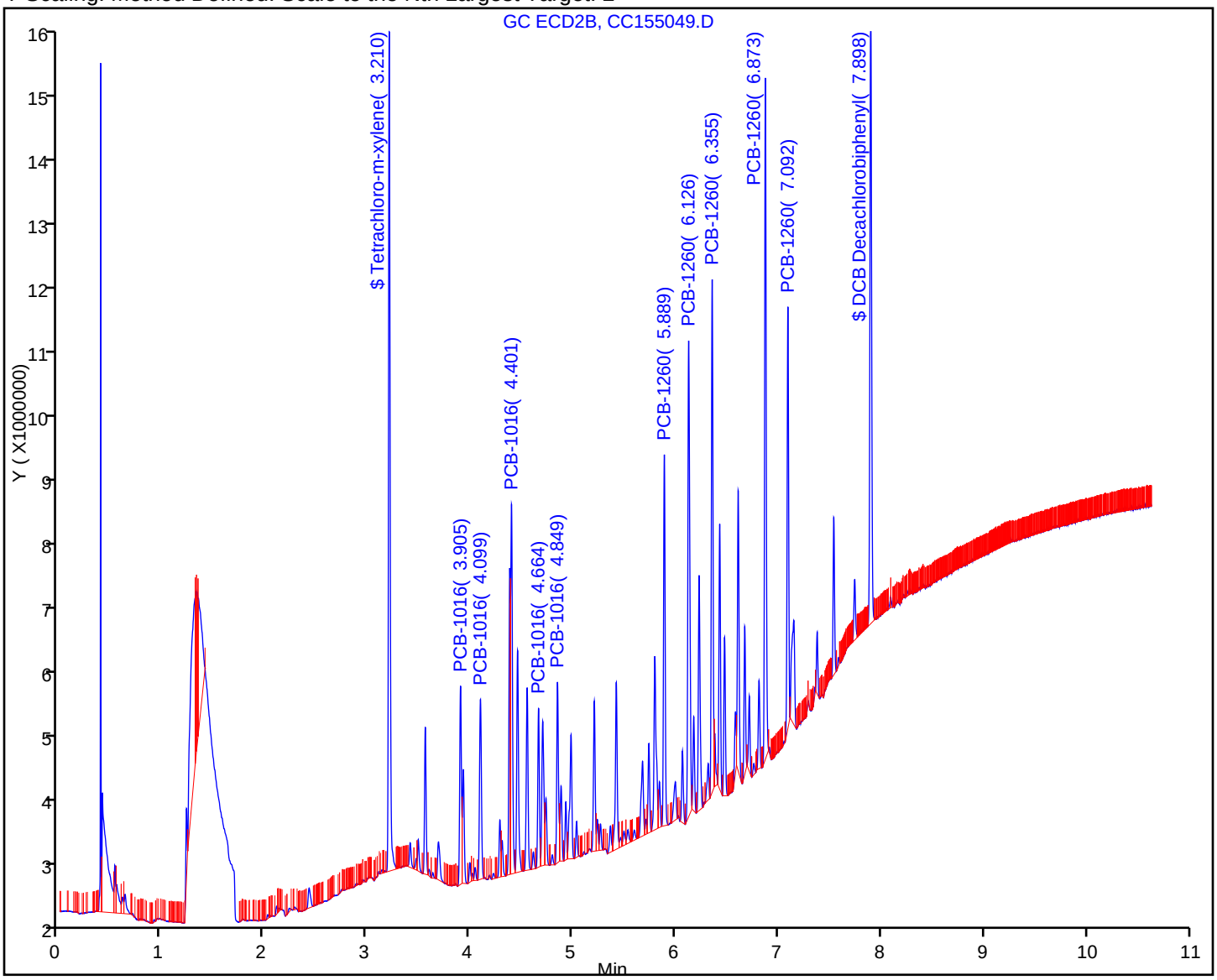
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	2722489	40.6		100.0	
1	2	6.019	6.020	-0.001	3197554	41.0	88.0- 148.0	117.4	
1	3	6.308	6.309	-0.001	4030842	53.5	50.2- 110.2	148.1	
1	4	6.788	6.788	0.000	4771966	40.3	152.6- 212.6	175.3	
1	5	7.073	7.073	0.000	3656596	39.3	109.0- 169.0	134.3	
			Average of Peak Amounts =			43.0			
2	6	5.889	5.887	0.002	6081863	63.6		100.0	
2	7	6.126	6.124	0.002	9466360	61.8	124.6- 184.6	155.6	
2	8	6.355	6.354	0.001	8483382	77.5	42.5- 102.5	139.5	
2	9	6.873	6.871	0.002	11012298	79.9	50.9- 110.9	181.1	
2	10	7.092	7.091	0.001	6462225	61.7	86.3- 146.3	106.3	
			Average of Peak Amounts =			68.9			
						RPD = 46.39			
S 12 Polychlorinated biphenyls, Total									
1						81.8			
2						136.6			
						RPD = 50.18			

Report Date: 03-Mar-2011 13:20:56 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155049.D

Injection Date:	03-Mar-2011 10:02:30	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	4
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

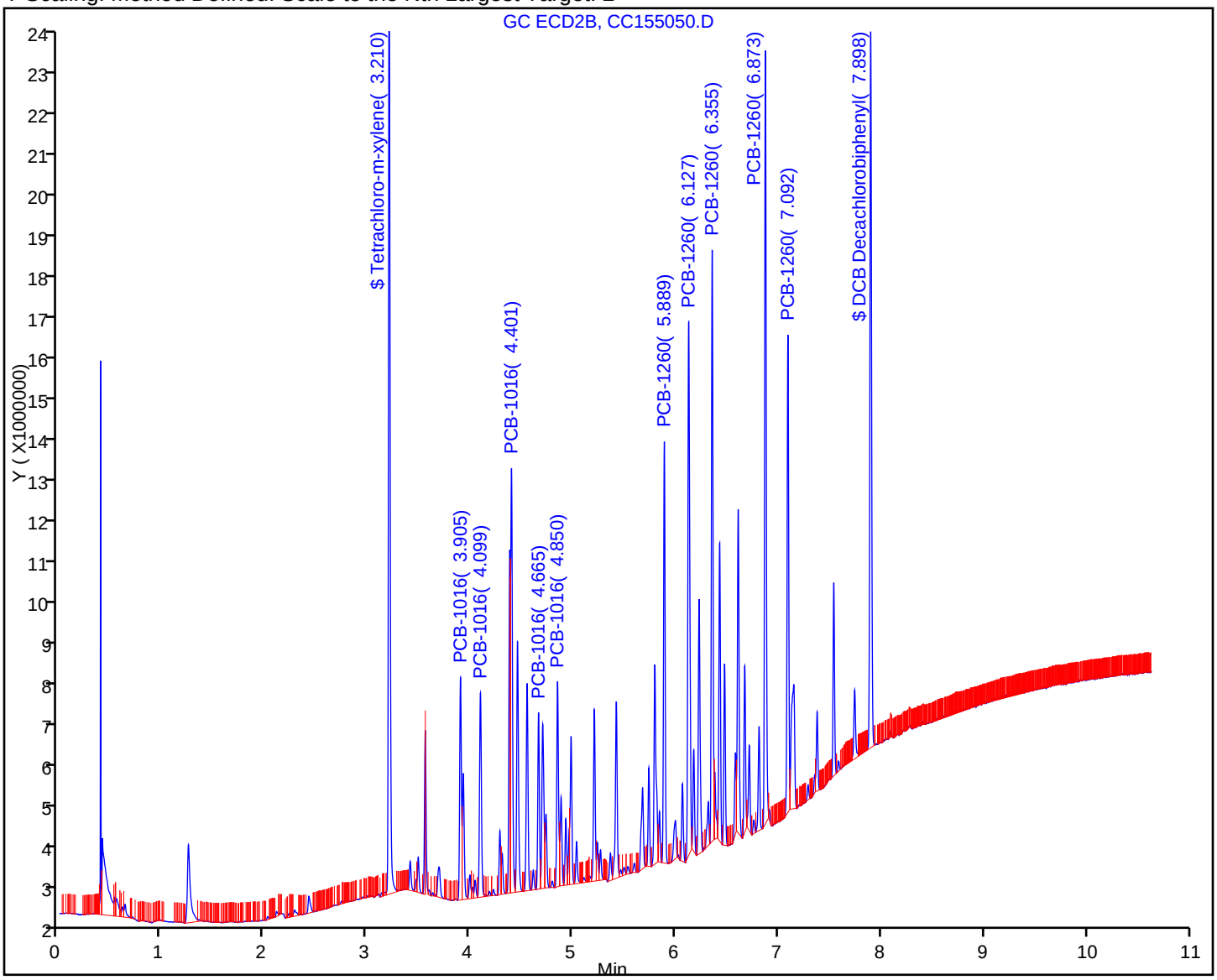
Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155050.D		
Lims ID:	ic std 1660 100	Client ID:	
Inject. Date:	03-Mar-2011 10:16:40	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	ic std 1660 100		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	5
Lims Batch ID:	81563	Lims Sample ID:	5
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:21:14	Calib Date:	03-Mar-2011 10:16:40
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155050.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:21:14

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	10022166	7.25			
2	2	3.210	3.210	0.000	26511051	11.1			
						RPD = 42.27			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	7508909	6.18			
2	2	7.898	7.898	0.000	19960109	11.0			
						RPD = 56.06			
6 PCB-1016									
1	1	3.889	3.889	0.000	2540653	84.8		100.0	
1	2	4.095	4.095	0.000	2608289	80.2	112.9- 172.9	102.7	
1	3	4.362	4.362	0.000	4570926	74.8	238.5- 298.5	179.9	
1	4	4.607	4.607	0.000	2263609	60.0	103.8- 163.8	89.1	
1	5	4.821	4.821	0.000	2602199	79.5	109.0- 169.0	102.4	
			Average of Peak Amounts =			75.9			
2	6	3.905	3.905	0.000	6308349	109.2		100.0	
2	7	4.099	4.099	0.000	6422737	145.7	73.1- 133.1	101.8	
2	8	4.401	4.401	0.000	12506998	123.9	96.8- 156.8	198.3	
2	9	4.665	4.665	0.000	4720477	109.4	49.5- 109.5	74.8	
2	10	4.850	4.850	0.000	5790315	109.4	68.3- 128.3	91.8	
			Average of Peak Amounts =			119.5			
						RPD = 44.69			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	4961312	79.6		100.0	
1	2	6.020	6.020	0.000	5849927	80.4	88.0- 148.0	117.9	
1	3	6.307	6.307	0.000	7446307	96.6	50.2- 110.2	150.1	
1	4	6.787	6.787	0.000	8948240	81.2	152.6- 212.6	180.4	
1	5	7.073	7.073	0.000	6806752	78.9	109.0- 169.0	137.2	
			Average of Peak Amounts =			83.3			
2	6	5.889	5.889	0.000	11122748	109.1		100.0	
2	7	6.127	6.127	0.000	17111206	104.6	124.6- 184.6	153.8	
2	8	6.355	6.355	0.000	15804057	123.5	42.5- 102.5	142.1	
2	9	6.873	6.873	0.000	20692183	126.6	50.9- 110.9	186.0	
2	10	7.092	7.092	0.000	12757956	112.6	86.3- 146.3	114.7	
			Average of Peak Amounts =			115.3			
						RPD = 32.15			
S 12 Polychlorinated biphenyls, Total									
1						159.2			
2						234.8			
						RPD = 38.37			

Report Date: 03-Mar-2011 13:21:15 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155050.D
Injection Date: 03-Mar-2011 10:16:40 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 5
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155051.D		
Lims ID:	ic std 1660 500	Client ID:	
Inject. Date:	03-Mar-2011 10:30:54	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	ic std 1660 500		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	6
Lims Batch ID:	81563	Lims Sample ID:	6
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:21:35	Calib Date:	03-Mar-2011 10:30:54
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155051.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:21:35

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	51950600	43.0			
2	2	3.210	3.210	0.000	131503798	52.6			
						RPD = 20.03			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	34542815	30.6			
2	2	7.898	7.898	0.000	94281773	49.1			
						RPD = 46.31			
6 PCB-1016									
1	1	3.889	3.889	0.000	11831067	419.5		100.0	
1	2	4.095	4.095	0.000	11917511	407.8	112.9- 172.9	100.7	
1	3	4.362	4.362	0.000	22899926	425.6	238.5- 298.5	193.6	
1	4	4.608	4.607	0.001	10185515	286.7	103.8- 163.8	86.1	
1	5	4.820	4.821	-0.001	12230308	411.8	109.0- 169.0	103.4	
			Average of Peak Amounts =			390.3			
2	6	3.905	3.905	0.000	27985661	460.8		100.0	
2	7	4.099	4.099	0.000	28333552	620.3	73.1- 133.1	101.2	
2	8	4.401	4.401	0.000	58747508	521.9	96.8- 156.8	209.9	
2	9	4.665	4.665	0.000	19876257	443.6	49.5- 109.5	71.0	
2	10	4.850	4.850	0.000	26107741	471.3	68.3- 128.3	93.3	
			Average of Peak Amounts =			503.6			
						RPD = 25.35			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.839	5.839	0.000	23520322	413.0		100.0	
1	2	6.020	6.020	0.000	26872237	404.8	88.0- 148.0	114.3	
1	3	6.308	6.307	0.001	34735563	445.2	50.2- 110.2	147.7	
1	4	6.788	6.787	0.001	43197197	433.4	152.6- 212.6	183.7	
1	5	7.072	7.073	-0.001	32238182	413.7	109.0- 169.0	137.1	
			Average of Peak Amounts =			422.0			
2	6	5.889	5.889	0.000	53068274	491.0		100.0	
2	7	6.126	6.127	-0.001	82150837	474.5	124.6- 184.6	154.8	
2	8	6.355	6.355	0.000	78210917	536.5	42.5- 102.5	147.4	
2	9	6.873	6.873	0.000	102561579	545.9	50.9- 110.9	193.3	
2	10	7.092	7.092	0.000	62354839	516.9	86.3- 146.3	117.5	
			Average of Peak Amounts =			513.0			
						RPD = 19.45			
S 12 Polychlorinated biphenyls, Total									
1						812.3			
2						1016.5			
						RPD = 22.34			

Report Date: 03-Mar-2011 13:21:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155051.D

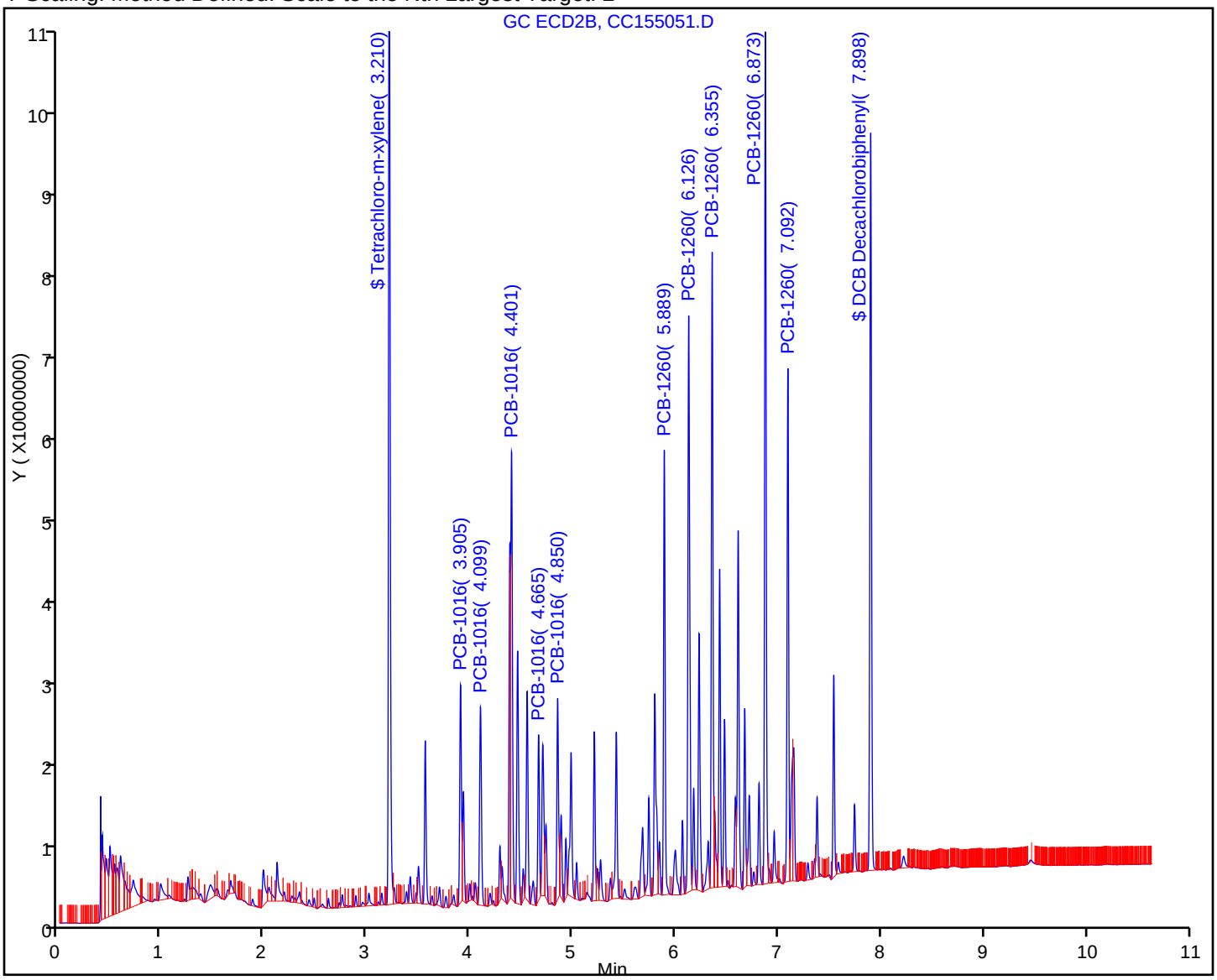
Injection Date: 03-Mar-2011 10:30:54 Limit Group: 8082 PCBs

Client ID: Instrument ID: TAC042

Lims Batch ID: 81563 Lims Sample ID: 6

Operator ID: mam Injection Vol: 1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155052.D		
Lims ID:	ic std 1660 1000	Client ID:	
Inject. Date:	03-Mar-2011 10:45:01	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	ic std 1660 1000		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	7
Lims Batch ID:	81563	Lims Sample ID:	7
Sublist:	chrom-8082_TAC042*sub1		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:25:18	Calib Date:	03-Mar-2011 10:45:01
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155052.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:25:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	108220747	104.9			
2	2	3.211	3.210	0.001	261866287	100.3			
						RPD = 4.53			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	71135663	101.0			
2	2	7.897	7.898	-0.001	193164860	94.9			
						RPD = 6.23			
6 PCB-1016									
1	1	3.889	3.889	0.000	22349291	857.0		100.0	
1	2	4.095	4.095	0.000	23858617	918.0	112.9- 172.9	106.8	
1	3	4.362	4.362	0.000	48543663	1036.0	238.5- 298.5	217.2	
1	4	4.607	4.607	0.000	19961739	988.7	103.8- 163.8	89.3	
1	5	4.820	4.821	-0.001	24811804	927.6	109.0- 169.0	111.0	
			Average of Peak Amounts =			945.5			
2	6	3.905	3.905	0.000	56169294	876.6		100.0	
2	7	4.099	4.099	0.000	57396100	999.0	73.1- 133.1	102.2	
2	8	4.401	4.401	0.000	126186742	1003.2	96.8- 156.8	224.7	
2	9	4.665	4.665	0.000	41816076	891.0	49.5- 109.5	74.4	
2	10	4.850	4.850	0.000	53708784	923.8	68.3- 128.3	95.6	
			Average of Peak Amounts =			938.7			
						RPD = 0.72			

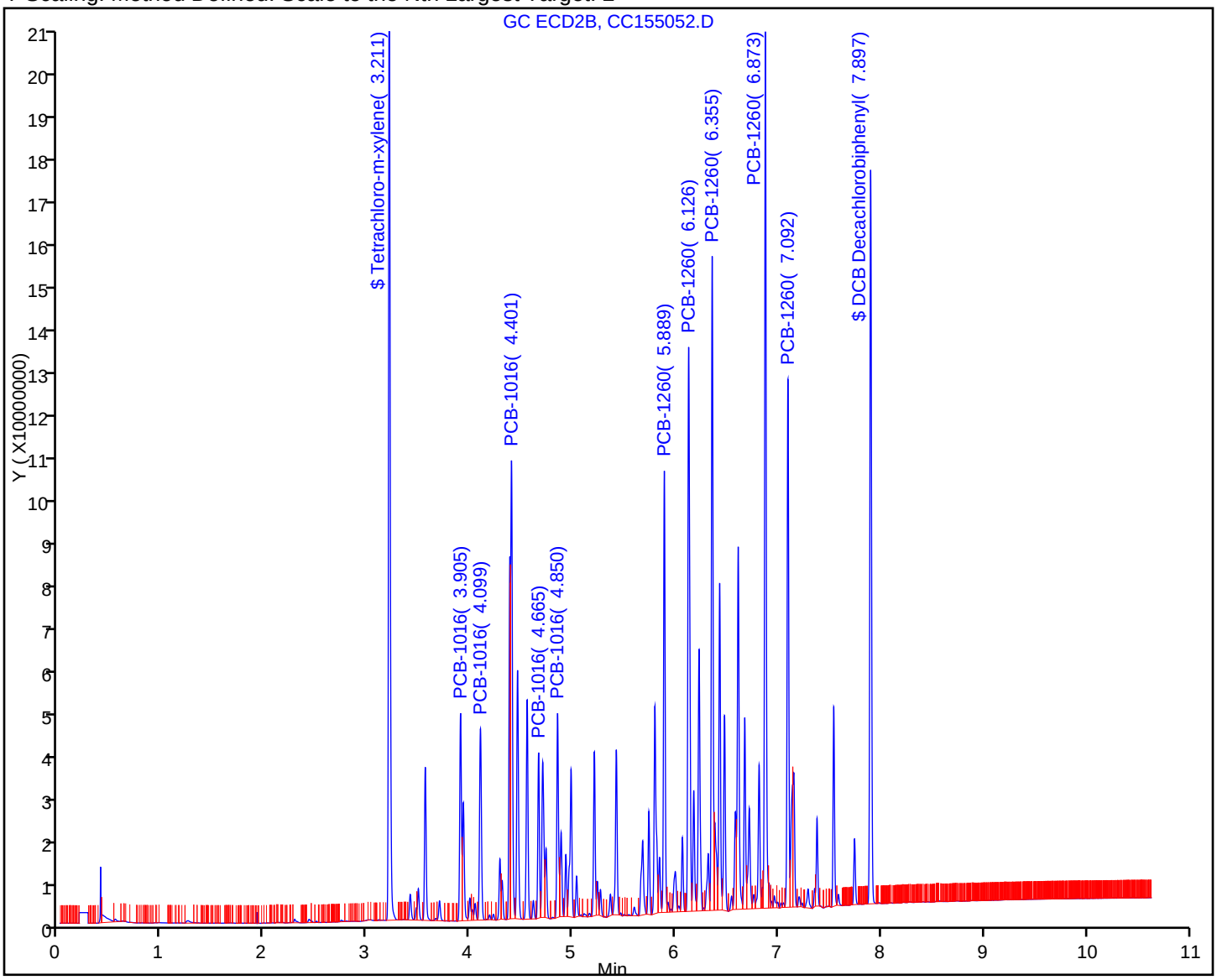
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.838	5.839	-0.001	49044991	945.8		100.0	
1	2	6.019	6.020	-0.001	57539516	1019.7	88.0- 148.0	117.3	
1	3	6.307	6.307	0.000	68523469	992.9	50.2- 110.2	139.7	
1	4	6.787	6.787	0.000	94446622	1035.4	152.6- 212.6	192.6	
1	5	7.072	7.073	-0.001	69507418	978.6	109.0- 169.0	141.7	
			Average of Peak Amounts =			994.5			
2	6	5.889	5.889	0.000	109876814	957.0		100.0	
2	7	6.126	6.127	-0.001	172082538	1015.3	124.6- 184.6	156.6	
2	8	6.355	6.355	0.000	169160554	1019.9	42.5- 102.5	154.0	
2	9	6.873	6.873	0.000	220384236	1025.2	50.9- 110.9	200.6	
2	10	7.092	7.092	0.000	133884644	1032.1	86.3- 146.3	121.8	
			Average of Peak Amounts =			1009.9			
						RPD = 1.54			
S 12 Polychlorinated biphenyls, Total									
1						1939.9			
2						1948.6			
						RPD = 0.45			

Report Date: 03-Mar-2011 13:25:18 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155052.D

Injection Date:	03-Mar-2011 10:45:01	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	7
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 11:13 Calibration End Date: 03/03/2011 12:23 Calibration ID: 7353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/9	CC155054.D
Level 2	IC 580-81563/10	CC155055.D
Level 3	IC 580-81563/11	CC155056.D
Level 4	IC 580-81563/12	CC155057.D
Level 5	IC 580-81563/13	CC155058.D
Level 6	IC 580-81563/14	CC155059.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	3.399	3.398	3.398	3.399	3.398	3.398					3.369 - 3.429	3.398
PCB-1221 Peak 2	3.483	3.483	3.483	3.484	3.483	3.483					3.454 - 3.514	3.483
PCB-1221 Peak 3	3.558	3.558	3.559	3.559	3.557	3.558					3.529 - 3.589	3.558
PCB-1254 Peak 1	5.179	5.179	5.179	5.179	5.180	5.179					5.149 - 5.209	5.179
PCB-1254 Peak 2	5.334	5.333	5.334	5.334	5.333	5.333					5.304 - 5.364	5.334
PCB-1254 Peak 3	5.710	5.711	5.711	5.710	5.711	5.710					5.680 - 5.740	5.711
PCB-1254 Peak 4	5.928	5.928	5.928	5.928	5.927	5.927					5.898 - 5.958	5.928
PCB-1254 Peak 5	6.308	6.307	6.308	6.307	6.307	6.307					6.277 - 6.337	6.307

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 11:13 Calibration End Date: 03/03/2011 12:23 Calibration ID: 7353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/9	CC155054.D
Level 2	IC 580-81563/10	CC155055.D
Level 3	IC 580-81563/11	CC155056.D
Level 4	IC 580-81563/12	CC155057.D
Level 5	IC 580-81563/13	CC155058.D
Level 6	IC 580-81563/14	CC155059.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	11359 11686	11997 10588	12120	11120	Ave		11478.2905				5.0		20.0			
PCB-1221 Peak 2	8905.3 7459.7	7199.2 6747.6	7560.2	7130.4	Lin1	17665.0698	6961.61820							0.9980		0.9900
PCB-1221 Peak 3	29893 26092	28310 24933	28346	27909	Ave		27580.5948				6.4		20.0			
PCB-1254 Peak 1	55626 48077	52597 48682	50580	48924	Ave		50747.4692				5.7		20.0			
PCB-1254 Peak 2	48182 38954	45561 39569	43795	41130	Ave		42865.2110				8.4		20.0			
PCB-1254 Peak 3	61318 59805	62835 61674	59162	59526	Ave		60719.9438				2.4		20.0			
PCB-1254 Peak 4	50615 43531	45982 45188	44897	44255	Ave		45744.5107				5.5		20.0			
PCB-1254 Peak 5	60685 48569	55384 50724	53233	49732	Ave		53054.3935				8.4		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 11:13 Calibration End Date: 03/03/2011 12:23 Calibration ID: 7353

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/9	CC155054.D
Level 2	IC 580-81563/10	CC155055.D
Level 3	IC 580-81563/11	CC155056.D
Level 4	IC 580-81563/12	CC155057.D
Level 5	IC 580-81563/13	CC155058.D
Level 6	IC 580-81563/14	CC155059.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	113587 10587943	239930	606005	1112027	5843115	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 2	Lin1	89053 6747577	143984	378011	713044	3729840	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 3	Ave	298931 24932501	566205	1417304	2790920	13046219	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 1	Ave	556260 48681609	1051940	2528986	4892362	24038433	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 2	Ave	481824 39568718	911212	2189745	4113028	19477184	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 3	Ave	613175 61673827	1256700	2958120	5952591	29902513	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 4	Ave	506153 45187584	919632	2244828	4425492	21765550	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 5	Ave	606845 50723893	1107678	2661636	4973241	24284469	10.0 1000	20.0	50.0	100	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155054.D		
Lims ID:	ic std 2154 10	Client ID:	
Inject. Date:	03-Mar-2011 11:13:11	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	ic std 2154 10		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	9
Lims Batch ID:	81563	Lims Sample ID:	9
Sublist:	chrom-8082_TAC042*sub4		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:31:04	Calib Date:	03-Mar-2011 11:55:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:31:04

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.399	3.399	0.000	113587	10.2		100.0	
1	2	3.483	3.484	-0.001	89053	10.9	32.1- 92.1	78.4	
1	3	3.558	3.559	-0.001	298931	9.04	203.6- 263.6	263.2	
			Average of Peak Amounts =			10.1			
2	4	3.415	3.417	-0.002	369114	15.2		100.0	
2	5	3.492	3.494	-0.002	203141	13.7	30.5- 90.5	55.0	
2	6	3.560	3.562	-0.002	787425	15.4	205.1- 265.1	213.3	
			Average of Peak Amounts =			14.7			
						RPD = 37.73			
8 PCB-1254									M
1	1	5.179	5.179	0.000	556260	9.28		100.0	
1	2	5.334	5.334	0.000	481824	9.80	52.1- 112.1	86.6	
1	3	5.710	5.710	0.000	613175	12.2	49.5- 109.5	110.2	
1	4	5.928	5.928	0.000	506153	12.2	46.8- 106.8	91.0	
1	5	6.308	6.307	0.001	606845	8.63	126.5- 186.5	109.1	
			Average of Peak Amounts =			10.4			
2	6	5.207	5.209	-0.002	1019719	16.0		100.0	
2	7	5.421	5.421	0.000	1636382	16.7	146.5- 206.5	160.5	M
2	8	5.738	5.738	0.000	1557882	23.6	36.8- 96.8	152.8	
2	9	5.997	5.997	0.000	1280053	16.2	102.9- 162.9	125.5	
2	10	6.355	6.355	0.000	1377496	16.5	121.8- 181.8	135.1	
			Average of Peak Amounts =			17.8			
						RPD = 52.33			
S 12 Polychlorinated biphenyls, Total									
1						20.5			
2						32.5			
						RPD = 45.50			

QC Flag Legend

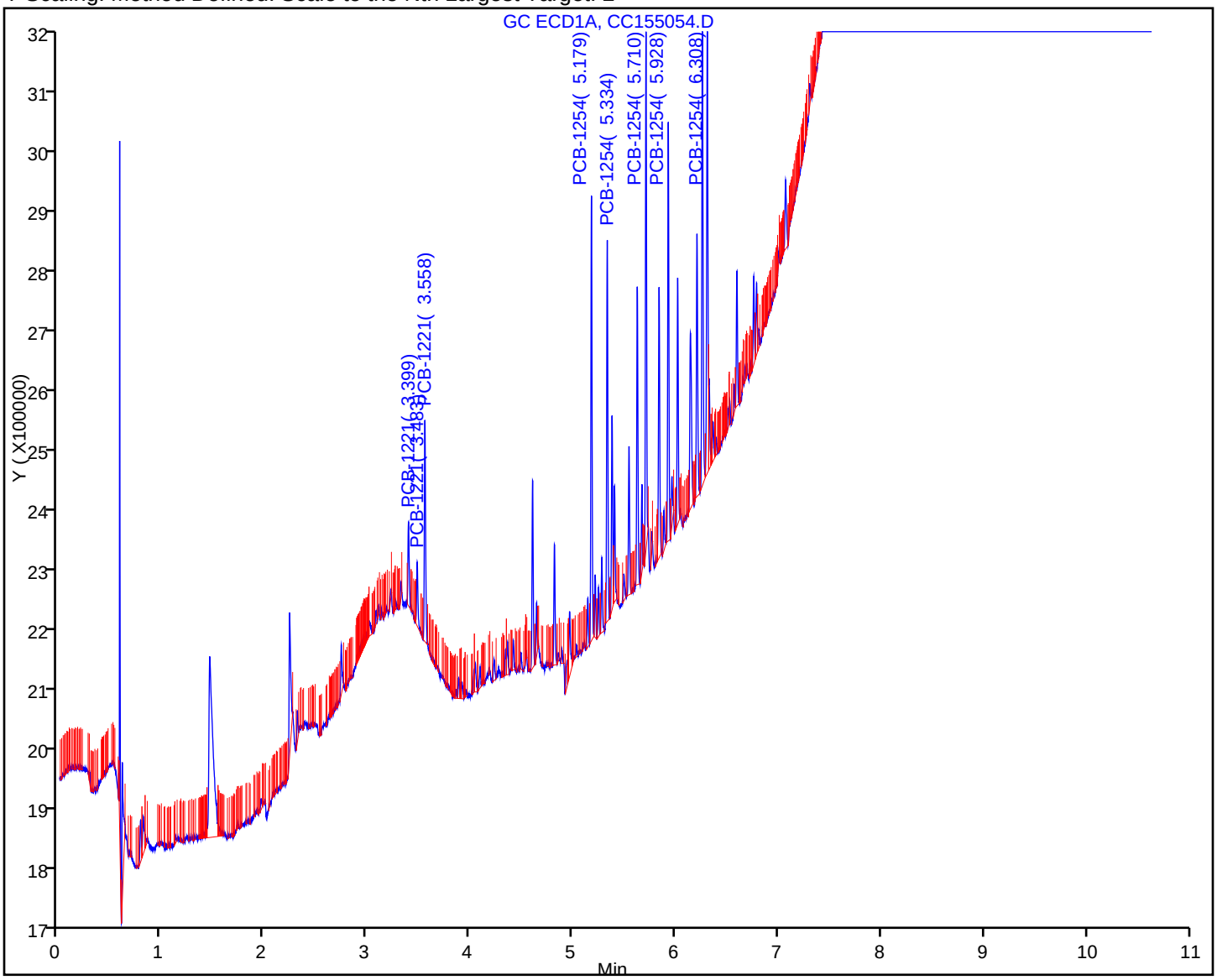
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:31:04 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155054.D

Injection Date:	03-Mar-2011 11:13:11	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	9
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155055.D		
Lims ID:	ic std 2154 20	Client ID:	
Inject. Date:	03-Mar-2011 11:27:16	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	ic std 2154 20		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	10
Lims Batch ID:	81563	Lims Sample ID:	10
Sublist:	chrom-8082_TAC042*sub4		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:31:28	Calib Date:	03-Mar-2011 11:55:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:31:28

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	239930	19.3		100.0	
1	2	3.483	3.484	-0.001	143984	19.0	32.1- 92.1	60.0	
1	3	3.558	3.559	-0.001	566205	17.9	203.6- 263.6	236.0	
			Average of Peak Amounts =			18.7			
2	4	3.416	3.417	-0.001	642215	24.6		100.0	
2	5	3.493	3.494	-0.001	377829	24.5	30.5- 90.5	58.8	
2	6	3.561	3.562	-0.001	1484620	26.2	205.1- 265.1	231.2	
			Average of Peak Amounts =			25.1			
						RPD = 29.11			
8 PCB-1254									M
1	1	5.179	5.179	0.000	1051940	18.4		100.0	
1	2	5.333	5.334	-0.001	911212	18.9	52.1- 112.1	86.6	
1	3	5.711	5.710	0.001	1256700	23.6	49.5- 109.5	119.5	
1	4	5.928	5.928	0.000	919632	21.5	46.8- 106.8	87.4	
1	5	6.307	6.307	0.000	1107678	16.6	126.5- 186.5	105.3	
			Average of Peak Amounts =			19.8			
2	6	5.207	5.209	-0.002	1842687	26.2		100.0	
2	7	5.421	5.421	0.000	2431983	23.3	146.5- 206.5	132.0	
2	8	5.737	5.738	-0.001	2878450	33.6	36.8- 96.8	156.2	
2	9	5.997	5.997	0.000	2386204	27.1	102.9- 162.9	129.5	
2	10	6.355	6.355	0.000	2411264	26.1	121.8- 181.8	130.9	M
			Average of Peak Amounts =			27.2			
						RPD = 31.67			
S 12 Polychlorinated biphenyls, Total									
1						38.5			
2						52.4			
						RPD = 30.44			

QC Flag Legend

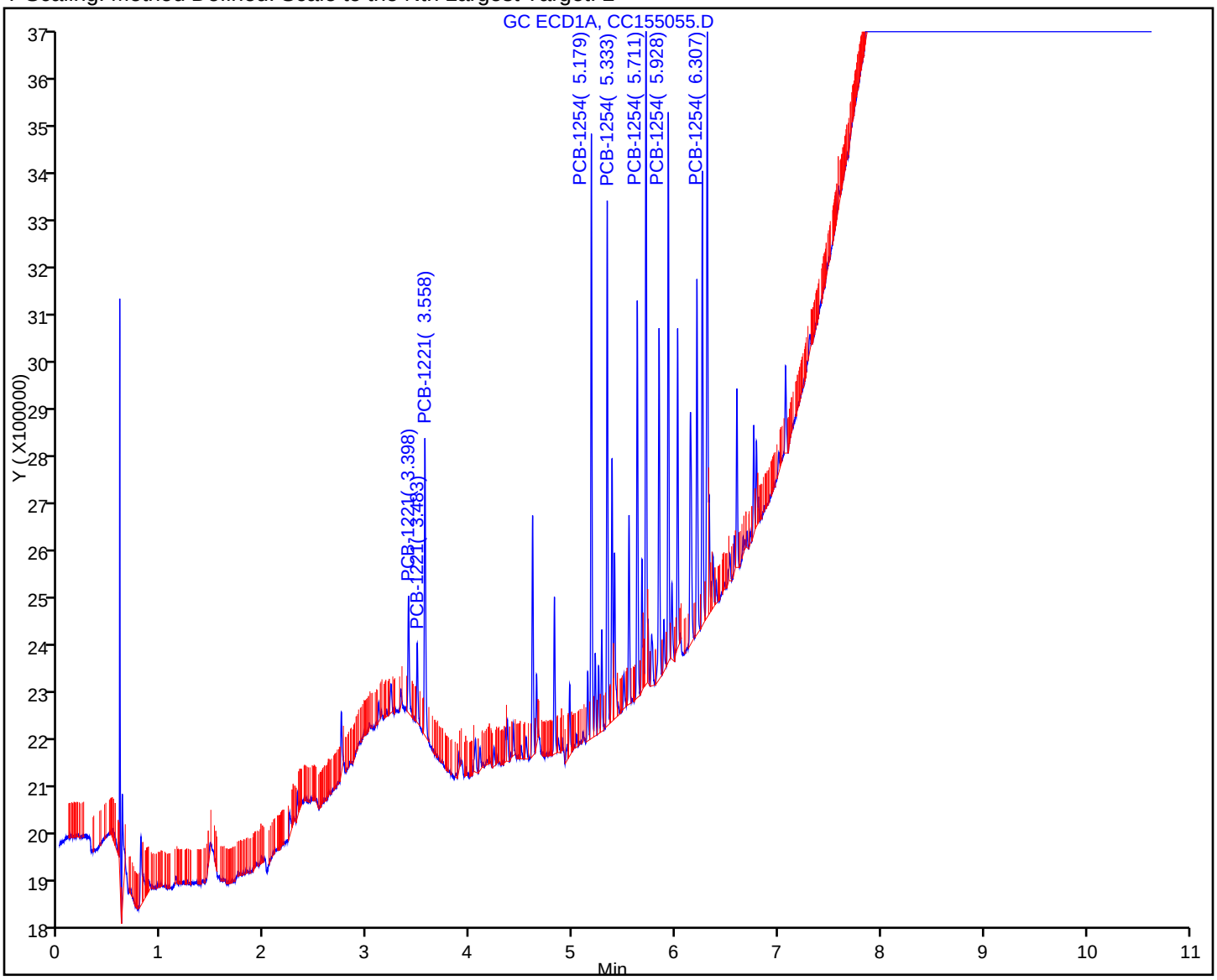
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:31:28 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155055.D

Injection Date:	03-Mar-2011 11:27:16	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	10
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155056.D
Lims ID: ic std 2154 50 Client ID:
Inject. Date: 03-Mar-2011 11:41:28 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 9
Sample ID: ic std 2154 50
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 11
Lims Batch ID: 81563 Lims Sample ID: 11
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:31:42 Calib Date: 03-Mar-2011 11:55:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:31:42

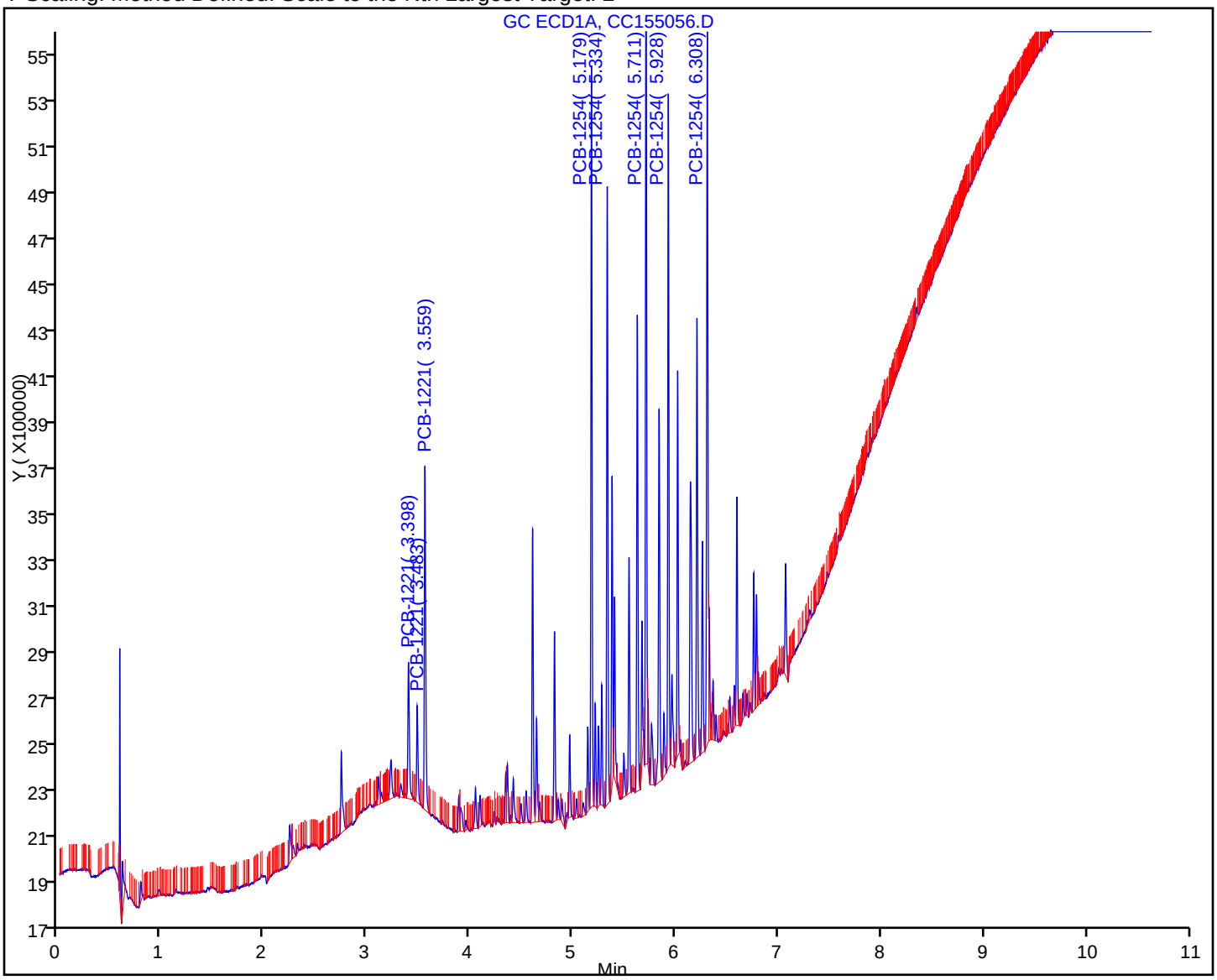
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	606005	41.0		100.0	
1	2	3.483	3.484	-0.001	378011	41.9	32.1- 92.1	62.4	
1	3	3.559	3.559	0.000	1417304	39.6	203.6- 263.6	233.9	
			Average of Peak Amounts =			40.8			
2	4	3.415	3.417	-0.002	1525049	55.8		100.0	
2	5	3.493	3.494	-0.001	962234	59.0	30.5- 90.5	63.1	
2	6	3.560	3.562	-0.002	3509642	57.0	205.1- 265.1	230.1	
			Average of Peak Amounts =			57.3			
						RPD = 33.59			
8 PCB-1254									
1	1	5.179	5.179	0.000	2528986	45.8		100.0	
1	2	5.334	5.334	0.000	2189745	46.3	52.1- 112.1	86.6	
1	3	5.711	5.710	0.001	2958120	53.0	49.5- 109.5	117.0	
1	4	5.928	5.928	0.000	2244828	51.6	46.8- 106.8	88.8	
1	5	6.308	6.307	0.001	2661636	43.0	126.5- 186.5	105.2	
			Average of Peak Amounts =			47.9			
2	6	5.208	5.209	-0.001	4477859	58.2		100.0	
2	7	5.421	5.421	0.000	5803244	52.1	146.5- 206.5	129.6	
2	8	5.738	5.738	0.000	7158819	68.3	36.8- 96.8	159.9	
2	9	5.997	5.997	0.000	5523765	56.6	102.9- 162.9	123.4	
2	10	6.355	6.355	0.000	6002283	58.6	121.8- 181.8	134.0	
			Average of Peak Amounts =			58.8			
						RPD = 20.28			
S 12 Polychlorinated biphenyls, Total									
1						88.8			
2						116.1			
						RPD = 26.65			

Report Date: 03-Mar-2011 13:31:42 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155056.D

Injection Date:	03-Mar-2011 11:41:28	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	11
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D
Lims ID: ic std 2154 100 Client ID:
Inject. Date: 03-Mar-2011 11:55:37 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 10
Sample ID: ic std 2154 100
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 12
Lims Batch ID: 81563 Lims Sample ID: 12
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:32:11 Calib Date: 03-Mar-2011 11:55:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:32:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	1	3.399	3.399	0.000	1112027	68.8		100.0	
1	2	3.484	3.484	0.000	713044	68.6	32.1- 92.1	64.1	M
1	3	3.559	3.559	0.000	2790920	70.9	203.6- 263.6	251.0	
			Average of Peak Amounts =			69.4			
2	4	3.417	3.417	0.000	2798462	102.5		100.0	
2	5	3.494	3.494	0.000	1736878	106.6	30.5- 90.5	62.1	
2	6	3.562	3.562	0.000	6816996	110.7	205.1- 265.1	243.6	
			Average of Peak Amounts =			106.6			
						RPD = 42.24			
8 PCB-1254									M
1	1	5.179	5.179	0.000	4892362	88.6		100.0	
1	2	5.334	5.334	0.000	4113028	87.0	52.1- 112.1	84.1	
1	3	5.710	5.710	0.000	5952591	106.7	49.5- 109.5	121.7	
1	4	5.928	5.928	0.000	4425492	101.7	46.8- 106.8	90.5	
1	5	6.307	6.307	0.000	4973241	80.3	126.5- 186.5	101.7	
			Average of Peak Amounts =			92.9			
2	6	5.209	5.209	0.000	7796608	101.4		100.0	
2	7	5.421	5.421	0.000	10534571	94.5	146.5- 206.5	135.1	
2	8	5.738	5.738	0.000	13258692	126.5	36.8- 96.8	170.1	
2	9	5.997	5.997	0.000	10237788	104.8	102.9- 162.9	131.3	
2	10	6.355	6.355	0.000	11448281	109.5	121.8- 181.8	146.8	M
			Average of Peak Amounts =			107.4			
						RPD = 14.47			
S 12 Polychlorinated biphenyls, Total									
1						162.3			
2						213.9			
						RPD = 27.46			

QC Flag Legend

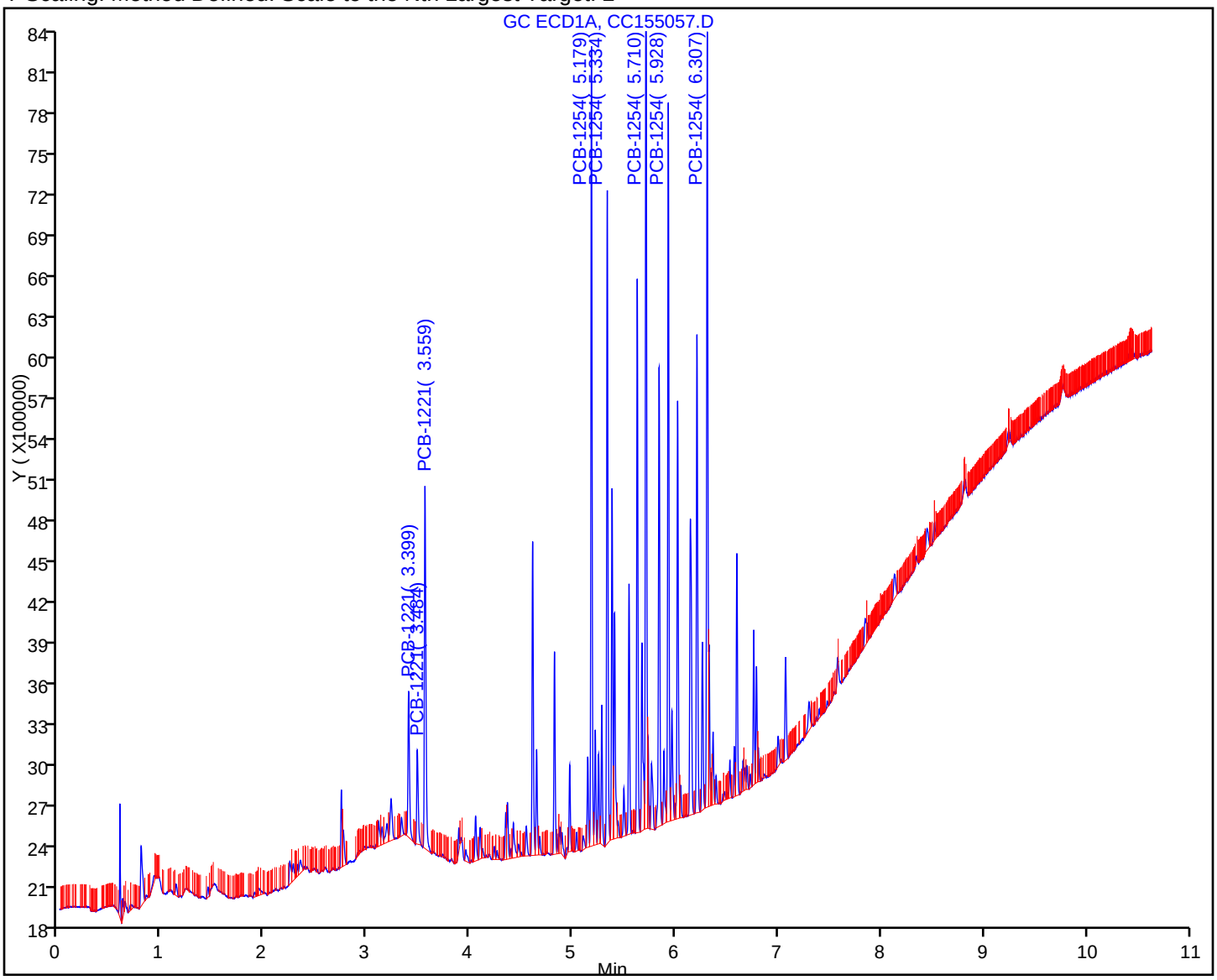
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:32:11 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D

Injection Date:	03-Mar-2011 11:55:37	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	12
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155058.D
Lims ID: ic std 2154 500 Client ID:
Inject. Date: 03-Mar-2011 12:09:46 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 11
Sample ID: ic std 2154 500
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 13
Lims Batch ID: 81563 Lims Sample ID: 13
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:32:25 Calib Date: 03-Mar-2011 12:09:46
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155058.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:32:25

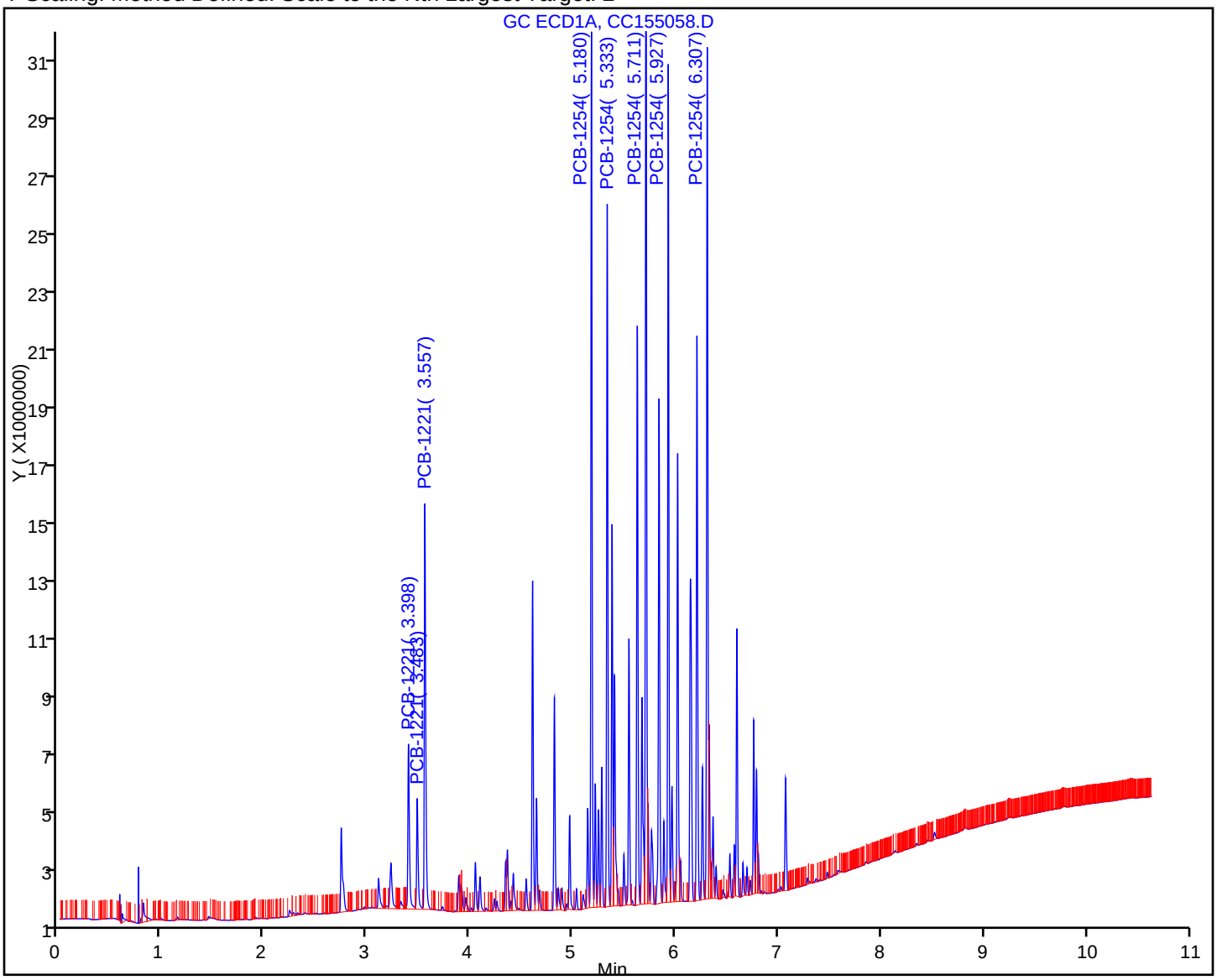
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	5843115	458.8		100.0	
1	2	3.483	3.484	-0.001	3729840	375.8	32.1- 92.1	63.8	
1	3	3.557	3.559	-0.002	13046219	424.7	203.6- 263.6	223.3	
			Average of Peak Amounts =			419.8			
2	4	3.417	3.417	0.000	13549353	471.6		100.0	
2	5	3.493	3.494	-0.001	8524789	493.8	30.5- 90.5	62.9	
2	6	3.561	3.562	-0.001	32225555	490.4	205.1- 265.1	237.8	
			Average of Peak Amounts =			485.2			
						RPD = 14.46			
8 PCB-1254									
1	1	5.180	5.179	0.001	24038433	455.9		100.0	
1	2	5.333	5.334	-0.001	19477184	432.8	52.1- 112.1	81.0	
1	3	5.711	5.710	0.001	29902513	514.4	49.5- 109.5	124.4	
1	4	5.927	5.928	-0.001	21765550	488.5	46.8- 106.8	90.5	
1	5	6.307	6.307	0.000	24284469	423.0	126.5- 186.5	101.0	
			Average of Peak Amounts =			462.9			
2	6	5.207	5.209	-0.002	38330841	472.7		100.0	
2	7	5.422	5.421	0.001	61525297	519.9	146.5- 206.5	160.5	
2	8	5.738	5.738	0.000	65950103	541.3	36.8- 96.8	172.1	
2	9	5.997	5.997	0.000	51362851	494.5	102.9- 162.9	134.0	
2	10	6.355	6.355	0.000	56156613	501.0	121.8- 181.8	146.5	
			Average of Peak Amounts =			505.9			
						RPD = 8.87			
S 12 Polychlorinated biphenyls, Total									
1						882.7			
2						991.1			
						RPD = 11.57			

Report Date: 03-Mar-2011 13:32:25 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155058.D

Injection Date:	03-Mar-2011 12:09:46	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	13
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155059.D
Lims ID: ic std 2154 1000 Client ID:
Inject. Date: 03-Mar-2011 12:23:52 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 12
Sample ID: ic std 2154 1000
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 14
Lims Batch ID: 81563 Lims Sample ID: 14
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:33:49 Calib Date: 03-Mar-2011 12:23:52
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155059.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:33:48

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	10587943	922.4		100.0	
1	2	3.483	3.484	-0.001	6747577	966.7	32.1- 92.1	63.7	
1	3	3.558	3.559	-0.001	24932501	904.0	203.6- 263.6	235.5	
			Average of Peak Amounts =			931.0			
2	4	3.416	3.417	-0.001	25966431	862.8		100.0	
2	5	3.493	3.494	-0.001	16309738	896.3	30.5- 90.5	62.8	
2	6	3.561	3.562	-0.001	61185071	880.4	205.1- 265.1	235.6	
			Average of Peak Amounts =			879.8			
						RPD = 5.65			
8 PCB-1254									M
1	1	5.179	5.179	0.000	48681609	959.3		100.0	
1	2	5.333	5.334	-0.001	39568718	923.1	52.1- 112.1	81.3	
1	3	5.710	5.710	0.000	61673827	1015.7	49.5- 109.5	126.7	
1	4	5.927	5.928	-0.001	45187584	987.8	46.8- 106.8	92.8	
1	5	6.307	6.307	0.000	50723893	956.1	126.5- 186.5	104.2	
			Average of Peak Amounts =			968.4			
2	6	5.207	5.209	-0.002	80536872	931.4		100.0	
2	7	5.421	5.421	0.000	131362686	1035.6	146.5- 206.5	163.1	
2	8	5.738	5.738	0.000	137400413	975.9	36.8- 96.8	170.6	
2	9	5.997	5.997	0.000	106943230	957.9	102.9- 162.9	132.8	
2	10	6.356	6.356	0.000	118455194	982.2	121.8- 181.8	147.1	M
			Average of Peak Amounts =			976.6			
						RPD = 0.84			
S 12 Polychlorinated biphenyls, Total									
1						1899.4			
2						1856.4			
						RPD = 2.29			

QC Flag Legend

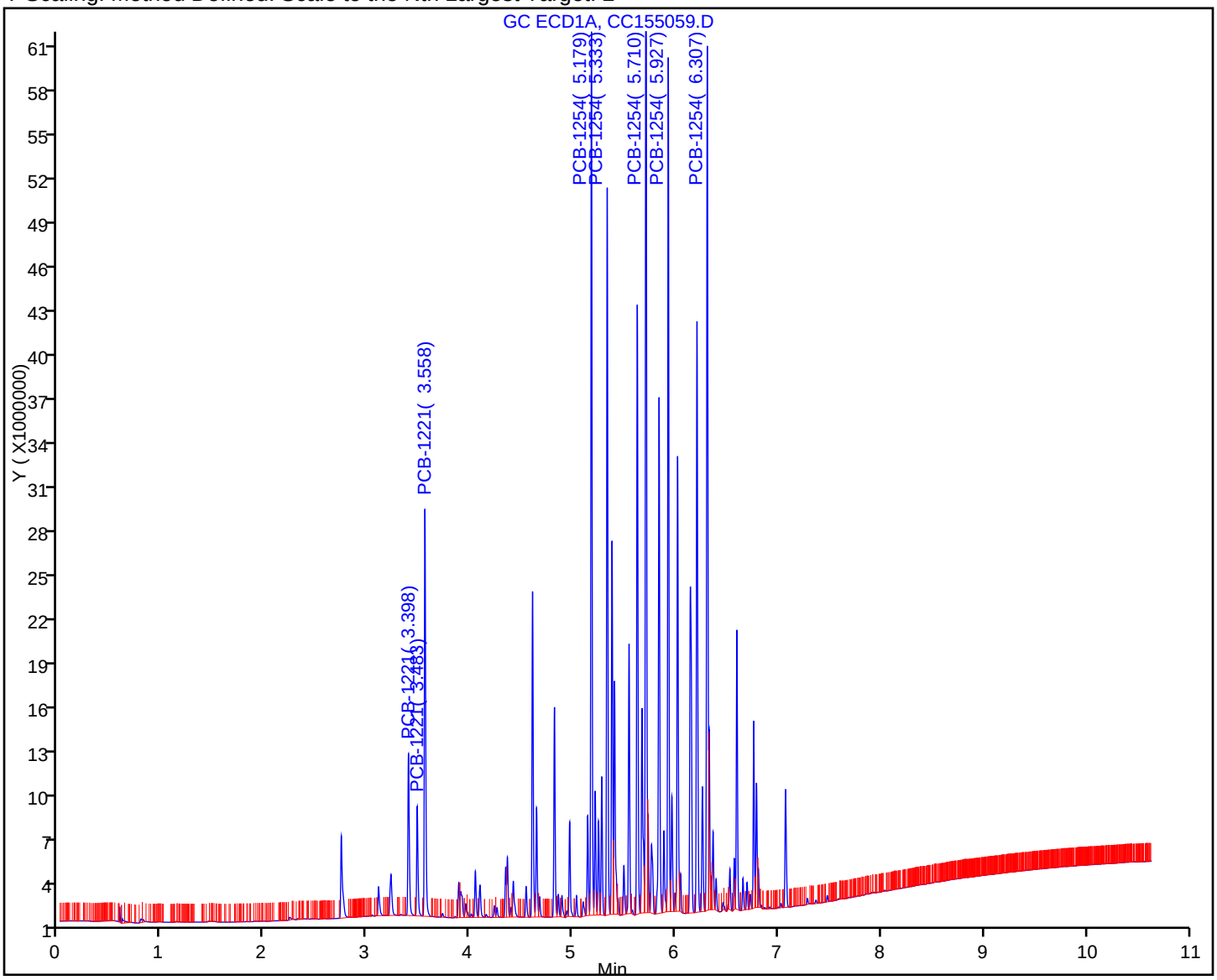
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:33:49 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155059.D

Injection Date:	03-Mar-2011 12:23:52	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	14
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 11:13 Calibration End Date: 03/03/2011 12:23 Calibration ID: 7354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/9	CC155054.D
Level 2	IC 580-81563/10	CC155055.D
Level 3	IC 580-81563/11	CC155056.D
Level 4	IC 580-81563/12	CC155057.D
Level 5	IC 580-81563/13	CC155058.D
Level 6	IC 580-81563/14	CC155059.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1221 Peak 1	3.415	3.416	3.415	3.417	3.417	3.416					3.387 - 3.447	3.416
PCB-1221 Peak 2	3.492	3.493	3.493	3.494	3.493	3.493					3.464 - 3.524	3.493
PCB-1221 Peak 3	3.560	3.561	3.560	3.562	3.561	3.561					3.532 - 3.592	3.561
PCB-1254 Peak 1	5.207	5.207	5.208	5.209	5.207	5.207					5.179 - 5.239	5.208
PCB-1254 Peak 2	5.421	5.421	5.421	5.421	5.422	5.421					5.391 - 5.451	5.421
PCB-1254 Peak 3	5.738	5.737	5.738	5.738	5.738	5.738					5.708 - 5.768	5.738
PCB-1254 Peak 4	5.997	5.997	5.997	5.997	5.997	5.997					5.967 - 6.027	5.997
PCB-1254 Peak 5	6.355	6.355	6.355	6.355	6.355	6.356					6.326 - 6.386	6.355

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 11:13 Calibration End Date: 03/03/2011 12:23 Calibration ID: 7354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/9	CC155054.D
Level 2	IC 580-81563/10	CC155055.D
Level 3	IC 580-81563/11	CC155056.D
Level 4	IC 580-81563/12	CC155057.D
Level 5	IC 580-81563/13	CC155058.D
Level 6	IC 580-81563/14	CC155059.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1221 Peak 1	36911 27099	32111 25966	30501	27985	Ave		30095.4812				13.0		20.0			
PCB-1221 Peak 2	20314 17050	18891 16310	19245	17369	Ave		18196.3877				8.4		20.0			
PCB-1221 Peak 3	78743 64451	74231 61185	70193	68170	Ave		69495.4135				9.2		20.0			
PCB-1254 Peak 1	101972 76662	92134 80537	89557	77966	Ave		86471.3440				11.0		20.0			
PCB-1254 Peak 2	163638 123051	121599 131363	116065	105346	Ave		126843.537				16.0		20.0			
PCB-1254 Peak 3	155788 131900	143923 137400	143176	132587	Ave		140795.770				6.3		20.0			
PCB-1254 Peak 4	128005 102726	119310 106943	110475	102378	Ave		111639.602				9.1		20.0			
PCB-1254 Peak 5	137750 112313	120563 118455	120046	114483	Ave		120601.615				7.5		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 11:13 Calibration End Date: 03/03/2011 12:23 Calibration ID: 7354

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/9	CC155054.D
Level 2	IC 580-81563/10	CC155055.D
Level 3	IC 580-81563/11	CC155056.D
Level 4	IC 580-81563/12	CC155057.D
Level 5	IC 580-81563/13	CC155058.D
Level 6	IC 580-81563/14	CC155059.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Ave	369114 25966431	642215	1525049	2798462	13549353	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 2	Ave	203141 16309738	377829	962234	1736878	8524789	10.0 1000	20.0	50.0	100	500
PCB-1221 Peak 3	Ave	787425 61185071	1484620	3509642	6816996	32225555	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 1	Ave	1019719 80536872	1842687	4477859	7796608	38330841	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 2	Ave	1636382 131362686	2431983	5803244	10534571	61525297	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 3	Ave	1557882 137400413	2878450	7158819	13258692	65950103	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 4	Ave	1280053 106943230	2386204	5523765	10237788	51362851	10.0 1000	20.0	50.0	100	500
PCB-1254 Peak 5	Ave	1377496 118455194	2411264	6002283	11448281	56156613	10.0 1000	20.0	50.0	100	500

Curve Type Legend:
Ave = Average

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155054.D		
Lims ID:	ic std 2154 10	Client ID:	
Inject. Date:	03-Mar-2011 11:13:11	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	ic std 2154 10		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	9
Lims Batch ID:	81563	Lims Sample ID:	9
Sublist:	chrom-8082_TAC042*sub4		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:31:04	Calib Date:	03-Mar-2011 11:55:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:31:04

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.399	3.399	0.000	113587	10.2		100.0	
1	2	3.483	3.484	-0.001	89053	10.9	32.1- 92.1	78.4	
1	3	3.558	3.559	-0.001	298931	9.04	203.6- 263.6	263.2	
			Average of Peak Amounts =			10.1			
2	4	3.415	3.417	-0.002	369114	15.2		100.0	
2	5	3.492	3.494	-0.002	203141	13.7	30.5- 90.5	55.0	
2	6	3.560	3.562	-0.002	787425	15.4	205.1- 265.1	213.3	
			Average of Peak Amounts =			14.7			
						RPD = 37.73			
8 PCB-1254									M
1	1	5.179	5.179	0.000	556260	9.28		100.0	
1	2	5.334	5.334	0.000	481824	9.80	52.1- 112.1	86.6	
1	3	5.710	5.710	0.000	613175	12.2	49.5- 109.5	110.2	
1	4	5.928	5.928	0.000	506153	12.2	46.8- 106.8	91.0	
1	5	6.308	6.307	0.001	606845	8.63	126.5- 186.5	109.1	
			Average of Peak Amounts =			10.4			
2	6	5.207	5.209	-0.002	1019719	16.0		100.0	
2	7	5.421	5.421	0.000	1636382	16.7	146.5- 206.5	160.5	M
2	8	5.738	5.738	0.000	1557882	23.6	36.8- 96.8	152.8	
2	9	5.997	5.997	0.000	1280053	16.2	102.9- 162.9	125.5	
2	10	6.355	6.355	0.000	1377496	16.5	121.8- 181.8	135.1	
			Average of Peak Amounts =			17.8			
						RPD = 52.33			
S 12 Polychlorinated biphenyls, Total									
1						20.5			
2						32.5			
						RPD = 45.50			

QC Flag Legend

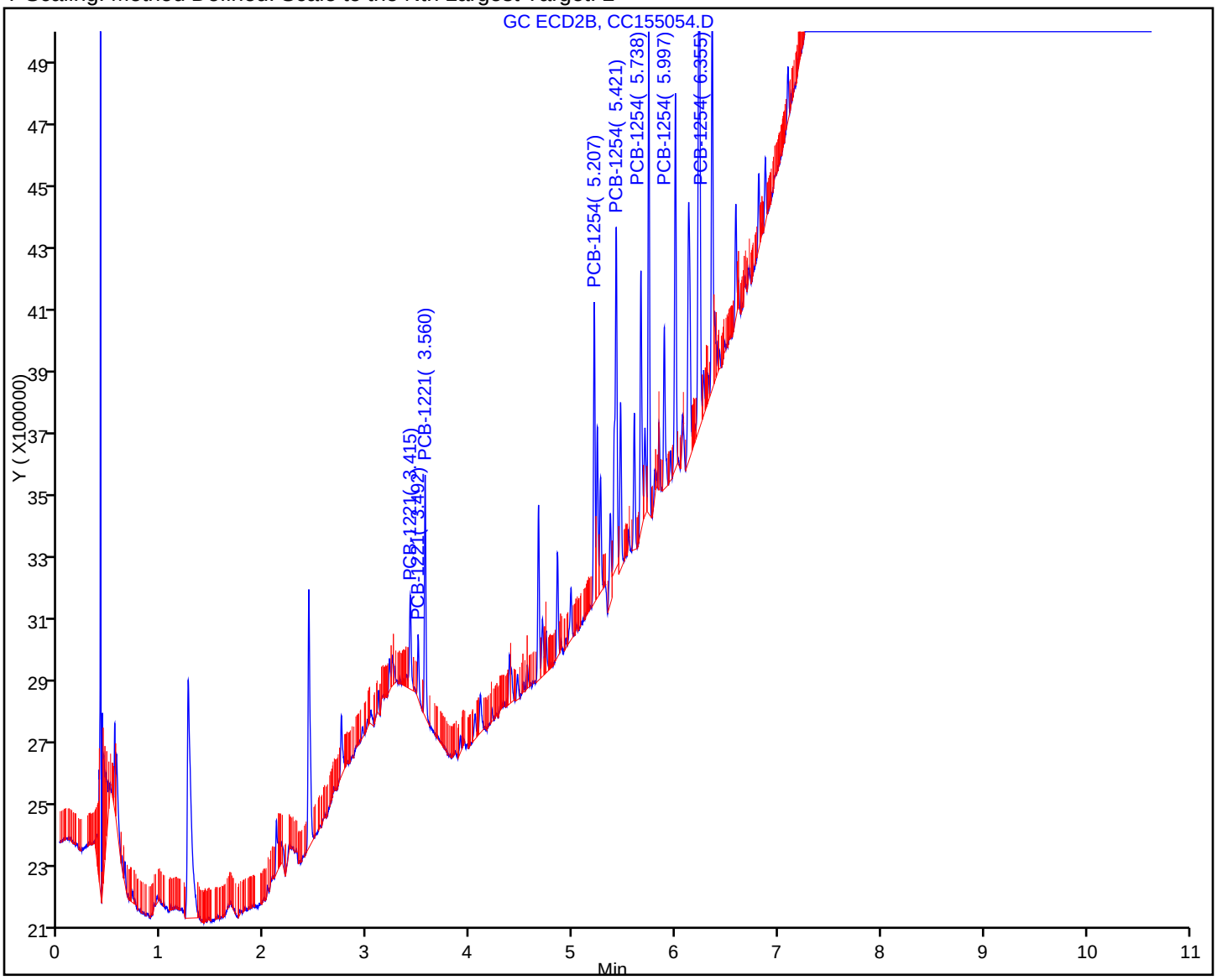
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:31:04 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155054.D

Injection Date:	03-Mar-2011 11:13:11	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	9
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155055.D
Lims ID: ic std 2154 20 Client ID:
Inject. Date: 03-Mar-2011 11:27:16 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: ic std 2154 20
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 10
Lims Batch ID: 81563 Lims Sample ID: 10
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:31:28 Calib Date: 03-Mar-2011 11:55:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:31:28

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	239930	19.3		100.0	
1	2	3.483	3.484	-0.001	143984	19.0	32.1- 92.1	60.0	
1	3	3.558	3.559	-0.001	566205	17.9	203.6- 263.6	236.0	
			Average of Peak Amounts =			18.7			
2	4	3.416	3.417	-0.001	642215	24.6		100.0	
2	5	3.493	3.494	-0.001	377829	24.5	30.5- 90.5	58.8	
2	6	3.561	3.562	-0.001	1484620	26.2	205.1- 265.1	231.2	
			Average of Peak Amounts =			25.1			
						RPD = 29.11			
8 PCB-1254									M
1	1	5.179	5.179	0.000	1051940	18.4		100.0	
1	2	5.333	5.334	-0.001	911212	18.9	52.1- 112.1	86.6	
1	3	5.711	5.710	0.001	1256700	23.6	49.5- 109.5	119.5	
1	4	5.928	5.928	0.000	919632	21.5	46.8- 106.8	87.4	
1	5	6.307	6.307	0.000	1107678	16.6	126.5- 186.5	105.3	
			Average of Peak Amounts =			19.8			
2	6	5.207	5.209	-0.002	1842687	26.2		100.0	
2	7	5.421	5.421	0.000	2431983	23.3	146.5- 206.5	132.0	
2	8	5.737	5.738	-0.001	2878450	33.6	36.8- 96.8	156.2	
2	9	5.997	5.997	0.000	2386204	27.1	102.9- 162.9	129.5	
2	10	6.355	6.355	0.000	2411264	26.1	121.8- 181.8	130.9	M
			Average of Peak Amounts =			27.2			
						RPD = 31.67			
S 12 Polychlorinated biphenyls, Total									
1						38.5			
2						52.4			
						RPD = 30.44			

QC Flag Legend

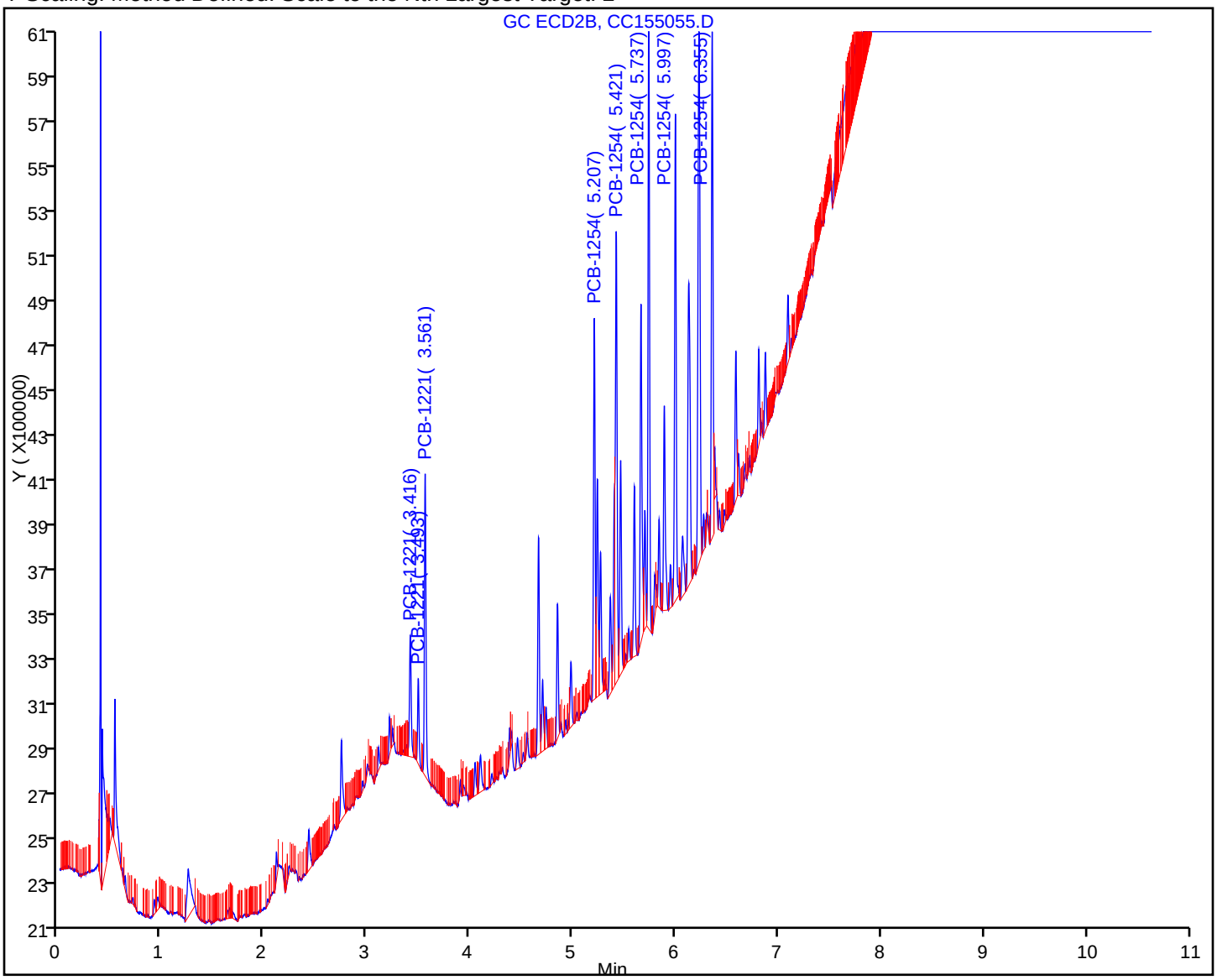
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:31:28 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155055.D

Injection Date:	03-Mar-2011 11:27:16	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	10
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155056.D		
Lims ID:	ic std 2154 50	Client ID:	
Inject. Date:	03-Mar-2011 11:41:28	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	ic std 2154 50		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	11
Lims Batch ID:	81563	Lims Sample ID:	11
Sublist:	chrom-8082_TAC042*sub4		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	03-Mar-2011 13:31:42	Calib Date:	03-Mar-2011 11:55:37
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 03-Mar-2011 13:31:42

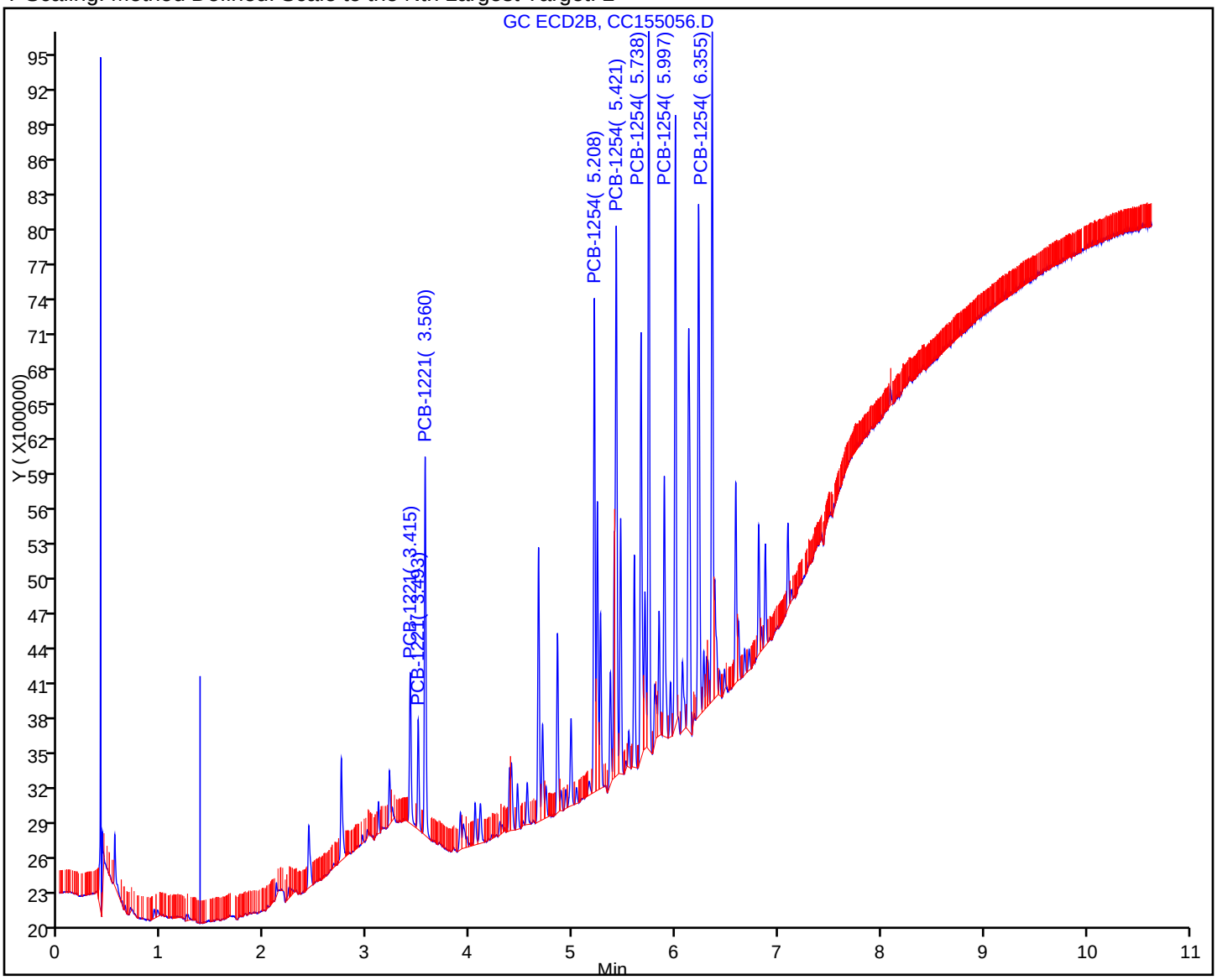
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	606005	41.0		100.0	
1	2	3.483	3.484	-0.001	378011	41.9	32.1- 92.1	62.4	
1	3	3.559	3.559	0.000	1417304	39.6	203.6- 263.6	233.9	
			Average of Peak Amounts =			40.8			
2	4	3.415	3.417	-0.002	1525049	55.8		100.0	
2	5	3.493	3.494	-0.001	962234	59.0	30.5- 90.5	63.1	
2	6	3.560	3.562	-0.002	3509642	57.0	205.1- 265.1	230.1	
			Average of Peak Amounts =			57.3			
						RPD = 33.59			
8 PCB-1254									
1	1	5.179	5.179	0.000	2528986	45.8		100.0	
1	2	5.334	5.334	0.000	2189745	46.3	52.1- 112.1	86.6	
1	3	5.711	5.710	0.001	2958120	53.0	49.5- 109.5	117.0	
1	4	5.928	5.928	0.000	2244828	51.6	46.8- 106.8	88.8	
1	5	6.308	6.307	0.001	2661636	43.0	126.5- 186.5	105.2	
			Average of Peak Amounts =			47.9			
2	6	5.208	5.209	-0.001	4477859	58.2		100.0	
2	7	5.421	5.421	0.000	5803244	52.1	146.5- 206.5	129.6	
2	8	5.738	5.738	0.000	7158819	68.3	36.8- 96.8	159.9	
2	9	5.997	5.997	0.000	5523765	56.6	102.9- 162.9	123.4	
2	10	6.355	6.355	0.000	6002283	58.6	121.8- 181.8	134.0	
			Average of Peak Amounts =			58.8			
						RPD = 20.28			
S 12 Polychlorinated biphenyls, Total									
1						88.8			
2						116.1			
						RPD = 26.65			

Report Date: 03-Mar-2011 13:31:43 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155056.D

Injection Date:	03-Mar-2011 11:41:28	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	11
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D
Lims ID: ic std 2154 100 Client ID:
Inject. Date: 03-Mar-2011 11:55:37 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 10
Sample ID: ic std 2154 100
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 12
Lims Batch ID: 81563 Lims Sample ID: 12
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:32:11 Calib Date: 03-Mar-2011 11:55:37
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:32:11

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	1	3.399	3.399	0.000	1112027	68.8		100.0	
1	2	3.484	3.484	0.000	713044	68.6	32.1- 92.1	64.1	M
1	3	3.559	3.559	0.000	2790920	70.9	203.6- 263.6	251.0	
			Average of Peak Amounts =			69.4			
2	4	3.417	3.417	0.000	2798462	102.5		100.0	
2	5	3.494	3.494	0.000	1736878	106.6	30.5- 90.5	62.1	
2	6	3.562	3.562	0.000	6816996	110.7	205.1- 265.1	243.6	
			Average of Peak Amounts =			106.6			
						RPD = 42.24			
8 PCB-1254									M
1	1	5.179	5.179	0.000	4892362	88.6		100.0	
1	2	5.334	5.334	0.000	4113028	87.0	52.1- 112.1	84.1	
1	3	5.710	5.710	0.000	5952591	106.7	49.5- 109.5	121.7	
1	4	5.928	5.928	0.000	4425492	101.7	46.8- 106.8	90.5	
1	5	6.307	6.307	0.000	4973241	80.3	126.5- 186.5	101.7	
			Average of Peak Amounts =			92.9			
2	6	5.209	5.209	0.000	7796608	101.4		100.0	
2	7	5.421	5.421	0.000	10534571	94.5	146.5- 206.5	135.1	
2	8	5.738	5.738	0.000	13258692	126.5	36.8- 96.8	170.1	
2	9	5.997	5.997	0.000	10237788	104.8	102.9- 162.9	131.3	
2	10	6.355	6.355	0.000	11448281	109.5	121.8- 181.8	146.8	M
			Average of Peak Amounts =			107.4			
						RPD = 14.47			
S 12 Polychlorinated biphenyls, Total									
1						162.3			
2						213.9			
						RPD = 27.46			

QC Flag Legend

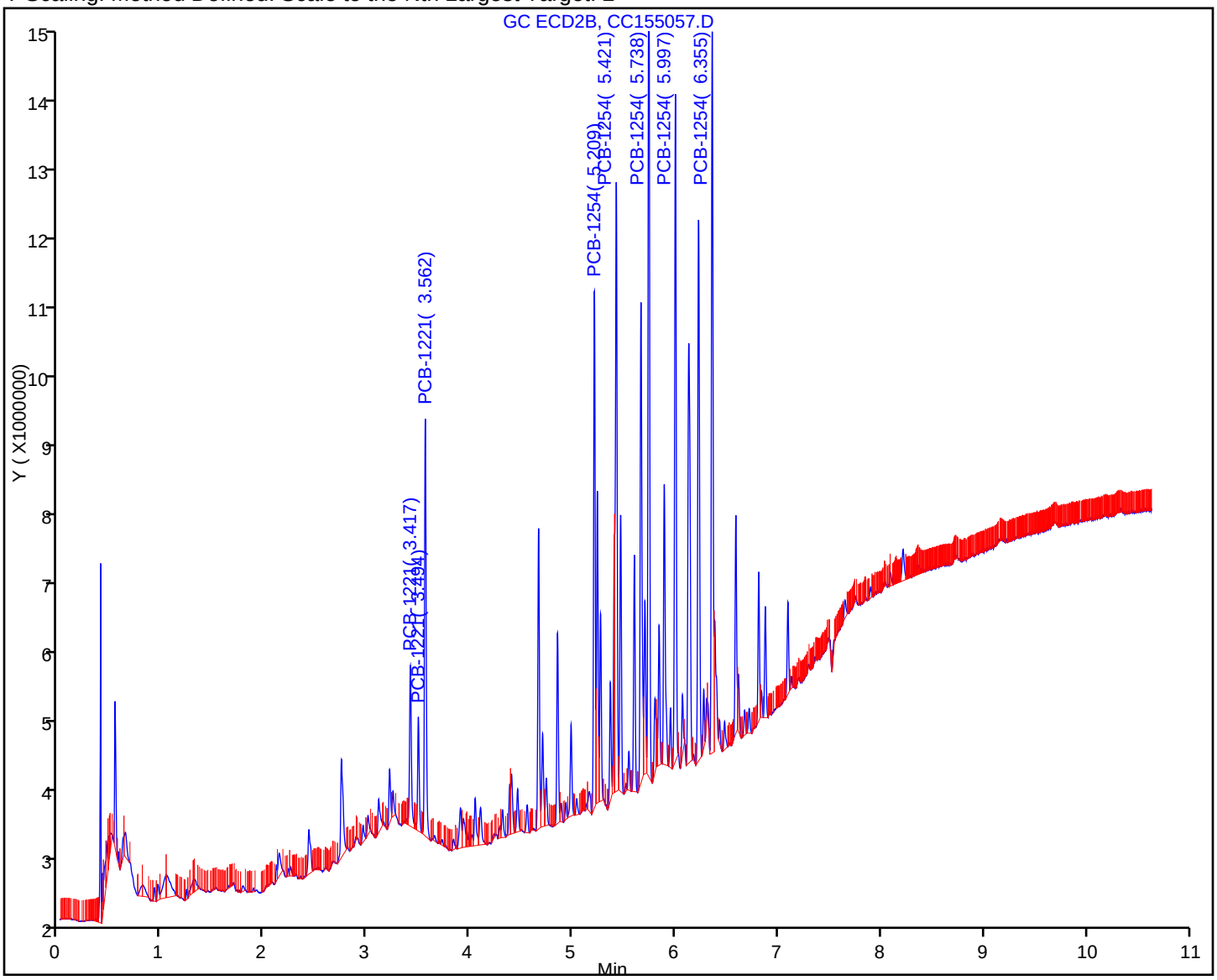
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:32:12 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155057.D

Injection Date:	03-Mar-2011 11:55:37	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	12
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155058.D
Lims ID: ic std 2154 500 Client ID:
Inject. Date: 03-Mar-2011 12:09:46 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 11
Sample ID: ic std 2154 500
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 13
Lims Batch ID: 81563 Lims Sample ID: 13
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:32:25 Calib Date: 03-Mar-2011 12:09:46
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155058.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:32:25

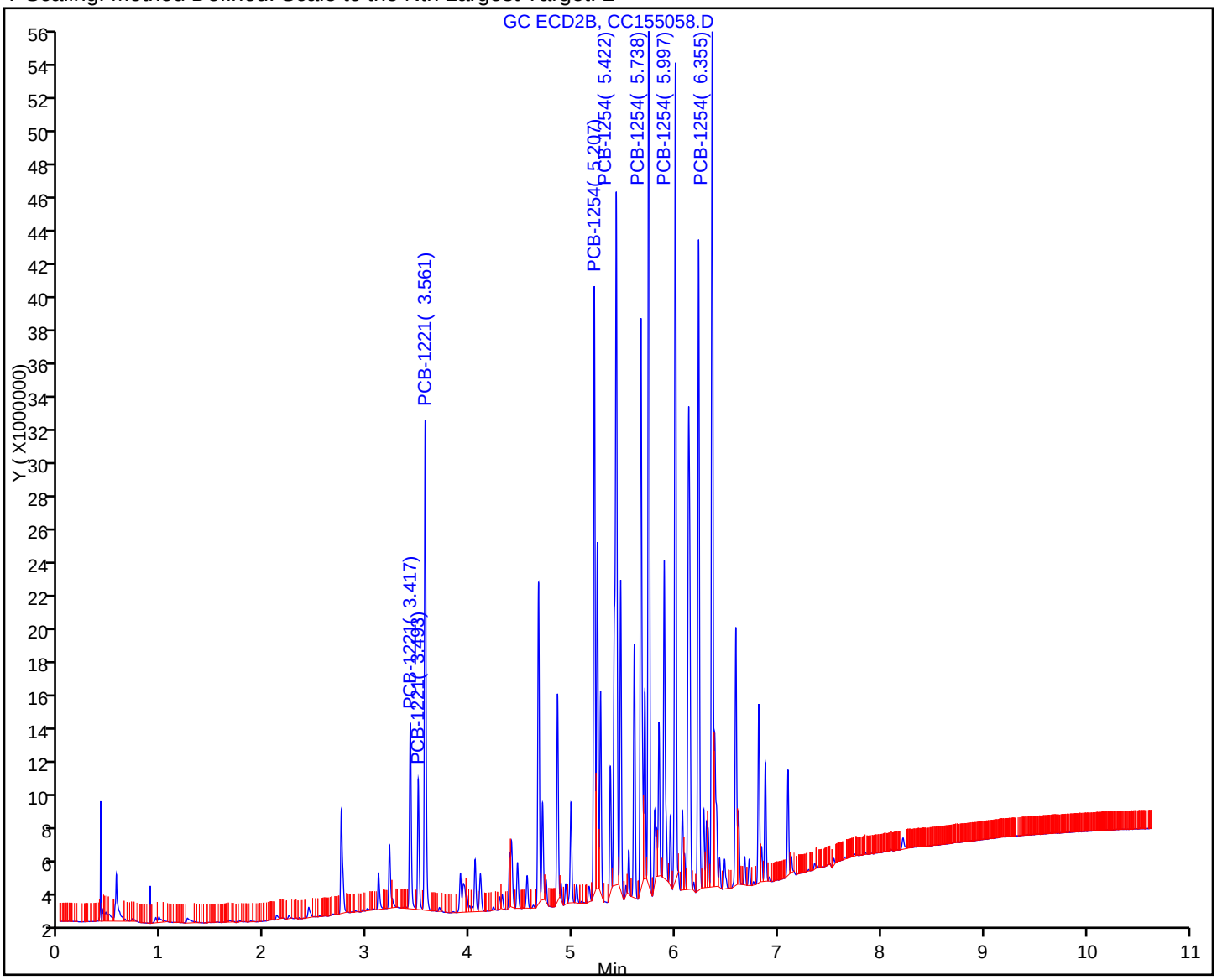
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	5843115	458.8		100.0	
1	2	3.483	3.484	-0.001	3729840	375.8	32.1- 92.1	63.8	
1	3	3.557	3.559	-0.002	13046219	424.7	203.6- 263.6	223.3	
			Average of Peak Amounts =			419.8			
2	4	3.417	3.417	0.000	13549353	471.6		100.0	
2	5	3.493	3.494	-0.001	8524789	493.8	30.5- 90.5	62.9	
2	6	3.561	3.562	-0.001	32225555	490.4	205.1- 265.1	237.8	
			Average of Peak Amounts =			485.2			
						RPD = 14.46			
8 PCB-1254									
1	1	5.180	5.179	0.001	24038433	455.9		100.0	
1	2	5.333	5.334	-0.001	19477184	432.8	52.1- 112.1	81.0	
1	3	5.711	5.710	0.001	29902513	514.4	49.5- 109.5	124.4	
1	4	5.927	5.928	-0.001	21765550	488.5	46.8- 106.8	90.5	
1	5	6.307	6.307	0.000	24284469	423.0	126.5- 186.5	101.0	
			Average of Peak Amounts =			462.9			
2	6	5.207	5.209	-0.002	38330841	472.7		100.0	
2	7	5.422	5.421	0.001	61525297	519.9	146.5- 206.5	160.5	
2	8	5.738	5.738	0.000	65950103	541.3	36.8- 96.8	172.1	
2	9	5.997	5.997	0.000	51362851	494.5	102.9- 162.9	134.0	
2	10	6.355	6.355	0.000	56156613	501.0	121.8- 181.8	146.5	
			Average of Peak Amounts =			505.9			
						RPD = 8.87			
S 12 Polychlorinated biphenyls, Total									
1						882.7			
2						991.1			
						RPD = 11.57			

Report Date: 03-Mar-2011 13:32:25 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155058.D

Injection Date:	03-Mar-2011 12:09:46	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	13
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155059.D
Lims ID: ic std 2154 1000 Client ID:
Inject. Date: 03-Mar-2011 12:23:52 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 12
Sample ID: ic std 2154 1000
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 14
Lims Batch ID: 81563 Lims Sample ID: 14
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 03-Mar-2011 13:33:49 Calib Date: 03-Mar-2011 12:23:52
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155059.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:33:48

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.398	3.399	-0.001	10587943	922.4		100.0	
1	2	3.483	3.484	-0.001	6747577	966.7	32.1- 92.1	63.7	
1	3	3.558	3.559	-0.001	24932501	904.0	203.6- 263.6	235.5	
			Average of Peak Amounts =			931.0			
2	4	3.416	3.417	-0.001	25966431	862.8		100.0	
2	5	3.493	3.494	-0.001	16309738	896.3	30.5- 90.5	62.8	
2	6	3.561	3.562	-0.001	61185071	880.4	205.1- 265.1	235.6	
			Average of Peak Amounts =			879.8			
						RPD = 5.65			
8 PCB-1254									M
1	1	5.179	5.179	0.000	48681609	959.3		100.0	
1	2	5.333	5.334	-0.001	39568718	923.1	52.1- 112.1	81.3	
1	3	5.710	5.710	0.000	61673827	1015.7	49.5- 109.5	126.7	
1	4	5.927	5.928	-0.001	45187584	987.8	46.8- 106.8	92.8	
1	5	6.307	6.307	0.000	50723893	956.1	126.5- 186.5	104.2	
			Average of Peak Amounts =			968.4			
2	6	5.207	5.209	-0.002	80536872	931.4		100.0	
2	7	5.421	5.421	0.000	131362686	1035.6	146.5- 206.5	163.1	
2	8	5.738	5.738	0.000	137400413	975.9	36.8- 96.8	170.6	
2	9	5.997	5.997	0.000	106943230	957.9	102.9- 162.9	132.8	
2	10	6.356	6.356	0.000	118455194	982.2	121.8- 181.8	147.1	M
			Average of Peak Amounts =			976.6			
						RPD = 0.84			
S 12 Polychlorinated biphenyls, Total									
1						1899.4			
2						1856.4			
						RPD = 2.29			

QC Flag Legend

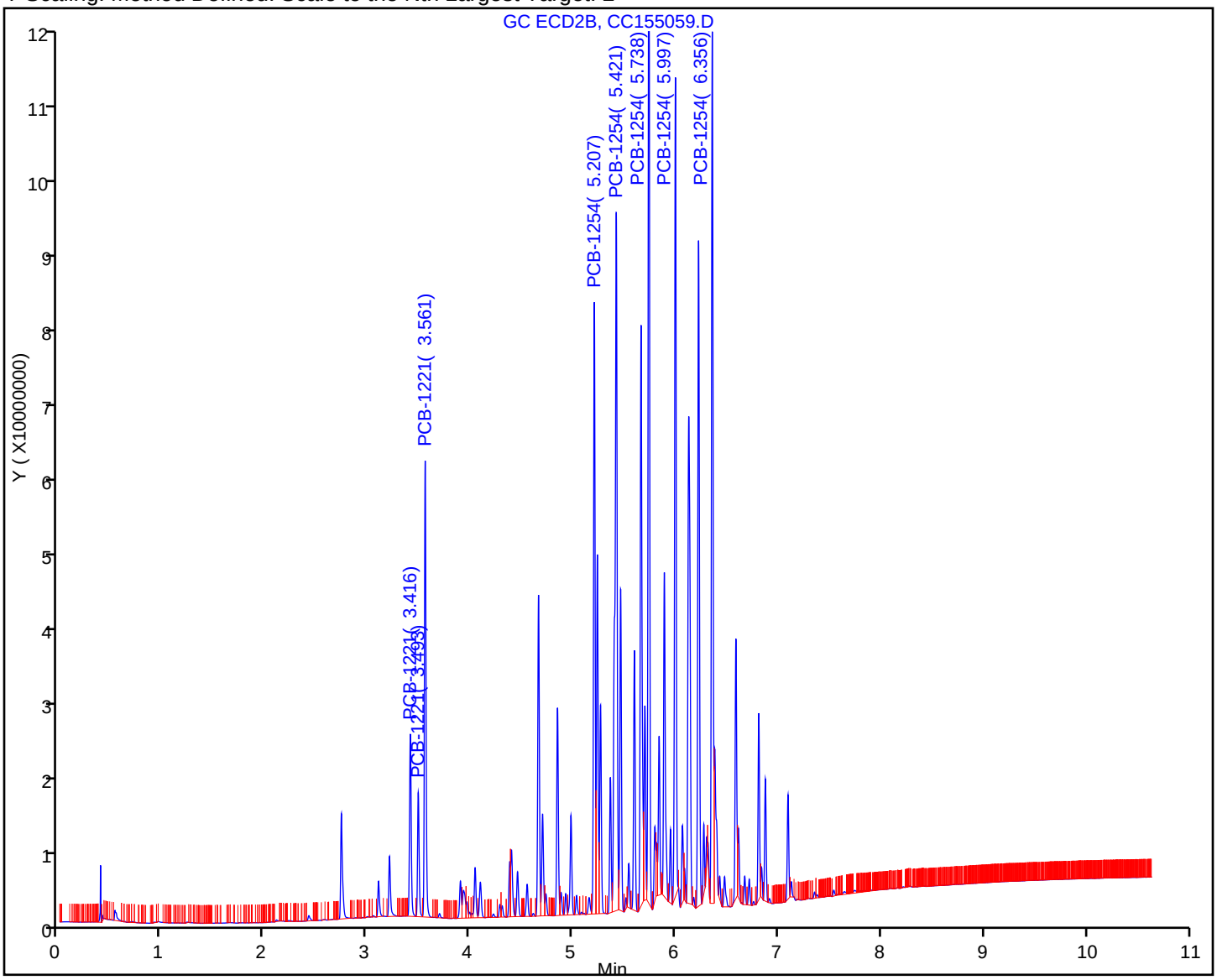
Review Flags
M - Manually Integrated

Report Date: 03-Mar-2011 13:33:49 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155059.D

Injection Date:	03-Mar-2011 12:23:52	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	14
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 14:54 Calibration End Date: 03/03/2011 16:05 Calibration ID: 7370

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/16	CC155066.D
Level 2	IC 580-81563/17	CC155067.D
Level 3	IC 580-81563/18	CC155068.D
Level 4	IC 580-81563/19	CC155069.D
Level 5	IC 580-81563/20	CC155070.D
Level 6	IC 580-81563/21	CC155071.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	3.399	3.399	3.398	3.398	3.398	3.398					3.368 - 3.428	3.398
PCB-1232 Peak 2	3.559	3.558	3.558	3.558	3.558	3.558					3.528 - 3.588	3.558
PCB-1232 Peak 3	4.095	4.095	4.094	4.094	4.095	4.094					4.064 - 4.124	4.095
PCB-1232 Peak 4	4.419	4.419	4.419	4.418	4.419	4.418					4.388 - 4.448	4.419
PCB-1232 Peak 5	4.544	4.544	4.544	4.543	4.544	4.544					4.514 - 4.574	4.544
PCB-1262 Peak 1	6.019	6.018	6.018	6.018	6.018	6.017					5.987 - 6.047	6.018
PCB-1262 Peak 2	6.349	6.348	6.348	6.347	6.347	6.348					6.318 - 6.378	6.348
PCB-1262 Peak 3	6.787	6.787	6.787	6.786	6.785	6.786					6.756 - 6.816	6.786
PCB-1262 Peak 4	7.076	7.076	7.076	7.075	7.075	7.076					7.046 - 7.106	7.076
PCB-1262 Peak 5	7.475	7.475	7.475	7.474	7.474	7.475					7.445 - 7.505	7.475

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 14:54 Calibration End Date: 03/03/2011 16:05 Calibration ID: 7370

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/16	CC155066.D
Level 2	IC 580-81563/17	CC155067.D
Level 3	IC 580-81563/18	CC155068.D
Level 4	IC 580-81563/19	CC155069.D
Level 5	IC 580-81563/20	CC155070.D
Level 6	IC 580-81563/21	CC155071.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	8994.0 6897.0	6610.9 7108.6	8264.2	8080.9	Lin1	19164.4721	7074.75010							0.9980		0.9900
PCB-1232 Peak 2	24723 20526	22265 20089	23837	23811	Ave		22541.8913				8.5		20.0			
PCB-1232 Peak 3	11647 11228	10993 11083	12279	13615	Ave		11807.4863				8.5		20.0			
PCB-1232 Peak 4	12253 13555	13179 13371	12255	15510	Ave		13353.6710				8.9		20.0			
PCB-1232 Peak 5	12629 10619	10560 10681	11463	12427	Ave		11396.4503				8.2		20.0			
PCB-1262 Peak 1	48908 42061	42764 41887	47210	49004	Ave		45305.4120				7.6		20.0			
PCB-1262 Peak 2	65420 58858	58508 58873	63977	67989	Ave		62270.8545				6.5		20.0			
PCB-1262 Peak 3	111817 111399	100830 112141	113132	124170	Lin1	-10540.497	112566.316							0.9990		0.9900
PCB-1262 Peak 4	85380 80809	76676 81327	84429	91973	Ave		83432.6947				6.2		20.0			
PCB-1262 Peak 5	37065 35196	32959 35248	37158	40876	Ave		36416.8228				7.3		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 14:54 Calibration End Date: 03/03/2011 16:05 Calibration ID: 7370

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/16	CC155066.D
Level 2	IC 580-81563/17	CC155067.D
Level 3	IC 580-81563/18	CC155068.D
Level 4	IC 580-81563/19	CC155069.D
Level 5	IC 580-81563/20	CC155070.D
Level 6	IC 580-81563/21	CC155071.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Lin1	89940 7108591	132217	413212	808088	3448519	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 2	Ave	247232 20089252	445304	1191850	2381064	10263028	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 3	Ave	116467 11082618	219866	613961	1361478	5614150	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 4	Ave	122525 13371362	263571	612759	1550968	6777377	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 5	Ave	126294 10680968	211193	573152	1242668	5309482	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 1	Ave	493966 42305373	863838	2384080	4949416	21240582	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 2	Ave	660740 59461654	1181860	3230849	6866887	29723437	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 3	Lin1	1129356 113262636	2036760	5713150	12541121	56256259	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 4	Ave	862343 82140660	1548855	4263688	9289310	40808780	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 5	Ave	374355 35600050	665777	1876459	4128457	17773898	10.1 1010	20.2	50.5	101	505

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155066.D
Lims ID: ic std 3262 10 Client ID:
Inject. Date: 03-Mar-2011 14:54:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 13
Sample ID: ic std 3262 10
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 16
Lims Batch ID: 81563 Lims Sample ID: 16
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:33 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 09-Mar-2011 08:25:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.399	3.398	0.001	89940	10.0		100.0	
1	2	3.559	3.558	0.001	247232	11.0	25.3- 85.3	274.9	
1	3	4.095	4.094	0.001	116467	9.86	18.4- 78.4	129.5	
1	4	4.419	4.418	0.001	122525	9.18	13.3- 73.3	136.2	
1	5	4.544	4.544	0.000	126294	11.1	13.9- 73.9	140.4	
			Average of Peak Amounts =			10.2			
2	1	3.415	3.416	-0.001	144301	7.23		100.0	
2	2	3.561	3.561	0.000	616628	10.9	26.2- 86.2	427.3	
2	3	4.099	4.098	0.001	432158	12.9	33.0- 93.0	299.5	
2	4	4.459	4.459	0.000	378300	10.8	19.2- 79.2	262.2	
2	5	4.554	4.553	0.001	306793	10.8	6.1- 66.1	212.6	
			Average of Peak Amounts =			10.5			
						RPD = 3.19			
10 PCB-1262									
1	1	6.019	6.017	0.002	493966	10.9		100.0	
1	2	6.349	6.348	0.001	660740	10.6	69.3- 129.3	133.8	
1	3	6.787	6.786	0.001	1129356	10.1	165.2- 225.2	228.6	
1	4	7.076	7.076	0.000	862343	10.3	114.1- 174.1	174.6	
1	5	7.475	7.475	0.000	374355	10.3	34.4- 94.4	75.8	
			Average of Peak Amounts =			10.5			
2	6	6.125	6.125	0.000	1411440	11.8		100.0	
2	7	6.428	6.428	0.000	1389895	10.2	59.8- 119.8	98.5	
2	8	6.874	6.873	0.001	2690205	9.90	166.0- 226.0	190.6	
2	9	7.092	7.091	0.001	1653625	9.90	90.8- 150.8	117.2	
2	10	7.539	7.538	0.001	965020	10.9	38.9- 98.9	68.4	
			Average of Peak Amounts =			10.5			
						RPD = 0.87			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						20.7			
2						21.1			
						RPD = 2.02			

Report Date: 09-Mar-2011 08:25:33 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155066.D

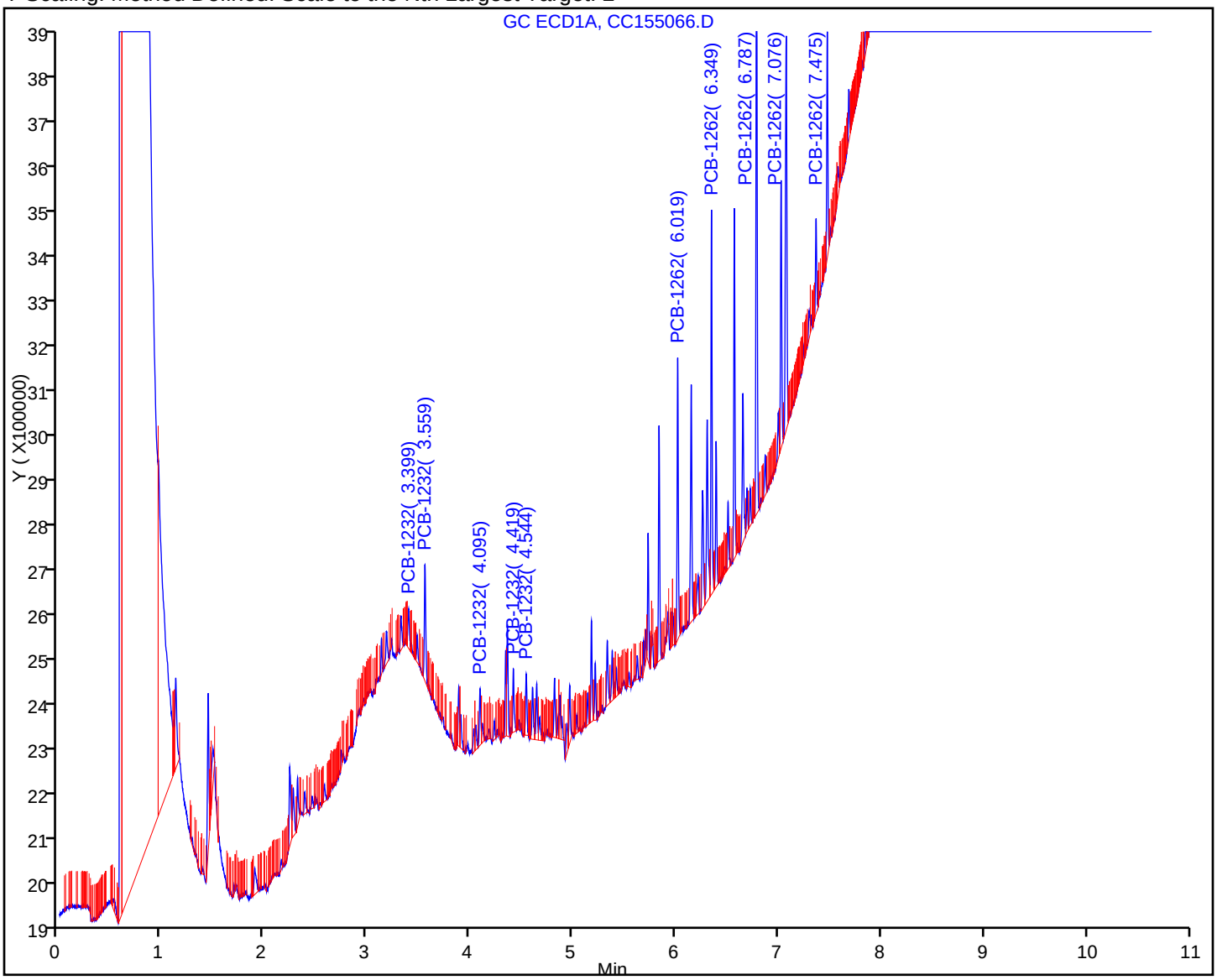
Injection Date: 03-Mar-2011 14:54:29 Limit Group: 8082 PCBs

Client ID: Instrument ID: TAC042

Lims Batch ID: 81563 Lims Sample ID: 16

Operator ID: mam Injection Vol: 1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155067.D
Lims ID: ic std 3262 20 Client ID:
Inject. Date: 03-Mar-2011 15:08:37 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 14
Sample ID: ic std 3262 20
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 17
Lims Batch ID: 81563 Lims Sample ID: 17
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:39 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:24:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.399	3.398	0.001	132217	16.0		100.0	
1	2	3.558	3.558	0.000	445304	19.8	25.3- 85.3	336.8	
1	3	4.095	4.094	0.001	219866	18.6	18.4- 78.4	166.3	
1	4	4.419	4.418	0.001	263571	19.7	13.3- 73.3	199.3	
1	5	4.544	4.544	0.000	211193	18.5	13.9- 73.9	159.7	
			Average of Peak Amounts =			18.5			
2	1	3.416	3.416	0.000	530307	26.6		100.0	
2	2	3.562	3.561	0.001	1157356	20.5	26.2- 86.2	218.2	
2	3	4.098	4.098	0.000	757399	22.7	33.0- 93.0	142.8	
2	4	4.459	4.459	0.000	679914	19.5	19.2- 79.2	128.2	
2	5	4.554	4.553	0.001	577558	20.3	6.1- 66.1	108.9	
			Average of Peak Amounts =			21.9			
						RPD = 16.79			
10 PCB-1262									
1	1	6.018	6.017	0.001	863838	19.1		100.0	
1	2	6.348	6.348	0.000	1181860	19.0	69.3- 129.3	136.8	
1	3	6.787	6.786	0.001	2036760	18.2	165.2- 225.2	235.8	
1	4	7.076	7.076	0.000	1548855	18.6	114.1- 174.1	179.3	
1	5	7.475	7.475	0.000	665777	18.3	34.4- 94.4	77.1	
			Average of Peak Amounts =			18.6			
2	6	6.125	6.125	0.000	2264086	19.0		100.0	
2	7	6.428	6.428	0.000	2532620	18.6	59.8- 119.8	111.9	
2	8	6.873	6.873	0.000	4941635	18.2	166.0- 226.0	218.3	
2	9	7.091	7.091	0.000	3102638	18.6	90.8- 150.8	137.0	
2	10	7.538	7.538	0.000	1740032	19.6	38.9- 98.9	76.9	
			Average of Peak Amounts =			18.8			
						RPD = 0.93			

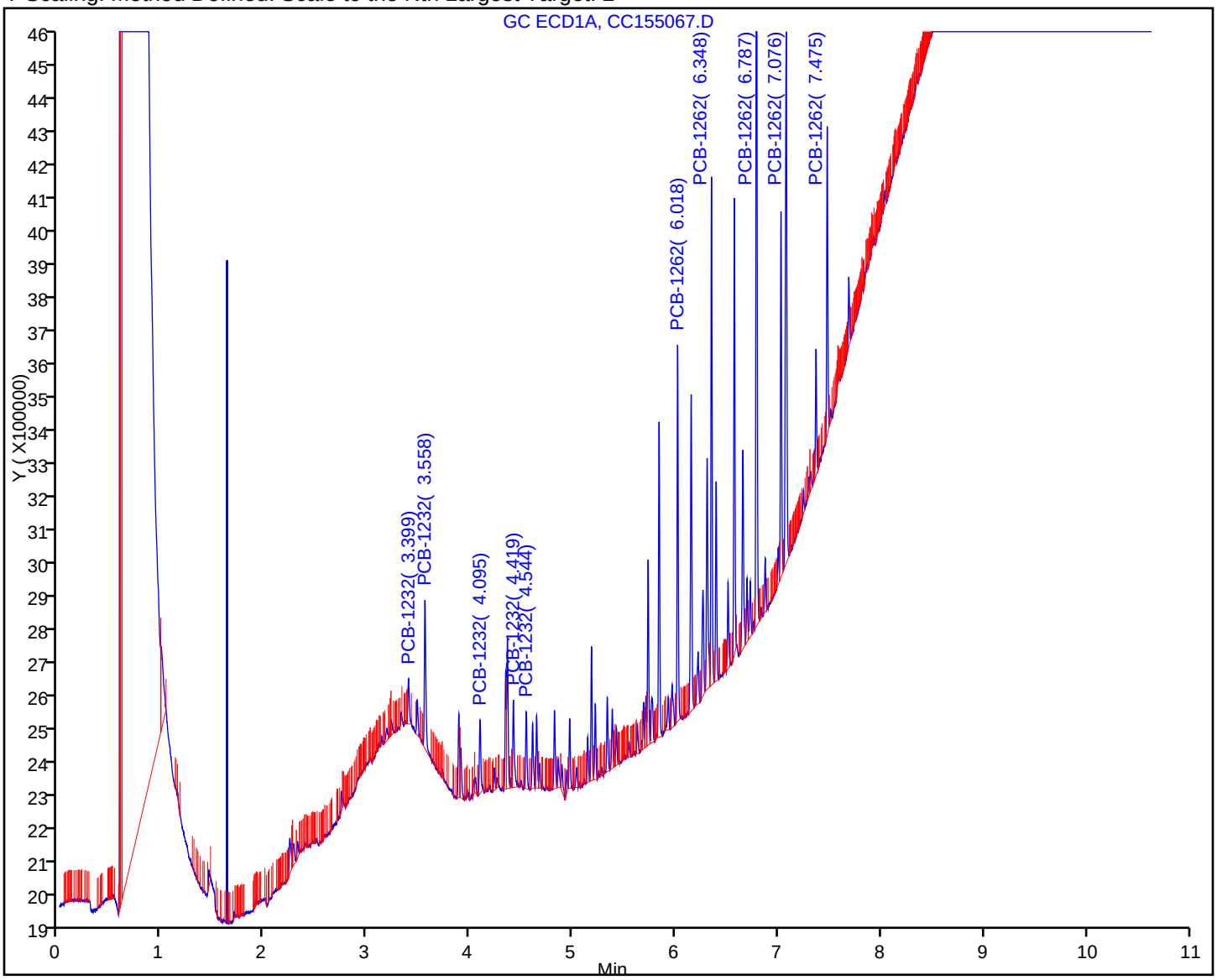
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						37.1			
2						40.7			
						RPD = 9.17			

Report Date: 09-Mar-2011 08:25:39 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155067.D

Injection Date:	03-Mar-2011 15:08:37	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	17
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155068.D
Lims ID: ic std 3262 50 Client ID:
Inject. Date: 03-Mar-2011 15:22:43 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 15
Sample ID: ic std 3262 50
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 18
Lims Batch ID: 81563 Lims Sample ID: 18
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:44 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:42:41

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	413212	55.7		100.0	
1	2	3.558	3.558	0.000	1191850	52.9	25.3- 85.3	288.4	
1	3	4.094	4.094	0.000	613961	52.0	18.4- 78.4	148.6	
1	4	4.419	4.418	0.001	612759	45.9	13.3- 73.3	148.3	
1	5	4.544	4.544	0.000	573152	50.3	13.9- 73.9	138.7	
			Average of Peak Amounts =			51.3			
2	1	3.416	3.416	0.000	980225	49.1		100.0	
2	2	3.561	3.561	0.000	2909839	51.7	26.2- 86.2	296.9	
2	3	4.098	4.098	0.000	1746357	52.3	33.0- 93.0	178.2	
2	4	4.459	4.459	0.000	1865723	53.4	19.2- 79.2	190.3	
2	5	4.553	4.553	0.000	1467544	51.7	6.1- 66.1	149.7	
			Average of Peak Amounts =			51.6			
						RPD = 0.54			
10 PCB-1262									
1	1	6.018	6.017	0.001	2384080	52.6		100.0	
1	2	6.348	6.348	0.000	3230849	51.9	69.3- 129.3	135.5	
1	3	6.787	6.786	0.001	5713150	50.8	165.2- 225.2	239.6	
1	4	7.076	7.076	0.000	4263688	51.1	114.1- 174.1	178.8	
1	5	7.475	7.475	0.000	1876459	51.5	34.4- 94.4	78.7	
			Average of Peak Amounts =			51.6			
2	6	6.125	6.125	0.000	6221354	52.1		100.0	
2	7	6.428	6.428	0.000	7253759	53.3	59.8- 119.8	116.6	
2	8	6.873	6.873	0.000	14010456	51.6	166.0- 226.0	225.2	
2	9	7.091	7.091	0.000	8579439	51.4	90.8- 150.8	137.9	
2	10	7.539	7.538	0.001	4498457	50.7	38.9- 98.9	72.3	
			Average of Peak Amounts =			51.8			
						RPD = 0.41			

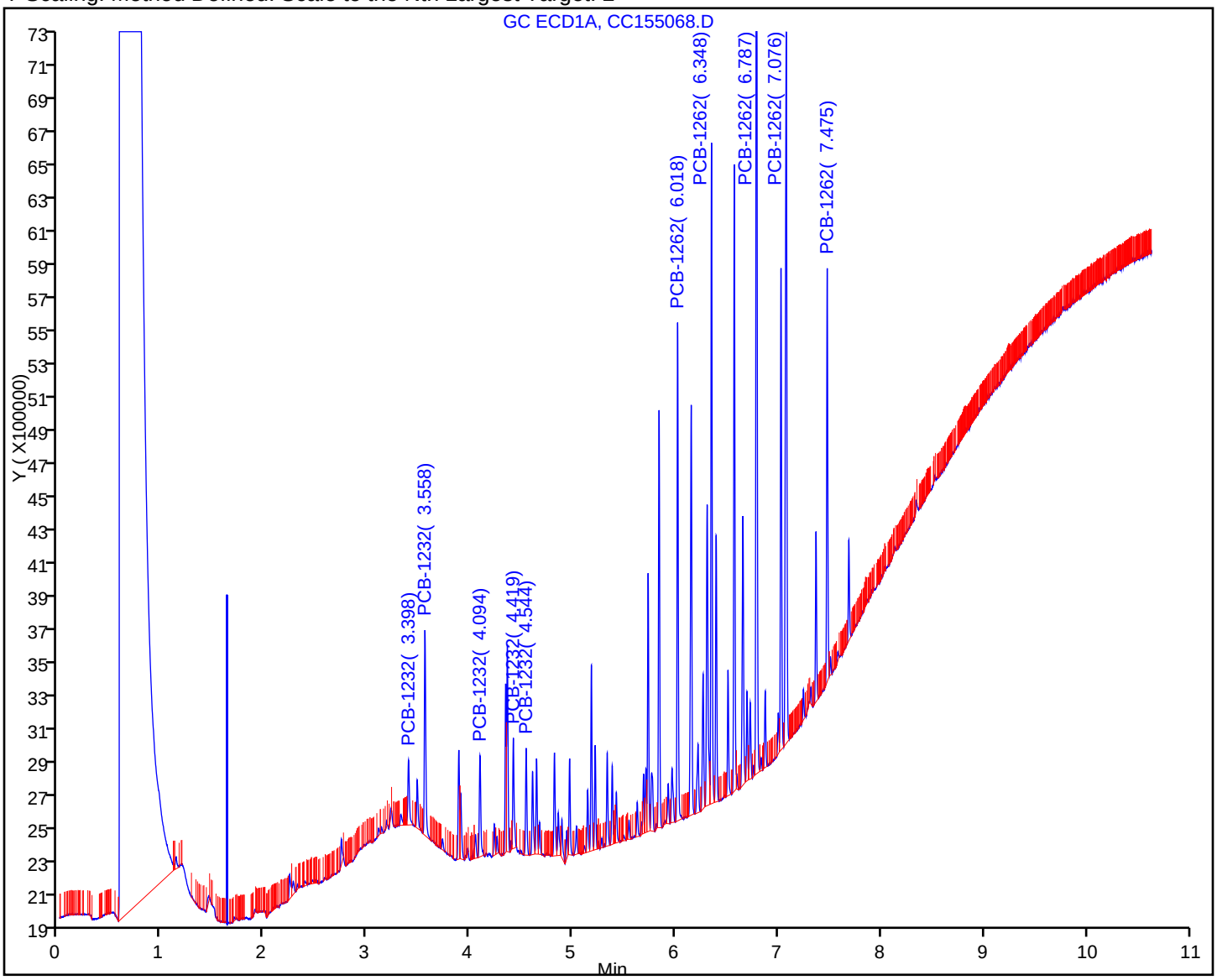
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						102.9			
2						103.4			
						RPD = 0.48			

Report Date: 09-Mar-2011 08:25:44 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155068.D

Injection Date:	03-Mar-2011 15:22:43	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	18
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155069.D		
Lims ID:	ic std 3262 100	Client ID:	
Inject. Date:	03-Mar-2011 15:36:50	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	16
Sample ID:	ic std 3262 100		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	19
Lims Batch ID:	81563	Lims Sample ID:	19
Sublist:	chrom-8082_TAC042*sub2		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	09-Mar-2011 08:25:49	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 08-Mar-2011 13:25:25

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	808088	111.5		100.0	
1	2	3.558	3.558	0.000	2381064	105.6	25.3- 85.3	294.7	
1	3	4.094	4.094	0.000	1361478	115.3	18.4- 78.4	168.5	
1	4	4.418	4.418	0.000	1550968	116.1	13.3- 73.3	191.9	
1	5	4.543	4.544	-0.001	1242668	109.0	13.9- 73.9	153.8	
			Average of Peak Amounts =			111.5			
2	1	3.416	3.416	0.000	2233436	112.0		100.0	
2	2	3.561	3.561	0.000	6019978	106.9	26.2- 86.2	269.5	
2	3	4.098	4.098	0.000	3124735	93.5	33.0- 93.0	139.9	
2	4	4.460	4.459	0.001	3750699	107.4	19.2- 79.2	167.9	
2	5	4.553	4.553	0.000	3024397	106.5	6.1- 66.1	135.4	
			Average of Peak Amounts =			105.2			
						RPD = 5.80			
10 PCB-1262									
1	1	6.018	6.017	0.001	4949416	109.2		100.0	
1	2	6.347	6.348	-0.001	6866887	110.3	69.3- 129.3	138.7	
1	3	6.786	6.786	0.000	12541121	111.5	165.2- 225.2	253.4	
1	4	7.075	7.076	-0.001	9289310	111.3	114.1- 174.1	187.7	
1	5	7.474	7.475	-0.001	4128457	113.4	34.4- 94.4	83.4	
			Average of Peak Amounts =			111.1			
2	6	6.124	6.125	-0.001	12632040	105.9		100.0	
2	7	6.427	6.428	-0.001	14938009	109.8	59.8- 119.8	118.3	
2	8	6.872	6.873	-0.001	30381748	111.8	166.0- 226.0	240.5	
2	9	7.090	7.091	-0.001	18763521	112.4	90.8- 150.8	148.5	
2	10	7.538	7.538	0.000	9554930	107.6	38.9- 98.9	75.6	
			Average of Peak Amounts =			109.5			
						RPD = 1.51			

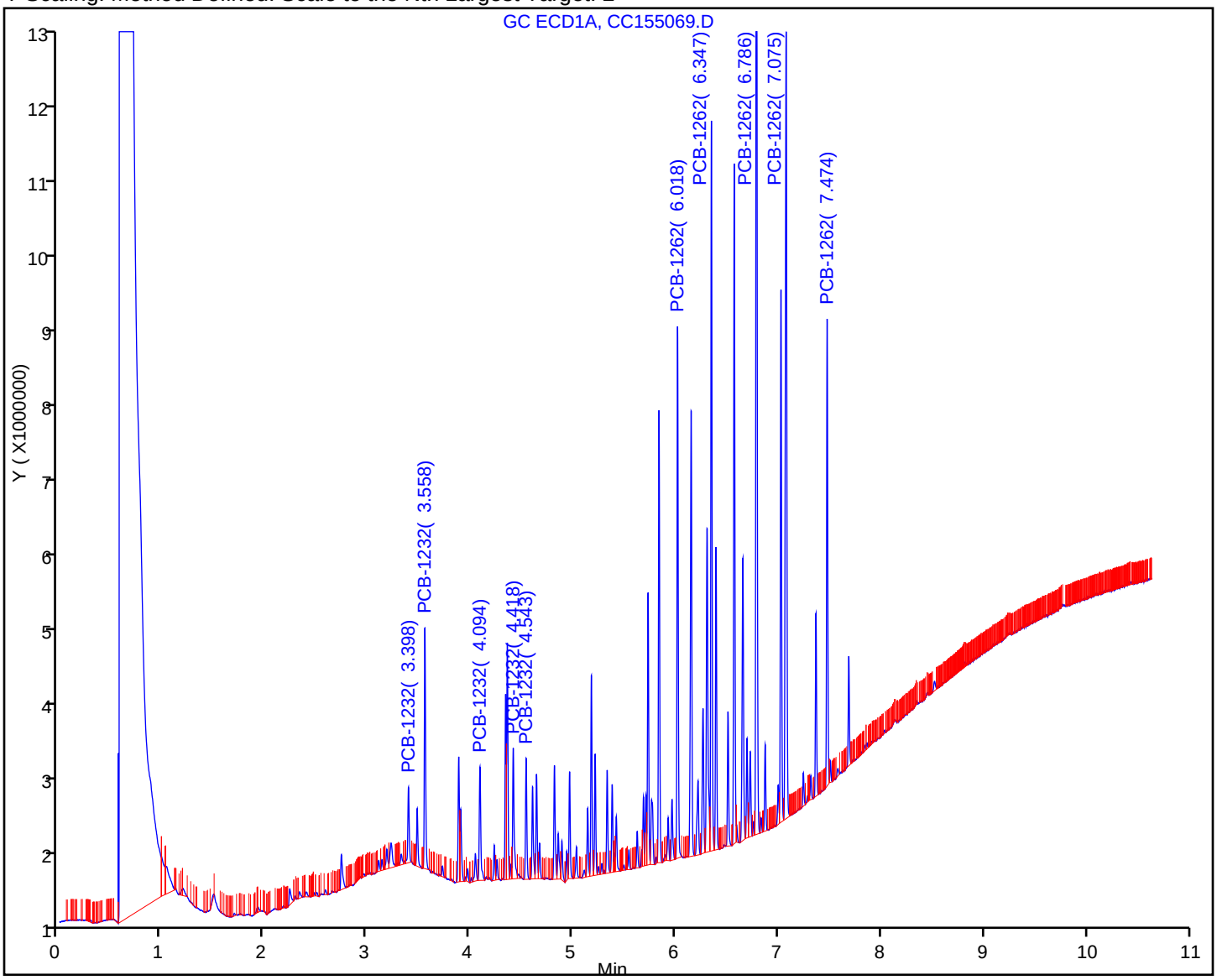
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						222.7			
2						214.7			
						RPD = 3.63			

Report Date: 09-Mar-2011 08:25:50 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155069.D

Injection Date:	03-Mar-2011 15:36:50	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	19
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155070.D
Lims ID: ic std 3262 500 Client ID:
Inject. Date: 03-Mar-2011 15:51:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 17
Sample ID: ic std 3262 500
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 20
Lims Batch ID: 81563 Lims Sample ID: 20
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

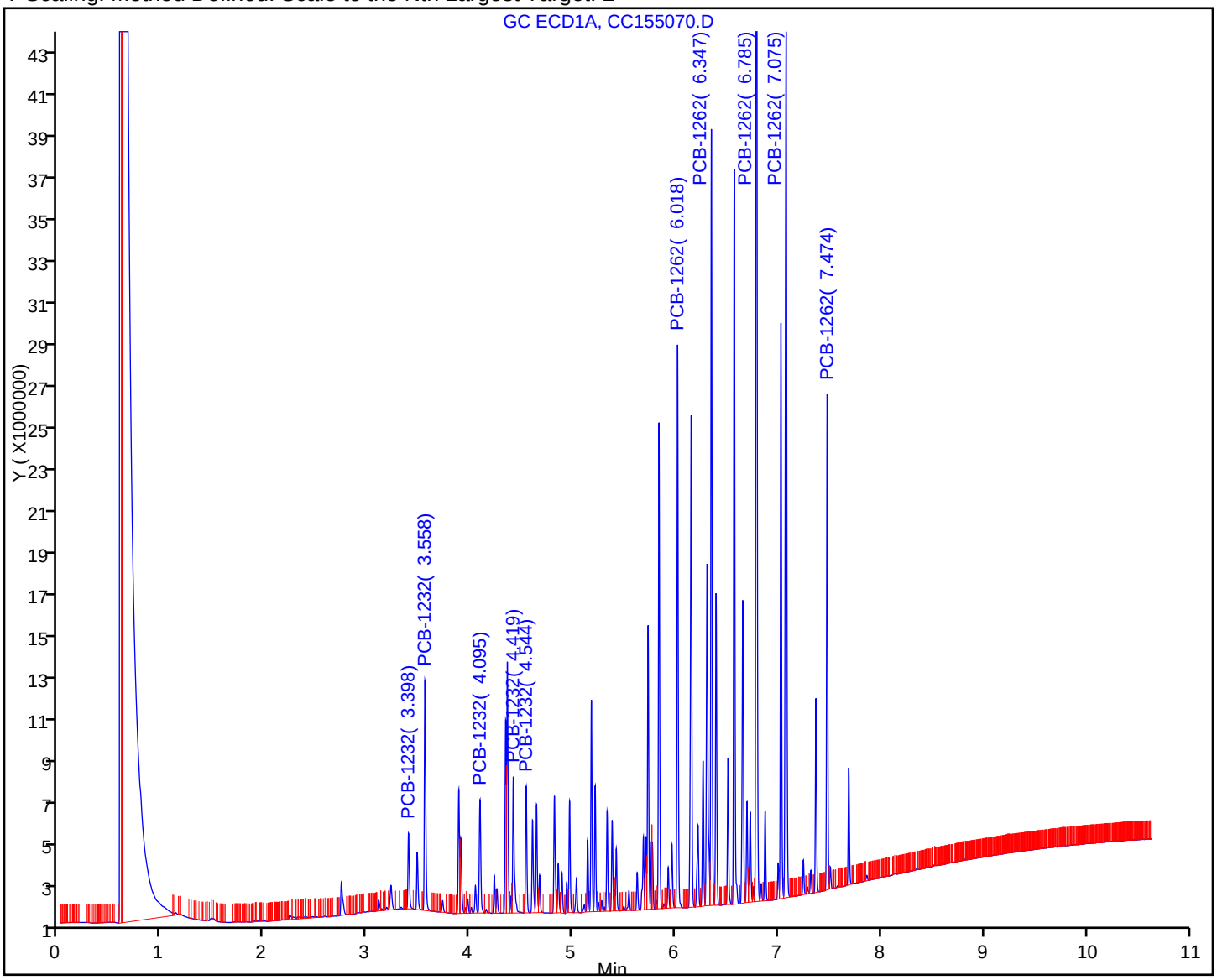
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:55 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:26:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	3448519	484.7		100.0	
1	2	3.558	3.558	0.000	10263028	455.3	25.3- 85.3	297.6	
1	3	4.095	4.094	0.001	5614150	475.5	18.4- 78.4	162.8	
1	4	4.419	4.418	0.001	6777377	507.5	13.3- 73.3	196.5	
1	5	4.544	4.544	0.000	5309482	465.9	13.9- 73.9	154.0	
			Average of Peak Amounts =			477.8			
2	1	3.416	3.416	0.000	8427965	422.5		100.0	
2	2	3.561	3.561	0.000	25067922	445.0	26.2- 86.2	297.4	
2	3	4.100	4.098	0.002	13343831	399.4	33.0- 93.0	158.3	
2	4	4.460	4.459	0.001	15749606	451.0	19.2- 79.2	186.9	
2	5	4.554	4.553	0.001	12895238	453.9	6.1- 66.1	153.0	
			Average of Peak Amounts =			434.4			
						RPD = 9.52			
10 PCB-1262									
1	1	6.018	6.017	0.001	21240582	468.8		100.0	
1	2	6.347	6.348	-0.001	29723437	477.3	69.3- 129.3	139.9	
1	3	6.785	6.786	-0.001	56256259	499.9	165.2- 225.2	264.9	
1	4	7.075	7.076	-0.001	40808780	489.1	114.1- 174.1	192.1	
1	5	7.474	7.475	-0.001	17773898	488.1	34.4- 94.4	83.7	
			Average of Peak Amounts =			484.6			
2	6	6.125	6.125	0.000	54656891	458.0		100.0	
2	7	6.428	6.428	0.000	66036976	485.2	59.8- 119.8	120.8	
2	8	6.873	6.873	0.000	136044677	500.7	166.0- 226.0	248.9	
2	9	7.090	7.091	-0.001	82698861	495.3	90.8- 150.8	151.3	
2	10	7.539	7.538	0.001	42283423	476.2	38.9- 98.9	77.4	
			Average of Peak Amounts =			483.1			
						RPD = 0.32			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						962.4			
2						917.4			
						RPD = 4.79			

Report Date: 09-Mar-2011 08:25:55 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155070.D
Injection Date: 03-Mar-2011 15:51:00 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 20
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155071.D
Lims ID: ic std 3262 1000 Client ID:
Inject. Date: 03-Mar-2011 16:05:12 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 18
Sample ID: ic std 3262 1000
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 21
Lims Batch ID: 81563 Lims Sample ID: 21
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:26:00 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:27:19

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	7108591	1002.1		100.0	
1	2	3.558	3.558	0.000	20089252	891.2	25.3- 85.3	282.6	
1	3	4.094	4.094	0.000	11082618	938.6	18.4- 78.4	155.9	
1	4	4.418	4.418	0.000	13371362	1001.3	13.3- 73.3	188.1	
1	5	4.544	4.544	0.000	10680968	937.2	13.9- 73.9	150.3	
			Average of Peak Amounts =			954.1			
2	1	3.416	3.416	0.000	17143568	859.4		100.0	
2	2	3.561	3.561	0.000	49904235	886.0	26.2- 86.2	291.1	
2	3	4.098	4.098	0.000	26533599	794.1	33.0- 93.0	154.8	
2	4	4.459	4.459	0.000	31383348	898.7	19.2- 79.2	183.1	
2	5	4.553	4.553	0.000	25514396	898.1	6.1- 66.1	148.8	
			Average of Peak Amounts =			867.2			
						RPD = 9.54			
10 PCB-1262									
1	1	6.017	6.017	0.000	42305373	933.8		100.0	
1	2	6.348	6.348	0.000	59461654	954.9	69.3- 129.3	140.6	
1	3	6.786	6.786	0.000	113262636	1006.3	165.2- 225.2	267.7	
1	4	7.076	7.076	0.000	82140660	984.5	114.1- 174.1	194.2	
1	5	7.475	7.475	0.000	35600050	977.6	34.4- 94.4	84.2	
			Average of Peak Amounts =			971.4			
2	6	6.125	6.125	0.000	108781597	911.5		100.0	
2	7	6.428	6.428	0.000	132620275	974.4	59.8- 119.8	121.9	
2	8	6.873	6.873	0.000	274475264	1010.1	166.0- 226.0	252.3	
2	9	7.091	7.091	0.000	166638734	998.1	90.8- 150.8	153.2	
2	10	7.538	7.538	0.000	84500864	951.7	38.9- 98.9	77.7	
			Average of Peak Amounts =			969.2			
						RPD = 0.23			

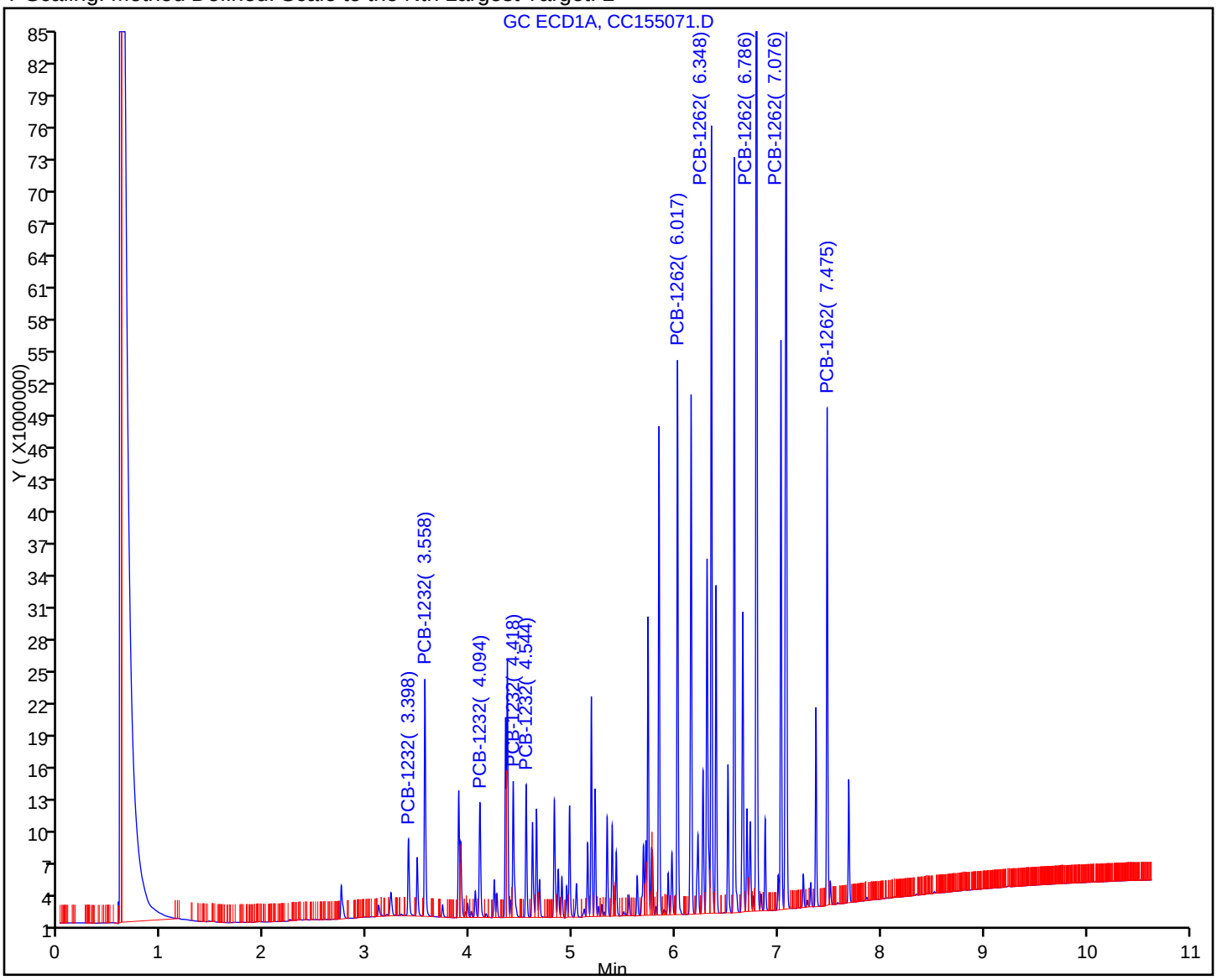
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						1925.5			
2						1836.4			
						RPD = 4.74			

Report Date: 09-Mar-2011 08:26:00 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155071.D

Injection Date:	03-Mar-2011 16:05:12	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	21
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 14:54 Calibration End Date: 03/03/2011 16:05 Calibration ID: 7371

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/16	CC155066.D
Level 2	IC 580-81563/17	CC155067.D
Level 3	IC 580-81563/18	CC155068.D
Level 4	IC 580-81563/19	CC155069.D
Level 5	IC 580-81563/20	CC155070.D
Level 6	IC 580-81563/21	CC155071.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1232 Peak 1	3.415	3.416	3.416	3.416	3.416	+++++					3.386 - 3.446	3.416
PCB-1232 Peak 2	3.561	3.562	3.561	3.561	3.561	3.561					3.531 - 3.591	3.561
PCB-1232 Peak 3	4.099	4.098	4.098	4.098	4.100	4.098					4.068 - 4.128	4.099
PCB-1232 Peak 4	4.459	4.459	4.459	4.460	4.460	4.459					4.429 - 4.489	4.459
PCB-1232 Peak 5	4.554	4.554	4.553	4.553	4.554	4.553					4.523 - 4.583	4.554
PCB-1262 Peak 1	6.125	6.125	6.125	6.124	6.125	6.125					6.095 - 6.155	6.125
PCB-1262 Peak 2	6.428	6.428	6.428	6.427	6.428	6.428					6.398 - 6.458	6.428
PCB-1262 Peak 3	6.874	6.873	6.873	6.872	6.873	6.873					6.843 - 6.903	6.873
PCB-1262 Peak 4	7.092	7.091	7.091	7.090	7.090	7.091					7.061 - 7.121	7.091
PCB-1262 Peak 5	7.539	7.538	7.539	7.538	7.539	7.538					7.508 - 7.568	7.539

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 14:54 Calibration End Date: 03/03/2011 16:05 Calibration ID: 7371

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/16	CC155066.D
Level 2	IC 580-81563/17	CC155067.D
Level 3	IC 580-81563/18	CC155068.D
Level 4	IC 580-81563/19	CC155069.D
Level 5	IC 580-81563/20	CC155070.D
Level 6	IC 580-81563/21	CC155071.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1232 Peak 1	14430 16856	26515 +++++	19605	22334	Ave		19948.0480				24.0	*	20.0			
PCB-1232 Peak 2	61663 50136	57868 49904	58197	60200	Ave		56327.8732				9.0		20.0			
PCB-1232 Peak 3	43216 26688	37870 26534	34927	31247	Ave		33413.5835				20.0		20.0			
PCB-1232 Peak 4	37830 31499	33996 31383	37314	37507	Ave		34921.6183				8.7		20.0			
PCB-1232 Peak 5	30679 25790	28878 25514	29351	30244	Ave		28409.4870				7.8		20.0			
PCB-1262 Peak 1	139747 108231	112083 107705	123195	125070	Ave		119338.475				10.0		20.0			
PCB-1262 Peak 2	137613 130766	125377 131307	143639	147901	Ave		136100.660				6.3		20.0			
PCB-1262 Peak 3	266357 269395	244635 271758	277435	300809	Ave		271731.595				6.7		20.0			
PCB-1262 Peak 4	163725 163760	153596 164989	169890	185777	Ave		166956.245				6.4		20.0			
PCB-1262 Peak 5	95547 83730	86140 83664	89078	94603	Ave		88793.6881				5.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 14:54 Calibration End Date: 03/03/2011 16:05 Calibration ID: 7371

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/16	CC155066.D
Level 2	IC 580-81563/17	CC155067.D
Level 3	IC 580-81563/18	CC155068.D
Level 4	IC 580-81563/19	CC155069.D
Level 5	IC 580-81563/20	CC155070.D
Level 6	IC 580-81563/21	CC155071.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Ave	144301 +++++	530307	980225	2233436	8427965	10.0 +++++	20.0	50.0	100	500
PCB-1232 Peak 2	Ave	616628 49904235	1157356	2909839	6019978	25067922	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 3	Ave	432158 26533599	757399	1746357	3124735	13343831	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 4	Ave	378300 31383348	679914	1865723	3750699	15749606	10.0 1000	20.0	50.0	100	500
PCB-1232 Peak 5	Ave	306793 25514396	577558	1467544	3024397	12895238	10.0 1000	20.0	50.0	100	500
PCB-1262 Peak 1	Ave	1411440 108781597	2264086	6221354	12632040	54656891	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 2	Ave	1389895 132620275	2532620	7253759	14938009	66036976	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 3	Ave	2690205 274475264	4941635	14010456	30381748	136044677	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 4	Ave	1653625 166638734	3102638	8579439	18763521	82698861	10.1 1010	20.2	50.5	101	505
PCB-1262 Peak 5	Ave	965020 84500864	1740032	4498457	9554930	42283423	10.1 1010	20.2	50.5	101	505

Curve Type Legend:
Ave = Average

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155066.D
Lims ID: ic std 3262 10 Client ID:
Inject. Date: 03-Mar-2011 14:54:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 13
Sample ID: ic std 3262 10
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 16
Lims Batch ID: 81563 Lims Sample ID: 16
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:33 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 09-Mar-2011 08:25:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.399	3.398	0.001	89940	10.0		100.0	
1	2	3.559	3.558	0.001	247232	11.0	25.3- 85.3	274.9	
1	3	4.095	4.094	0.001	116467	9.86	18.4- 78.4	129.5	
1	4	4.419	4.418	0.001	122525	9.18	13.3- 73.3	136.2	
1	5	4.544	4.544	0.000	126294	11.1	13.9- 73.9	140.4	
			Average of Peak Amounts =			10.2			
2	1	3.415	3.416	-0.001	144301	7.23		100.0	
2	2	3.561	3.561	0.000	616628	10.9	26.2- 86.2	427.3	
2	3	4.099	4.098	0.001	432158	12.9	33.0- 93.0	299.5	
2	4	4.459	4.459	0.000	378300	10.8	19.2- 79.2	262.2	
2	5	4.554	4.553	0.001	306793	10.8	6.1- 66.1	212.6	
			Average of Peak Amounts =			10.5			
						RPD = 3.19			
10 PCB-1262									
1	1	6.019	6.017	0.002	493966	10.9		100.0	
1	2	6.349	6.348	0.001	660740	10.6	69.3- 129.3	133.8	
1	3	6.787	6.786	0.001	1129356	10.1	165.2- 225.2	228.6	
1	4	7.076	7.076	0.000	862343	10.3	114.1- 174.1	174.6	
1	5	7.475	7.475	0.000	374355	10.3	34.4- 94.4	75.8	
			Average of Peak Amounts =			10.5			
2	6	6.125	6.125	0.000	1411440	11.8		100.0	
2	7	6.428	6.428	0.000	1389895	10.2	59.8- 119.8	98.5	
2	8	6.874	6.873	0.001	2690205	9.90	166.0- 226.0	190.6	
2	9	7.092	7.091	0.001	1653625	9.90	90.8- 150.8	117.2	
2	10	7.539	7.538	0.001	965020	10.9	38.9- 98.9	68.4	
			Average of Peak Amounts =			10.5			
						RPD = 0.87			

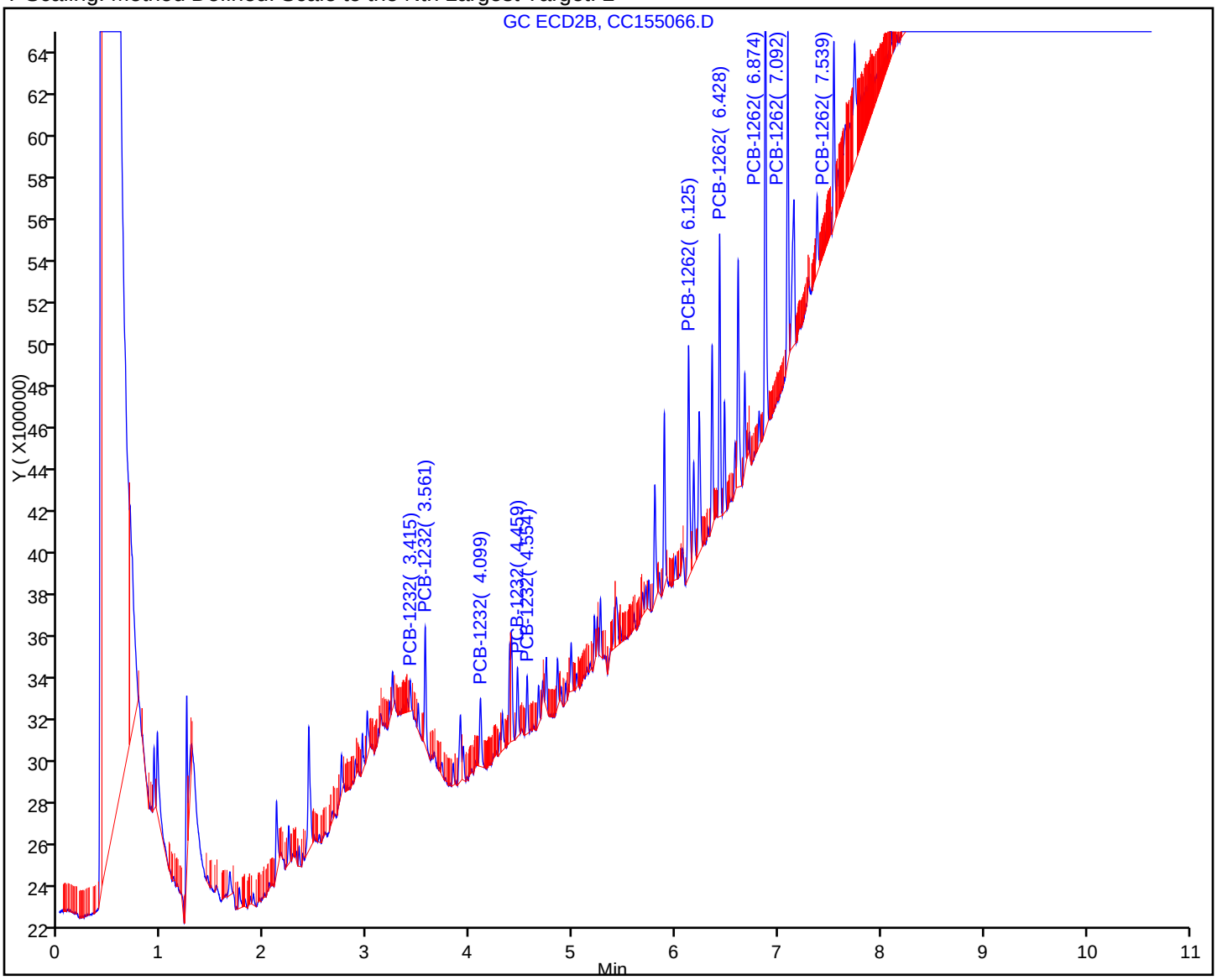
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						20.7			
2						21.1			
						RPD = 2.02			

Report Date: 09-Mar-2011 08:25:34 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155066.D

Injection Date:	03-Mar-2011 14:54:29	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	16
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155067.D
Lims ID: ic std 3262 20 Client ID:
Inject. Date: 03-Mar-2011 15:08:37 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 14
Sample ID: ic std 3262 20
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 17
Lims Batch ID: 81563 Lims Sample ID: 17
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:39 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:24:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.399	3.398	0.001	132217	16.0		100.0	
1	2	3.558	3.558	0.000	445304	19.8	25.3- 85.3	336.8	
1	3	4.095	4.094	0.001	219866	18.6	18.4- 78.4	166.3	
1	4	4.419	4.418	0.001	263571	19.7	13.3- 73.3	199.3	
1	5	4.544	4.544	0.000	211193	18.5	13.9- 73.9	159.7	
			Average of Peak Amounts =			18.5			
2	1	3.416	3.416	0.000	530307	26.6		100.0	
2	2	3.562	3.561	0.001	1157356	20.5	26.2- 86.2	218.2	
2	3	4.098	4.098	0.000	757399	22.7	33.0- 93.0	142.8	
2	4	4.459	4.459	0.000	679914	19.5	19.2- 79.2	128.2	
2	5	4.554	4.553	0.001	577558	20.3	6.1- 66.1	108.9	
			Average of Peak Amounts =			21.9			
						RPD = 16.79			
10 PCB-1262									
1	1	6.018	6.017	0.001	863838	19.1		100.0	
1	2	6.348	6.348	0.000	1181860	19.0	69.3- 129.3	136.8	
1	3	6.787	6.786	0.001	2036760	18.2	165.2- 225.2	235.8	
1	4	7.076	7.076	0.000	1548855	18.6	114.1- 174.1	179.3	
1	5	7.475	7.475	0.000	665777	18.3	34.4- 94.4	77.1	
			Average of Peak Amounts =			18.6			
2	6	6.125	6.125	0.000	2264086	19.0		100.0	
2	7	6.428	6.428	0.000	2532620	18.6	59.8- 119.8	111.9	
2	8	6.873	6.873	0.000	4941635	18.2	166.0- 226.0	218.3	
2	9	7.091	7.091	0.000	3102638	18.6	90.8- 150.8	137.0	
2	10	7.538	7.538	0.000	1740032	19.6	38.9- 98.9	76.9	
			Average of Peak Amounts =			18.8			
						RPD = 0.93			

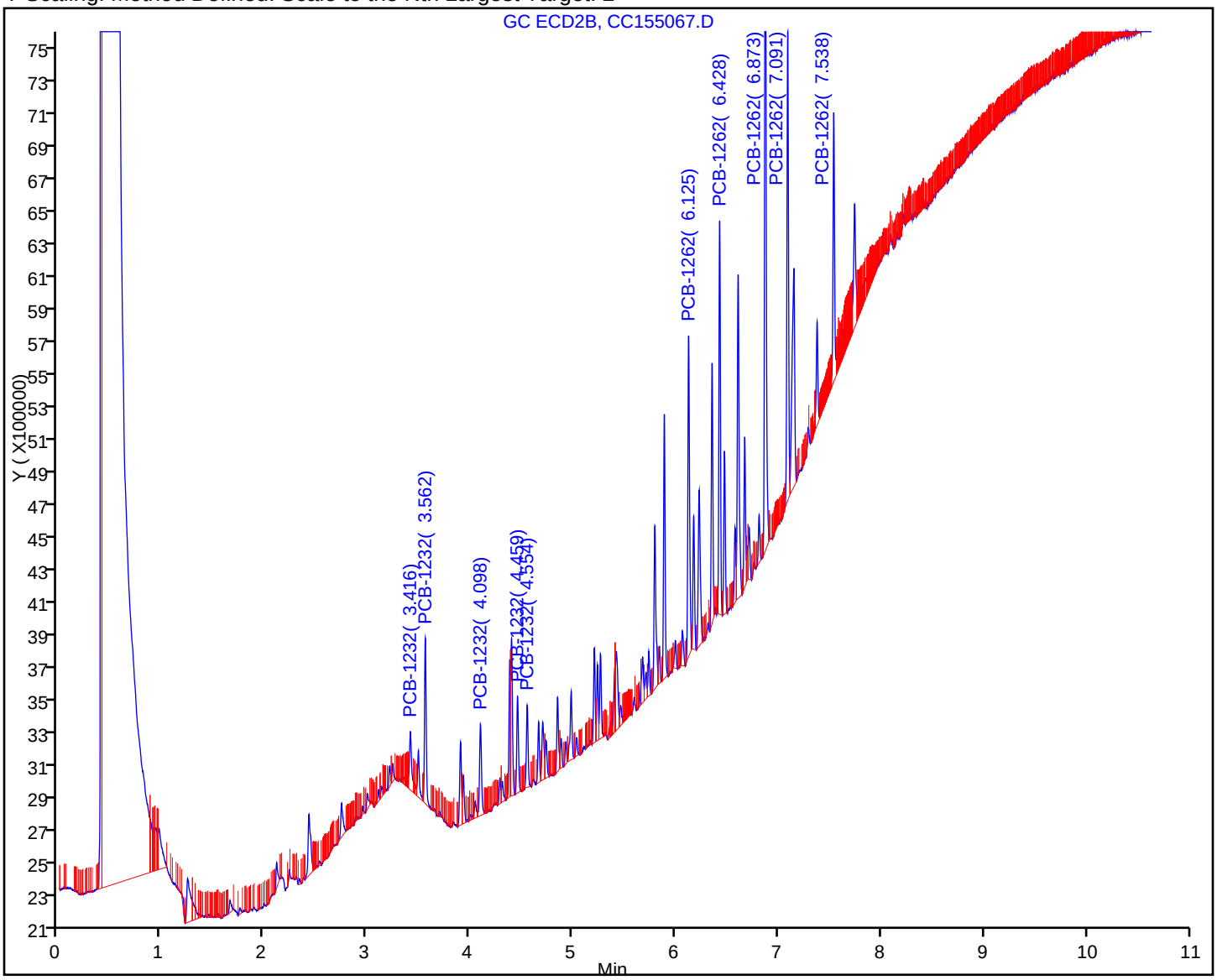
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						37.1			
2						40.7			
						RPD = 9.17			

Report Date: 09-Mar-2011 08:25:39 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155067.D

Injection Date:	03-Mar-2011 15:08:37	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	17
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155068.D
Lims ID: ic std 3262 50 Client ID:
Inject. Date: 03-Mar-2011 15:22:43 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 15
Sample ID: ic std 3262 50
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 18
Lims Batch ID: 81563 Lims Sample ID: 18
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:44 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:42:41

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	413212	55.7		100.0	
1	2	3.558	3.558	0.000	1191850	52.9	25.3- 85.3	288.4	
1	3	4.094	4.094	0.000	613961	52.0	18.4- 78.4	148.6	
1	4	4.419	4.418	0.001	612759	45.9	13.3- 73.3	148.3	
1	5	4.544	4.544	0.000	573152	50.3	13.9- 73.9	138.7	
			Average of Peak Amounts =			51.3			
2	1	3.416	3.416	0.000	980225	49.1		100.0	
2	2	3.561	3.561	0.000	2909839	51.7	26.2- 86.2	296.9	
2	3	4.098	4.098	0.000	1746357	52.3	33.0- 93.0	178.2	
2	4	4.459	4.459	0.000	1865723	53.4	19.2- 79.2	190.3	
2	5	4.553	4.553	0.000	1467544	51.7	6.1- 66.1	149.7	
			Average of Peak Amounts =			51.6			
						RPD = 0.54			
10 PCB-1262									
1	1	6.018	6.017	0.001	2384080	52.6		100.0	
1	2	6.348	6.348	0.000	3230849	51.9	69.3- 129.3	135.5	
1	3	6.787	6.786	0.001	5713150	50.8	165.2- 225.2	239.6	
1	4	7.076	7.076	0.000	4263688	51.1	114.1- 174.1	178.8	
1	5	7.475	7.475	0.000	1876459	51.5	34.4- 94.4	78.7	
			Average of Peak Amounts =			51.6			
2	6	6.125	6.125	0.000	6221354	52.1		100.0	
2	7	6.428	6.428	0.000	7253759	53.3	59.8- 119.8	116.6	
2	8	6.873	6.873	0.000	14010456	51.6	166.0- 226.0	225.2	
2	9	7.091	7.091	0.000	8579439	51.4	90.8- 150.8	137.9	
2	10	7.539	7.538	0.001	4498457	50.7	38.9- 98.9	72.3	
			Average of Peak Amounts =			51.8			
						RPD = 0.41			

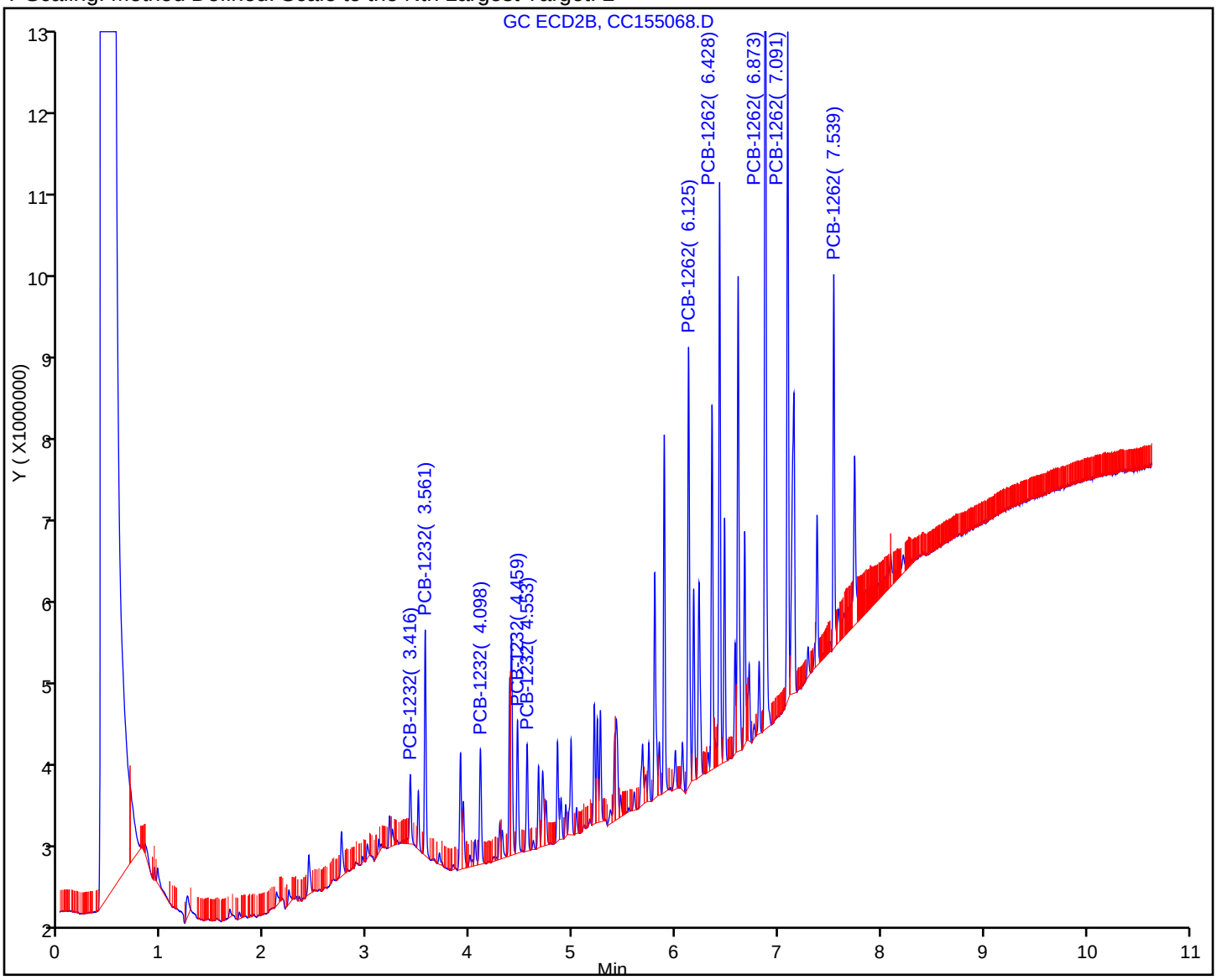
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						102.9			
2						103.4			
						RPD = 0.48			

Report Date: 09-Mar-2011 08:25:44 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155068.D

Injection Date:	03-Mar-2011 15:22:43	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	18
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155069.D
Lims ID: ic std 3262 100 Client ID:
Inject. Date: 03-Mar-2011 15:36:50 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 16
Sample ID: ic std 3262 100
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 19
Lims Batch ID: 81563 Lims Sample ID: 19
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:49 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:25:25

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	808088	111.5		100.0	
1	2	3.558	3.558	0.000	2381064	105.6	25.3- 85.3	294.7	
1	3	4.094	4.094	0.000	1361478	115.3	18.4- 78.4	168.5	
1	4	4.418	4.418	0.000	1550968	116.1	13.3- 73.3	191.9	
1	5	4.543	4.544	-0.001	1242668	109.0	13.9- 73.9	153.8	
			Average of Peak Amounts =			111.5			
2	1	3.416	3.416	0.000	2233436	112.0		100.0	
2	2	3.561	3.561	0.000	6019978	106.9	26.2- 86.2	269.5	
2	3	4.098	4.098	0.000	3124735	93.5	33.0- 93.0	139.9	
2	4	4.460	4.459	0.001	3750699	107.4	19.2- 79.2	167.9	
2	5	4.553	4.553	0.000	3024397	106.5	6.1- 66.1	135.4	
			Average of Peak Amounts =			105.2			
						RPD = 5.80			
10 PCB-1262									
1	1	6.018	6.017	0.001	4949416	109.2		100.0	
1	2	6.347	6.348	-0.001	6866887	110.3	69.3- 129.3	138.7	
1	3	6.786	6.786	0.000	12541121	111.5	165.2- 225.2	253.4	
1	4	7.075	7.076	-0.001	9289310	111.3	114.1- 174.1	187.7	
1	5	7.474	7.475	-0.001	4128457	113.4	34.4- 94.4	83.4	
			Average of Peak Amounts =			111.1			
2	6	6.124	6.125	-0.001	12632040	105.9		100.0	
2	7	6.427	6.428	-0.001	14938009	109.8	59.8- 119.8	118.3	
2	8	6.872	6.873	-0.001	30381748	111.8	166.0- 226.0	240.5	
2	9	7.090	7.091	-0.001	18763521	112.4	90.8- 150.8	148.5	
2	10	7.538	7.538	0.000	9554930	107.6	38.9- 98.9	75.6	
			Average of Peak Amounts =			109.5			
						RPD = 1.51			

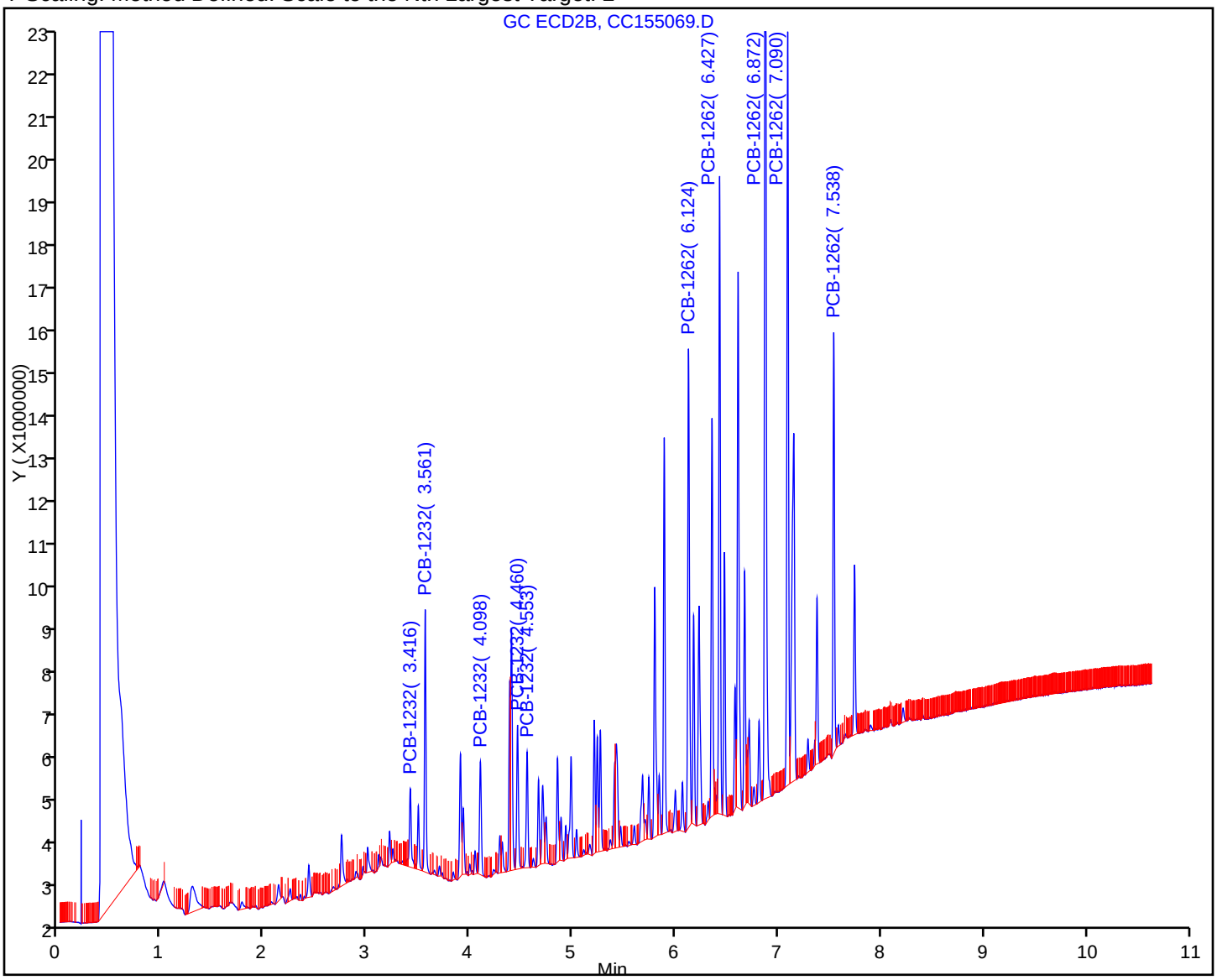
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						222.7			
2						214.7			
						RPD = 3.63			

Report Date: 09-Mar-2011 08:25:50 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155069.D

Injection Date:	03-Mar-2011 15:36:50	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	19
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155070.D
Lims ID: ic std 3262 500 Client ID:
Inject. Date: 03-Mar-2011 15:51:00 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 17
Sample ID: ic std 3262 500
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 20
Lims Batch ID: 81563 Lims Sample ID: 20
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

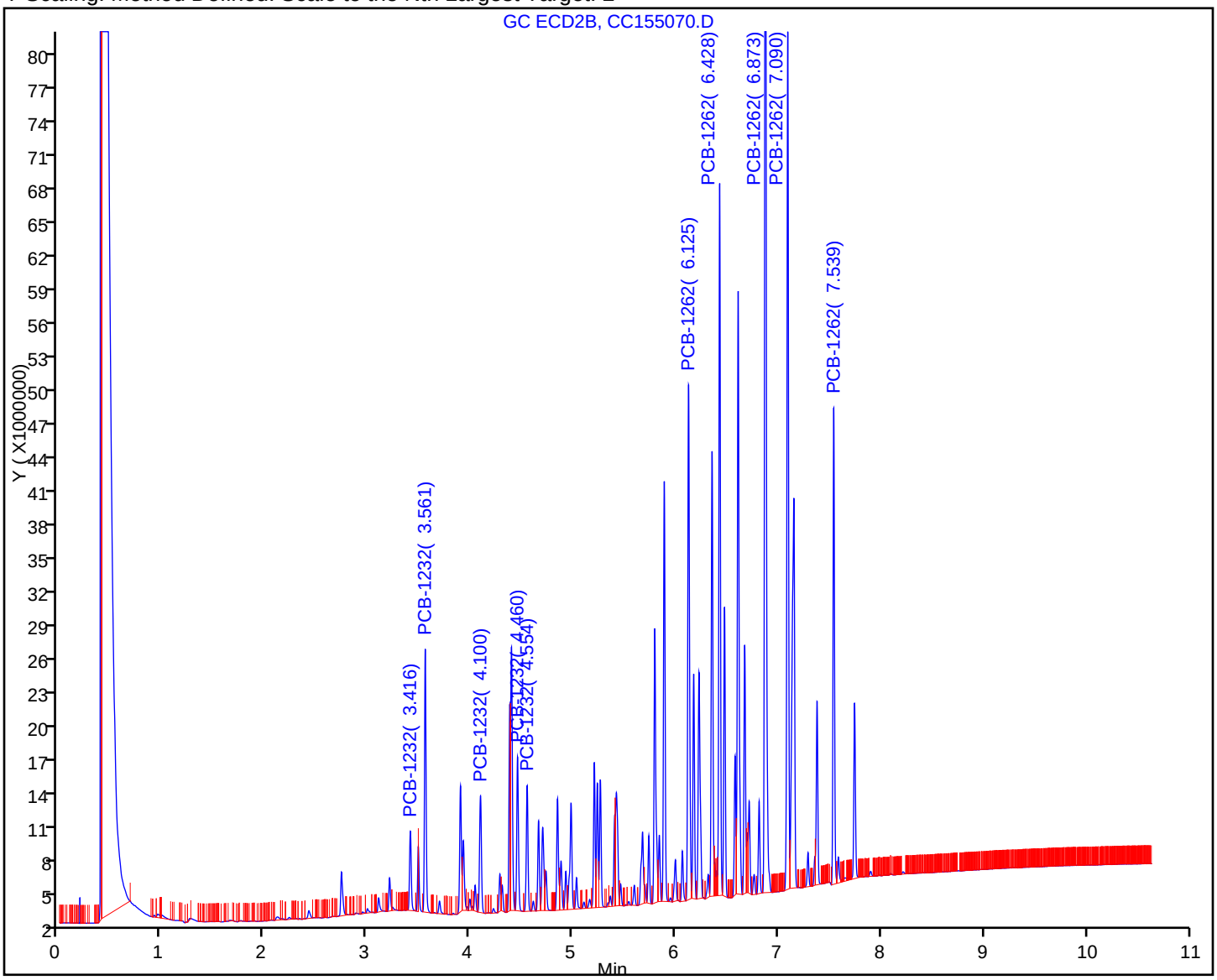
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:25:55 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:26:16

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	3448519	484.7		100.0	
1	2	3.558	3.558	0.000	10263028	455.3	25.3- 85.3	297.6	
1	3	4.095	4.094	0.001	5614150	475.5	18.4- 78.4	162.8	
1	4	4.419	4.418	0.001	6777377	507.5	13.3- 73.3	196.5	
1	5	4.544	4.544	0.000	5309482	465.9	13.9- 73.9	154.0	
			Average of Peak Amounts =			477.8			
2	1	3.416	3.416	0.000	8427965	422.5		100.0	
2	2	3.561	3.561	0.000	25067922	445.0	26.2- 86.2	297.4	
2	3	4.100	4.098	0.002	13343831	399.4	33.0- 93.0	158.3	
2	4	4.460	4.459	0.001	15749606	451.0	19.2- 79.2	186.9	
2	5	4.554	4.553	0.001	12895238	453.9	6.1- 66.1	153.0	
			Average of Peak Amounts =			434.4			
						RPD = 9.52			
10 PCB-1262									
1	1	6.018	6.017	0.001	21240582	468.8		100.0	
1	2	6.347	6.348	-0.001	29723437	477.3	69.3- 129.3	139.9	
1	3	6.785	6.786	-0.001	56256259	499.9	165.2- 225.2	264.9	
1	4	7.075	7.076	-0.001	40808780	489.1	114.1- 174.1	192.1	
1	5	7.474	7.475	-0.001	17773898	488.1	34.4- 94.4	83.7	
			Average of Peak Amounts =			484.6			
2	6	6.125	6.125	0.000	54656891	458.0		100.0	
2	7	6.428	6.428	0.000	66036976	485.2	59.8- 119.8	120.8	
2	8	6.873	6.873	0.000	136044677	500.7	166.0- 226.0	248.9	
2	9	7.090	7.091	-0.001	82698861	495.3	90.8- 150.8	151.3	
2	10	7.539	7.538	0.001	42283423	476.2	38.9- 98.9	77.4	
			Average of Peak Amounts =			483.1			
						RPD = 0.32			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						962.4			
2						917.4			
						RPD = 4.79			

Report Date: 09-Mar-2011 08:25:55 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155070.D
Injection Date: 03-Mar-2011 15:51:00 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 20
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155071.D
Lims ID: ic std 3262 1000 Client ID:
Inject. Date: 03-Mar-2011 16:05:12 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 18
Sample ID: ic std 3262 1000
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 21
Lims Batch ID: 81563 Lims Sample ID: 21
Sublist: chrom-8082_TAC042*sub2
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:26:00 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:27:19

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
4 PCB-1232									
1	1	3.398	3.398	0.000	7108591	1002.1		100.0	
1	2	3.558	3.558	0.000	20089252	891.2	25.3- 85.3	282.6	
1	3	4.094	4.094	0.000	11082618	938.6	18.4- 78.4	155.9	
1	4	4.418	4.418	0.000	13371362	1001.3	13.3- 73.3	188.1	
1	5	4.544	4.544	0.000	10680968	937.2	13.9- 73.9	150.3	
			Average of Peak Amounts =			954.1			
2	1	3.416	3.416	0.000	17143568	859.4		100.0	
2	2	3.561	3.561	0.000	49904235	886.0	26.2- 86.2	291.1	
2	3	4.098	4.098	0.000	26533599	794.1	33.0- 93.0	154.8	
2	4	4.459	4.459	0.000	31383348	898.7	19.2- 79.2	183.1	
2	5	4.553	4.553	0.000	25514396	898.1	6.1- 66.1	148.8	
			Average of Peak Amounts =			867.2			
						RPD = 9.54			
10 PCB-1262									
1	1	6.017	6.017	0.000	42305373	933.8		100.0	
1	2	6.348	6.348	0.000	59461654	954.9	69.3- 129.3	140.6	
1	3	6.786	6.786	0.000	113262636	1006.3	165.2- 225.2	267.7	
1	4	7.076	7.076	0.000	82140660	984.5	114.1- 174.1	194.2	
1	5	7.475	7.475	0.000	35600050	977.6	34.4- 94.4	84.2	
			Average of Peak Amounts =			971.4			
2	6	6.125	6.125	0.000	108781597	911.5		100.0	
2	7	6.428	6.428	0.000	132620275	974.4	59.8- 119.8	121.9	
2	8	6.873	6.873	0.000	274475264	1010.1	166.0- 226.0	252.3	
2	9	7.091	7.091	0.000	166638734	998.1	90.8- 150.8	153.2	
2	10	7.538	7.538	0.000	84500864	951.7	38.9- 98.9	77.7	
			Average of Peak Amounts =			969.2			
						RPD = 0.23			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						1925.5			
2						1836.4			
						RPD = 4.74			

Report Date: 09-Mar-2011 08:26:01 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155071.D

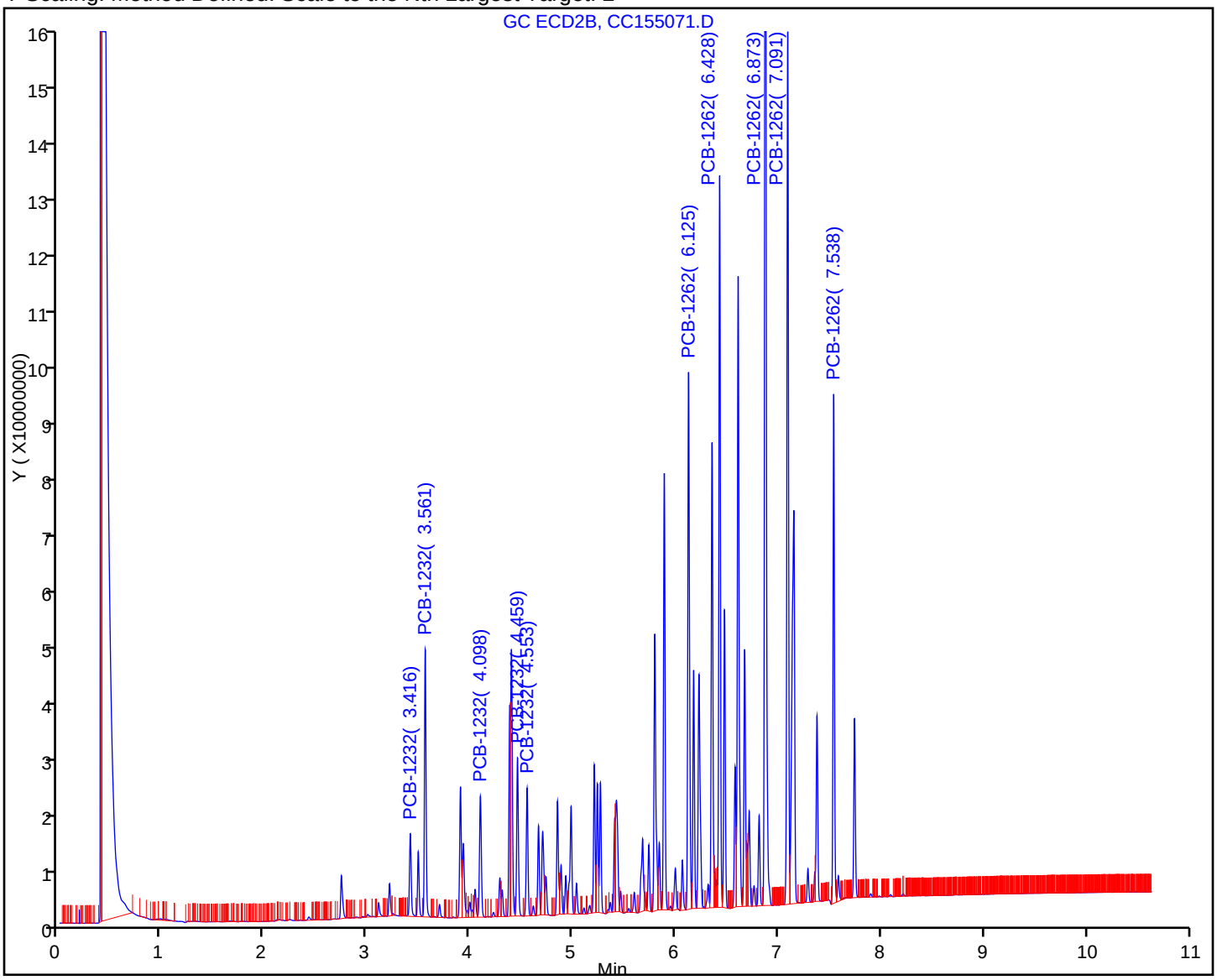
Injection Date: 03-Mar-2011 16:05:12 Limit Group: 8082 PCBs

Client ID: Instrument ID: TAC042

Lims Batch ID: 81563 Lims Sample ID: 21

Operator ID: mam Injection Vol: 1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 16:34 Calibration End Date: 03/03/2011 17:45 Calibration ID: 7383

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/23	CC155073.D
Level 2	IC 580-81563/24	CC155074.D
Level 3	IC 580-81563/25	CC155075.D
Level 4	IC 580-81563/26	CC155076.D
Level 5	IC 580-81563/27	CC155077.D
Level 6	IC 580-81563/28	CC155078.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	3.557	3.557	3.558	3.558	3.557	3.558					3.528 - 3.588	3.558
PCB-1242 Peak 2	4.094	4.094	4.094	4.094	4.093	4.094					4.064 - 4.124	4.094
PCB-1242 Peak 3	4.545	4.543	4.543	4.544	4.543	4.544					4.514 - 4.574	4.544
PCB-1242 Peak 4	4.967	4.967	4.966	4.967	4.966	4.967					4.937 - 4.997	4.967
PCB-1242 Peak 5	5.178	5.178	5.178	5.178	5.178	5.178					5.148 - 5.208	5.178

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 16:34 Calibration End Date: 03/03/2011 17:45 Calibration ID: 7383

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/23	CC155073.D
Level 2	IC 580-81563/24	CC155074.D
Level 3	IC 580-81563/25	CC155075.D
Level 4	IC 580-81563/26	CC155076.D
Level 5	IC 580-81563/27	CC155077.D
Level 6	IC 580-81563/28	CC155078.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	24308 14333	16052 13349	16605	16565	Lin1	105659.592	13650.5990							0.9970		0.9900
PCB-1242 Peak 2	20935 19383	22369 18037	22395	23318	Ave		21072.9797				9.6		20.0			
PCB-1242 Peak 3	28793 19316	20849 18101	20892	21469	Ave		21570.0441				17.0		20.0			
PCB-1242 Peak 4	14227 17216	18092 15937	18376	19054	Ave		17150.2575				10.0		20.0			
PCB-1242 Peak 5	22163 23156	24078 21512	24745	25620	Ave		23545.8460				6.6		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 16:34 Calibration End Date: 03/03/2011 17:45 Calibration ID: 7383

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/23	CC155073.D
Level 2	IC 580-81563/24	CC155074.D
Level 3	IC 580-81563/25	CC155075.D
Level 4	IC 580-81563/26	CC155076.D
Level 5	IC 580-81563/27	CC155077.D
Level 6	IC 580-81563/28	CC155078.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Lin1	243422 13367210	321499	831395	1658827	7176717	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 2	Ave	209645 18062453	448015	1121312	2335098	9704984	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 3	Ave	288332 18126751	417565	1046064	2149917	9671401	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 4	Ave	142466 15959561	362345	920085	1908022	8620138	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 5	Ave	221941 21542605	482234	1238963	2565635	11594423	10.0 1001	20.0	50.1	100	501

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155073.D		
Lims ID:	ic std 42 10	Client ID:	
Inject. Date:	03-Mar-2011 16:34:27	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	19
Sample ID:	ic std 42 10		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	23
Lims Batch ID:	81563	Lims Sample ID:	23
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:17	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:14

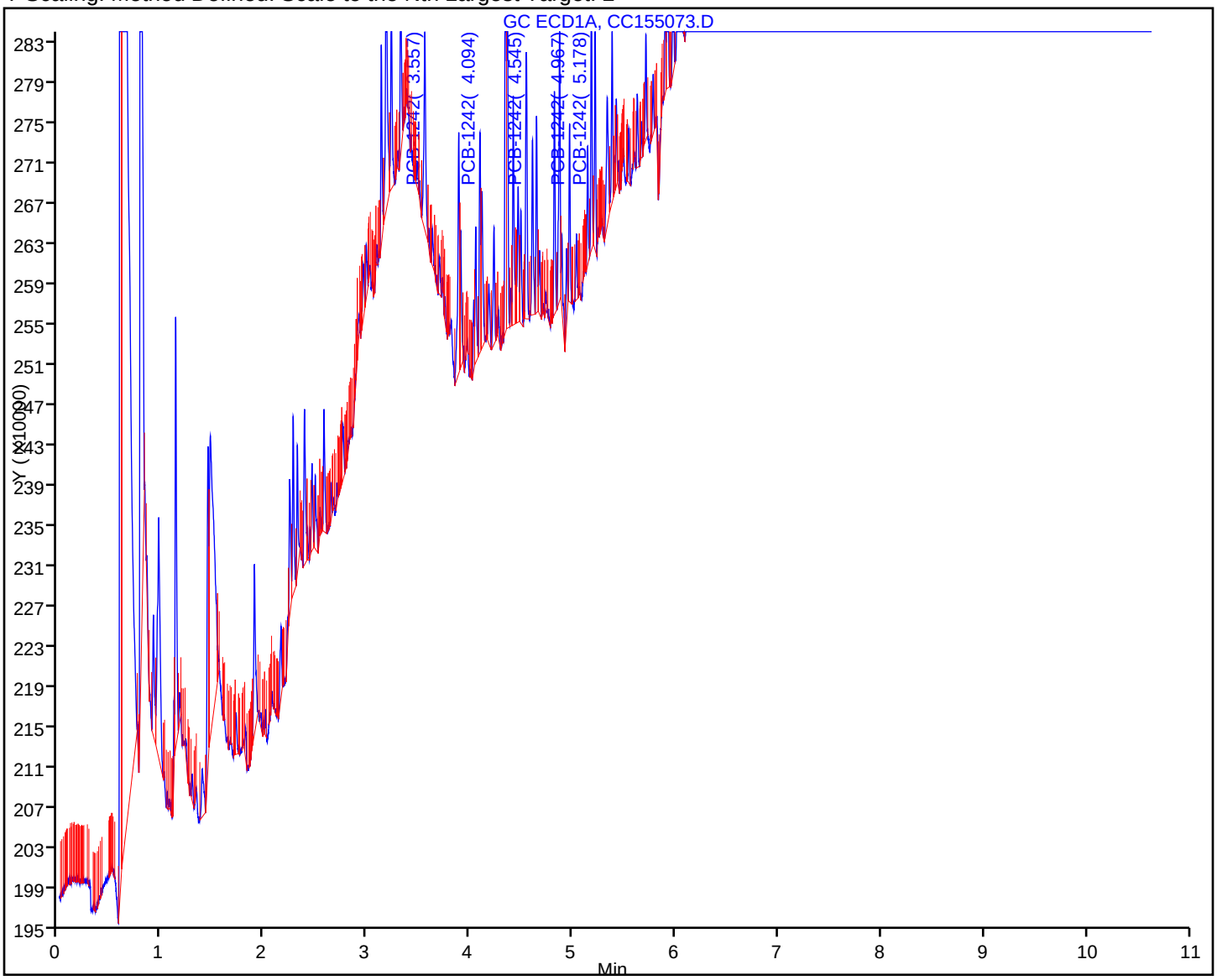
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.557	3.558	-0.001	243422	10.1		100.0	
1	2	4.094	4.094	0.000	209645	9.95	98.2- 158.2	86.1	
1	3	4.545	4.544	0.001	288332	13.4	85.0- 145.0	118.4	
1	4	4.967	4.967	0.000	142466	8.31	102.8- 162.8	58.5	
1	5	5.178	5.178	0.000	221941	9.43	109.0- 169.0	91.2	
			Average of Peak Amounts =			10.2			
2	6	3.560	3.561	-0.001	555225	13.6		100.0	
2	7	4.099	4.098	0.001	728755	12.9	106.5- 166.5	131.3	
2	8	4.459	4.460	-0.001	575936	9.34	128.9- 188.9	103.7	
2	9	4.553	4.553	0.000	526758	10.3	94.3- 154.3	94.9	
2	10	5.237	5.237	0.000	498856	10.2	100.7- 160.7	89.8	
			Average of Peak Amounts =			11.2			
						RPD = 9.50			
S 12 Polychlorinated biphenyls, Total									
1						10.2			
2						11.2			
						RPD = 9.50			

Report Date: 08-Mar-2011 13:43:18 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155073.D

Injection Date:	03-Mar-2011 16:34:27	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	23
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155074.D		
Lims ID:	ic std 42 20	Client ID:	
Inject. Date:	03-Mar-2011 16:48:35	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	20
Sample ID:	ic std 42 20		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	24
Lims Batch ID:	81563	Lims Sample ID:	24
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:23	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:25

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.557	3.558	-0.001	321499	15.8		100.0	
1	2	4.094	4.094	0.000	448015	21.3	98.2- 158.2	139.4	
1	3	4.543	4.544	-0.001	417565	19.4	85.0- 145.0	129.9	
1	4	4.967	4.967	0.000	362345	21.1	102.8- 162.8	112.7	
1	5	5.178	5.178	0.000	482234	20.5	109.0- 169.0	150.0	
			Average of Peak Amounts =			19.6			
2	6	3.561	3.561	0.000	811997	19.9		100.0	
2	7	4.098	4.098	0.000	1250545	22.1	106.5- 166.5	154.0	
2	8	4.460	4.460	0.000	1391478	22.6	128.9- 188.9	171.4	
2	9	4.553	4.553	0.000	1244935	24.2	94.3- 154.3	153.3	
2	10	5.237	5.237	0.000	1057046	21.6	100.7- 160.7	130.2	
			Average of Peak Amounts =			22.1			
						RPD = 11.82			
S 12 Polychlorinated biphenyls, Total									
1						19.6			
2						22.1			
						RPD = 11.82			

Report Date: 08-Mar-2011 13:43:23 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155074.D

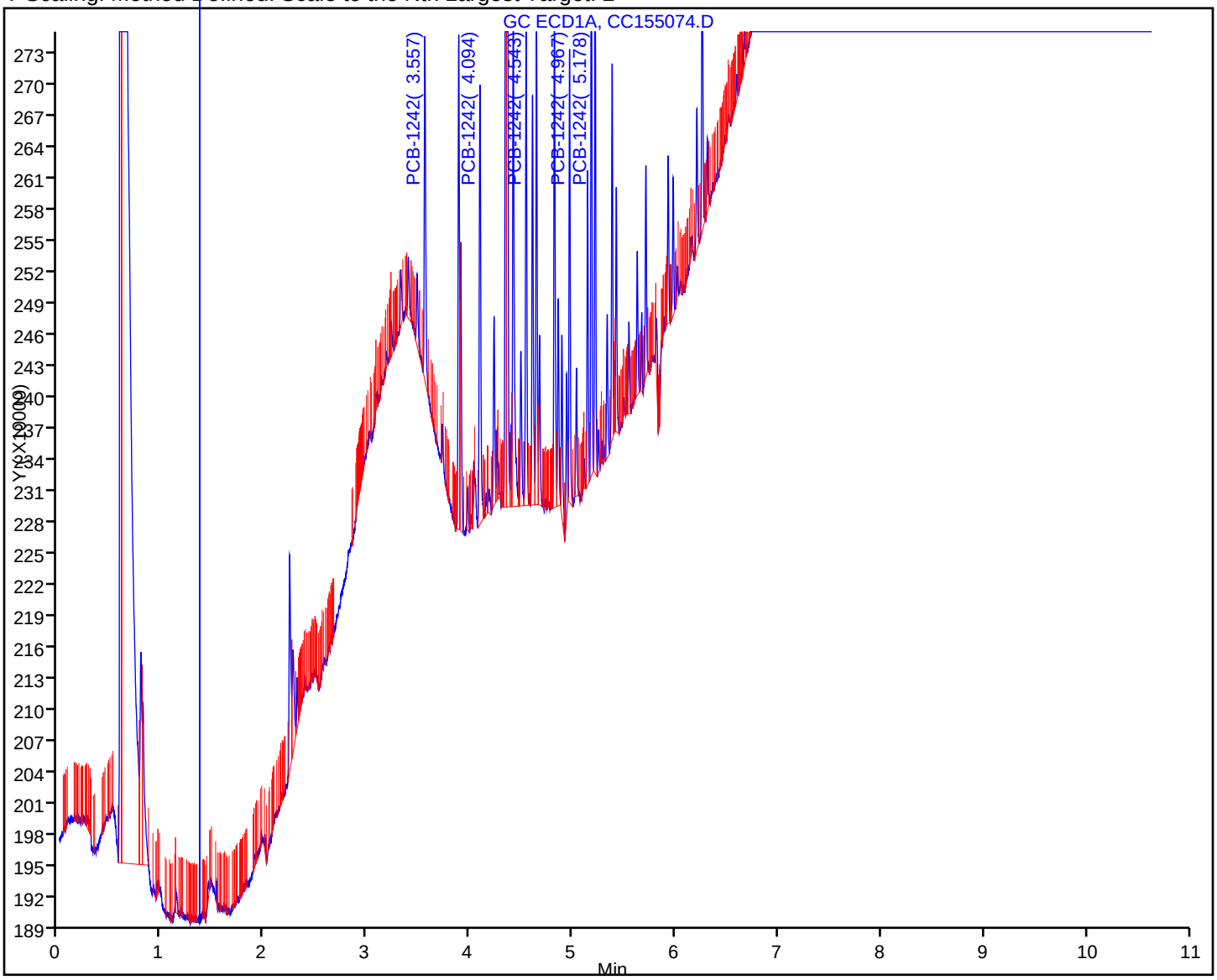
Injection Date: 03-Mar-2011 16:48:35 Limit Group: 8082 PCBs

Client ID: Instrument ID: TAC042

Lims Batch ID: 81563 Lims Sample ID: 24

Operator ID: mam Injection Vol: 1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155075.D		
Lims ID:	ic std 42 50	Client ID:	
Inject. Date:	03-Mar-2011 17:02:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	21
Sample ID:	ic std 42 50		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	25
Lims Batch ID:	81563	Lims Sample ID:	25
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:29	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

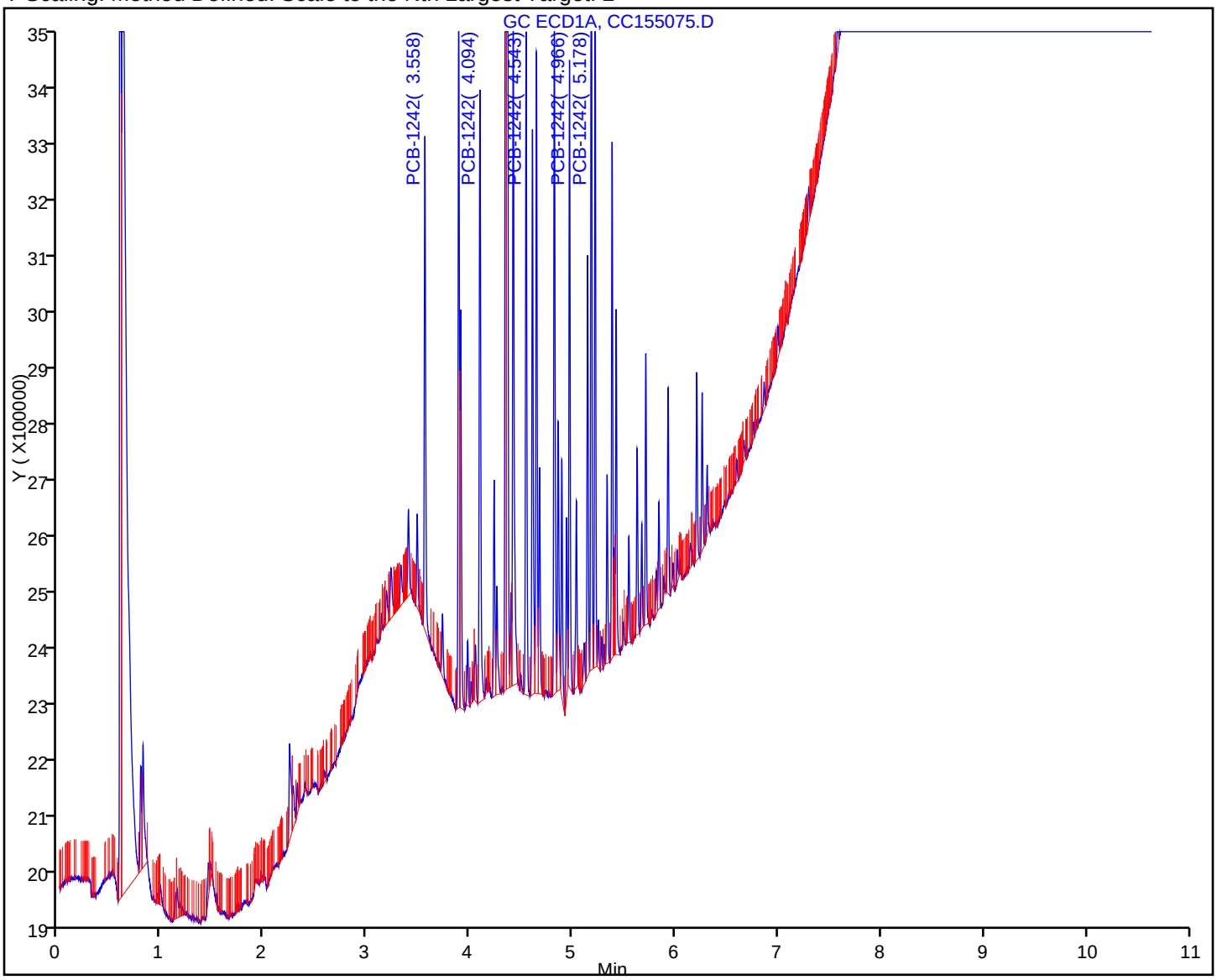
First Level Reviewer: muirm Date: 07-Mar-2011 09:47:36

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.558	3.558	0.000	831395	53.2		100.0	
1	2	4.094	4.094	0.000	1121312	53.2	98.2- 158.2	134.9	
1	3	4.543	4.544	-0.001	1046064	48.5	85.0- 145.0	125.8	
1	4	4.966	4.967	-0.001	920085	53.6	102.8- 162.8	110.7	
1	5	5.178	5.178	0.000	1238963	52.6	109.0- 169.0	149.0	
			Average of Peak Amounts =			52.2			
2	6	3.561	3.561	0.000	2049562	50.2		100.0	
2	7	4.098	4.098	0.000	2920443	51.5	106.5- 166.5	142.5	
2	8	4.460	4.460	0.000	3479660	56.4	128.9- 188.9	169.8	
2	9	4.553	4.553	0.000	2626782	51.2	94.3- 154.3	128.2	
2	10	5.236	5.237	-0.001	2578153	52.7	100.7- 160.7	125.8	
			Average of Peak Amounts =			52.4			
						RPD = 0.32			
S 12 Polychlorinated biphenyls, Total									
1						52.2			
2						52.4			
						RPD = 0.32			

Report Date: 08-Mar-2011 13:43:29 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155075.D		
Injection Date:	03-Mar-2011 17:02:43	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	25
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155076.D		
Lims ID:	ic std 42 100	Client ID:	
Inject. Date:	03-Mar-2011 17:16:57	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	22
Sample ID:	ic std 42 100		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	26
Lims Batch ID:	81563	Lims Sample ID:	26
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:35	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:51

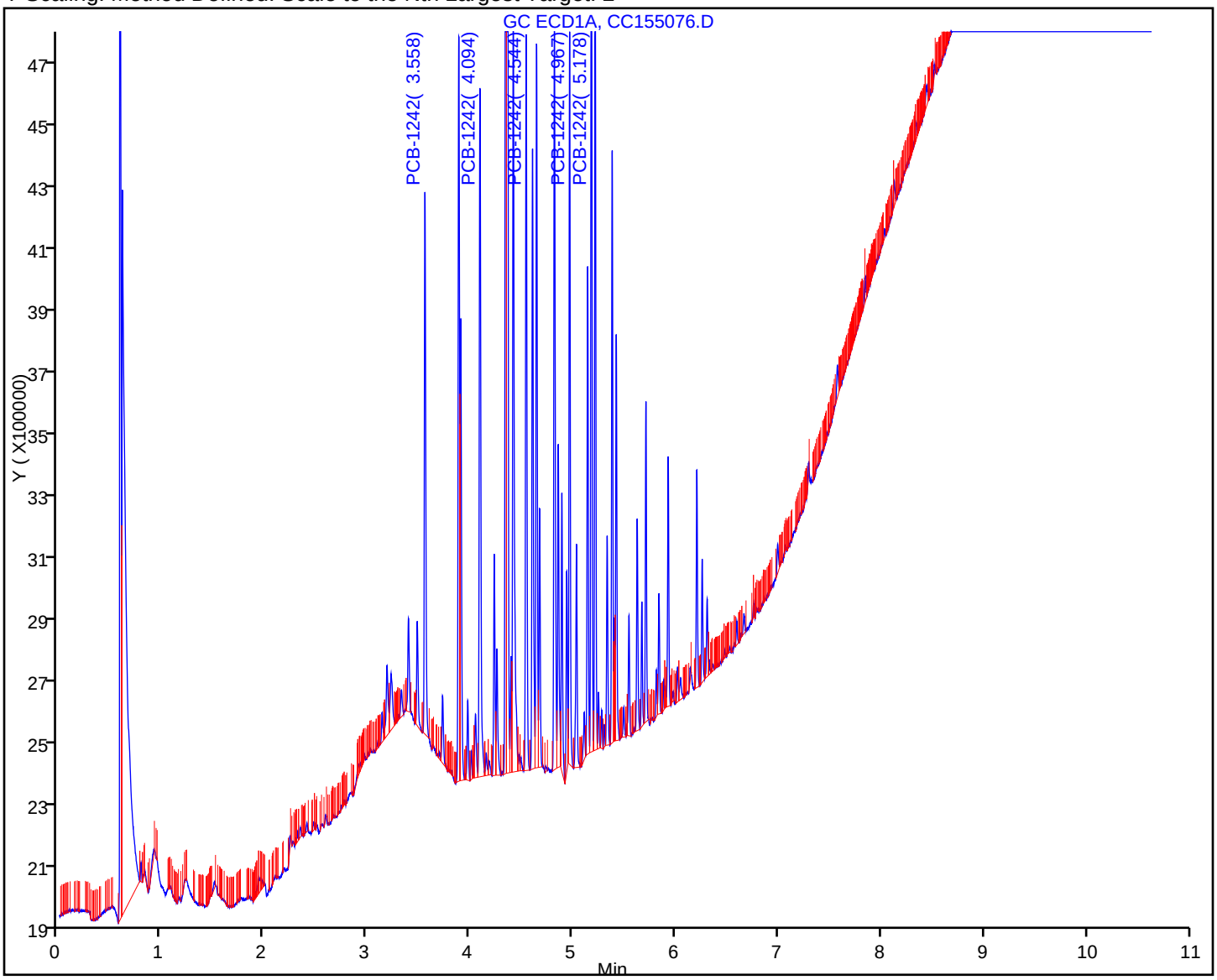
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.558	3.558	0.000	1658827	113.8		100.0	
1	2	4.094	4.094	0.000	2335098	110.8	98.2- 158.2	140.8	
1	3	4.544	4.544	0.000	2149917	99.7	85.0- 145.0	129.6	
1	4	4.967	4.967	0.000	1908022	111.3	102.8- 162.8	115.0	
1	5	5.178	5.178	0.000	2565635	109.0	109.0- 169.0	154.7	
			Average of Peak Amounts =			108.9			
2	6	3.561	3.561	0.000	4145221	101.4		100.0	
2	7	4.098	4.098	0.000	5660754	99.9	106.5- 166.5	136.6	
2	8	4.460	4.460	0.000	6566925	106.5	128.9- 188.9	158.4	
2	9	4.553	4.553	0.000	5142537	100.2	94.3- 154.3	124.1	
2	10	5.237	5.237	0.000	5044825	103.1	100.7- 160.7	121.7	
			Average of Peak Amounts =			102.2			
						RPD = 6.33			
S 12 Polychlorinated biphenyls, Total									
1						108.9			
2						102.2			
						RPD = 6.33			

Report Date: 08-Mar-2011 13:43:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155076.D

Injection Date:	03-Mar-2011 17:16:57	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	26
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155077.D		
Lims ID:	ic std 42 500	Client ID:	
Inject. Date:	03-Mar-2011 17:31:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	23
Sample ID:	ic std 42 500		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	27
Lims Batch ID:	81563	Lims Sample ID:	27
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:41	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:48:02

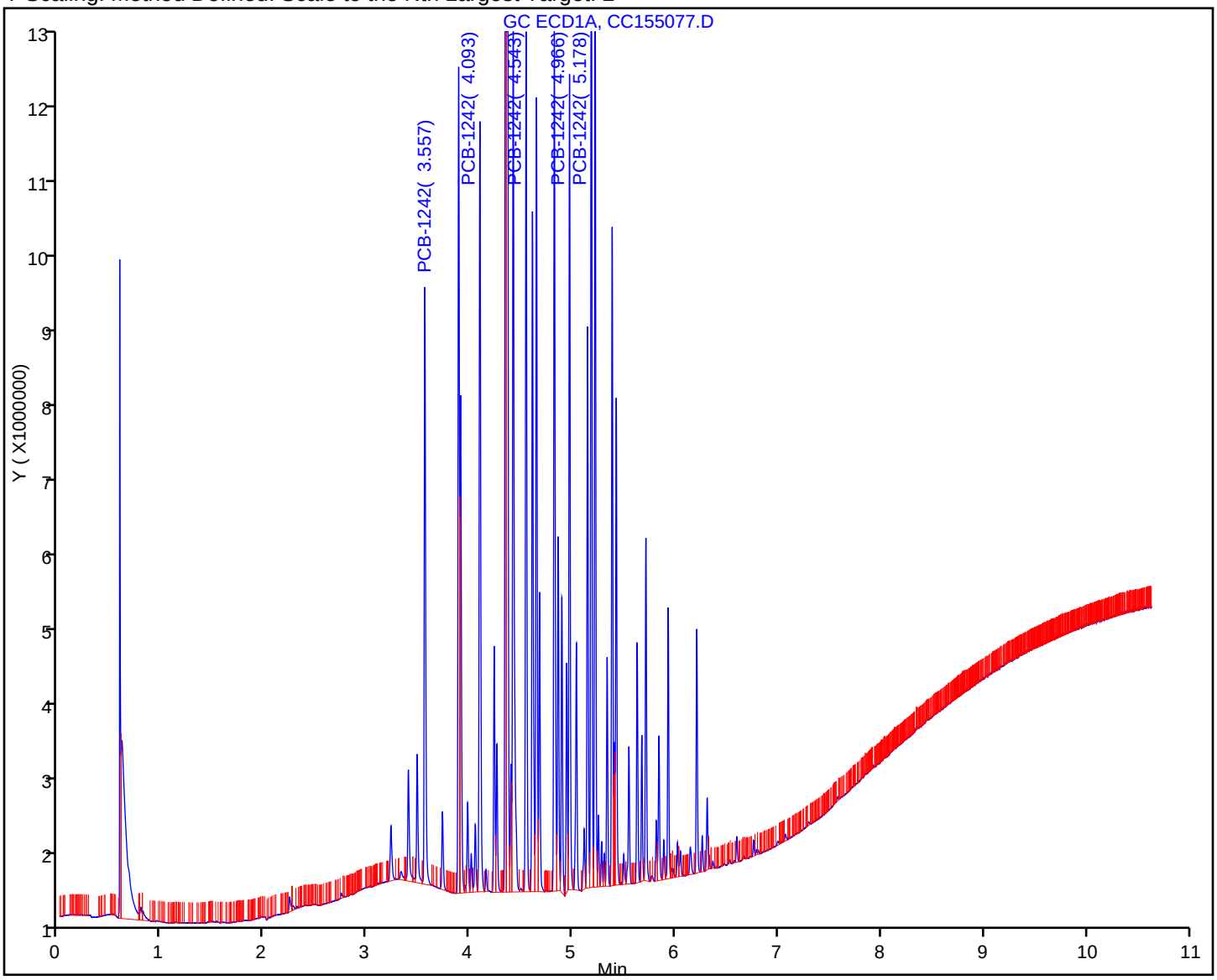
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.557	3.558	-0.001	7176717	518.0		100.0	
1	2	4.093	4.094	-0.001	9704984	460.5	98.2- 158.2	135.2	
1	3	4.543	4.544	-0.001	9671401	448.4	85.0- 145.0	134.8	
1	4	4.966	4.967	-0.001	8620138	502.6	102.8- 162.8	120.1	
1	5	5.178	5.178	0.000	11594423	492.4	109.0- 169.0	161.6	
			Average of Peak Amounts =			484.4			
2	6	3.561	3.561	0.000	17286555	423.0		100.0	
2	7	4.098	4.098	0.000	23607197	416.5	106.5- 166.5	136.6	
2	8	4.459	4.460	-0.001	28242103	457.9	128.9- 188.9	163.4	
2	9	4.552	4.553	-0.001	23443201	456.6	94.3- 154.3	135.6	
2	10	5.237	5.237	0.000	23429180	479.0	100.7- 160.7	135.5	
			Average of Peak Amounts =			446.6			
						RPD = 8.12			
S 12 Polychlorinated biphenyls, Total									
1						484.4			
2						446.6			
						RPD = 8.12			

Report Date: 08-Mar-2011 13:43:41 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155077.D

Injection Date:	03-Mar-2011 17:31:02	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	27
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155078.D		
Lims ID:	ic std 42 1000	Client ID:	
Inject. Date:	03-Mar-2011 17:45:11	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	24
Sample ID:	ic std 42 1000		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	28
Lims Batch ID:	81563	Lims Sample ID:	28
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:47	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:48:49

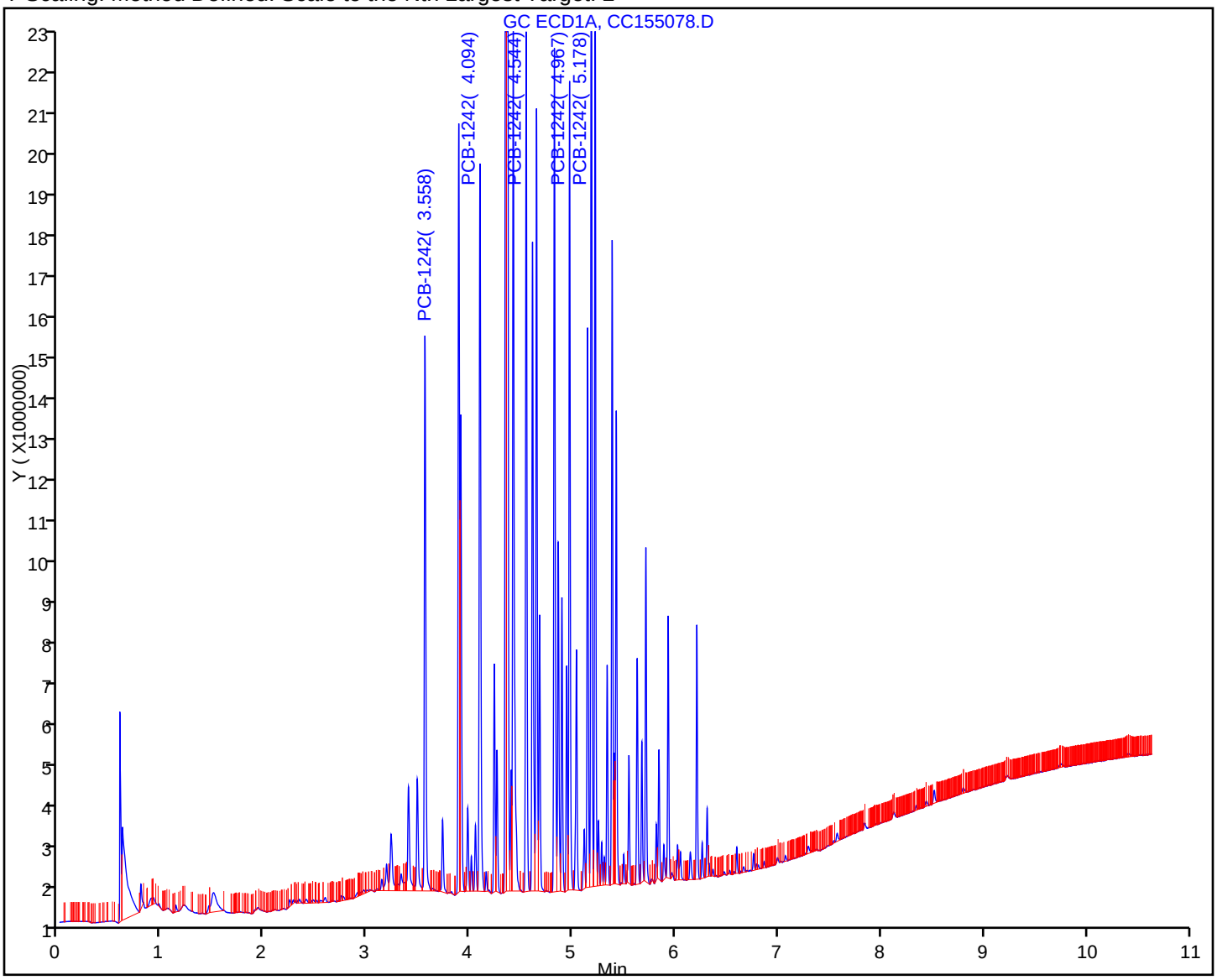
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.558	3.558	0.000	13367210	971.5		100.0	
1	2	4.094	4.094	0.000	18062453	857.1	98.2- 158.2	135.1	
1	3	4.544	4.544	0.000	18126751	840.4	85.0- 145.0	135.6	
1	4	4.967	4.967	0.000	15959561	930.6	102.8- 162.8	119.4	
1	5	5.178	5.178	0.000	21542605	914.9	109.0- 169.0	161.2	
			Average of Peak Amounts =			902.9			
2	6	3.562	3.561	0.001	32381740	792.4		100.0	
2	7	4.099	4.098	0.001	42949854	757.7	106.5- 166.5	132.6	
2	8	4.459	4.460	-0.001	51642579	837.4	128.9- 188.9	159.5	
2	9	4.553	4.553	0.000	42740346	832.4	94.3- 154.3	132.0	
2	10	5.237	5.237	0.000	42274010	864.3	100.7- 160.7	130.5	
			Average of Peak Amounts =			816.8			
						RPD = 10.01			
S 12 Polychlorinated biphenyls, Total									
1						902.9			
2						816.8			
						RPD = 10.01			

Report Date: 08-Mar-2011 13:43:47 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155078.D

Injection Date:	03-Mar-2011 17:45:11	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	28
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 16:34 Calibration End Date: 03/03/2011 17:45 Calibration ID: 7384

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/23	CC155073.D
Level 2	IC 580-81563/24	CC155074.D
Level 3	IC 580-81563/25	CC155075.D
Level 4	IC 580-81563/26	CC155076.D
Level 5	IC 580-81563/27	CC155077.D
Level 6	IC 580-81563/28	CC155078.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1242 Peak 1	3.560	3.561	3.561	3.561	3.561	3.562					3.531 - 3.591	3.561
PCB-1242 Peak 2	4.099	4.098	4.098	4.098	4.098	4.099					4.068 - 4.128	4.098
PCB-1242 Peak 3	4.459	4.460	4.460	4.460	4.459	4.459					4.430 - 4.490	4.460
PCB-1242 Peak 4	4.553	4.553	4.553	4.553	4.552	4.553					4.523 - 4.583	4.553
PCB-1242 Peak 5	5.237	5.237	5.236	5.237	5.237	5.237					5.207 - 5.267	5.237

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 16:34 Calibration End Date: 03/03/2011 17:45 Calibration ID: 7384

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/23	CC155073.D
Level 2	IC 580-81563/24	CC155074.D
Level 3	IC 580-81563/25	CC155075.D
Level 4	IC 580-81563/26	CC155076.D
Level 5	IC 580-81563/27	CC155077.D
Level 6	IC 580-81563/28	CC155078.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1242 Peak 1	55445 34525	40543 32336	40934	41394	Ave		40862.9003				20.0		20.0			
PCB-1242 Peak 2	72774 47148	62440 42890	58327	56528	Ave		56684.5413				19.0		20.0			
PCB-1242 Peak 3	57513 56405	69477 51570	69496	65577	Ave		61673.1135				12.0		20.0			
PCB-1242 Peak 4	52602 46821	62160 42681	52462	51353	Ave		51346.4996				13.0		20.0			
PCB-1242 Peak 5	49816 46793	52778 42215	51491	50378	Ave		48911.7868				7.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 16:34 Calibration End Date: 03/03/2011 17:45 Calibration ID: 7384

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/23	CC155073.D
Level 2	IC 580-81563/24	CC155074.D
Level 3	IC 580-81563/25	CC155075.D
Level 4	IC 580-81563/26	CC155076.D
Level 5	IC 580-81563/27	CC155077.D
Level 6	IC 580-81563/28	CC155078.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	555225 32381740	811997	2049562	4145221	17286555	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 2	Ave	728755 42949854	1250545	2920443	5660754	23607197	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 3	Ave	575936 51642579	1391478	3479660	6566925	28242103	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 4	Ave	526758 42740346	1244935	2626782	5142537	23443201	10.0 1001	20.0	50.1	100	501
PCB-1242 Peak 5	Ave	498856 42274010	1057046	2578153	5044825	23429180	10.0 1001	20.0	50.1	100	501

Curve Type Legend:
Ave = Average

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155073.D		
Lims ID:	ic std 42 10	Client ID:	
Inject. Date:	03-Mar-2011 16:34:27	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	19
Sample ID:	ic std 42 10		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	23
Lims Batch ID:	81563	Lims Sample ID:	23
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:17	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:14

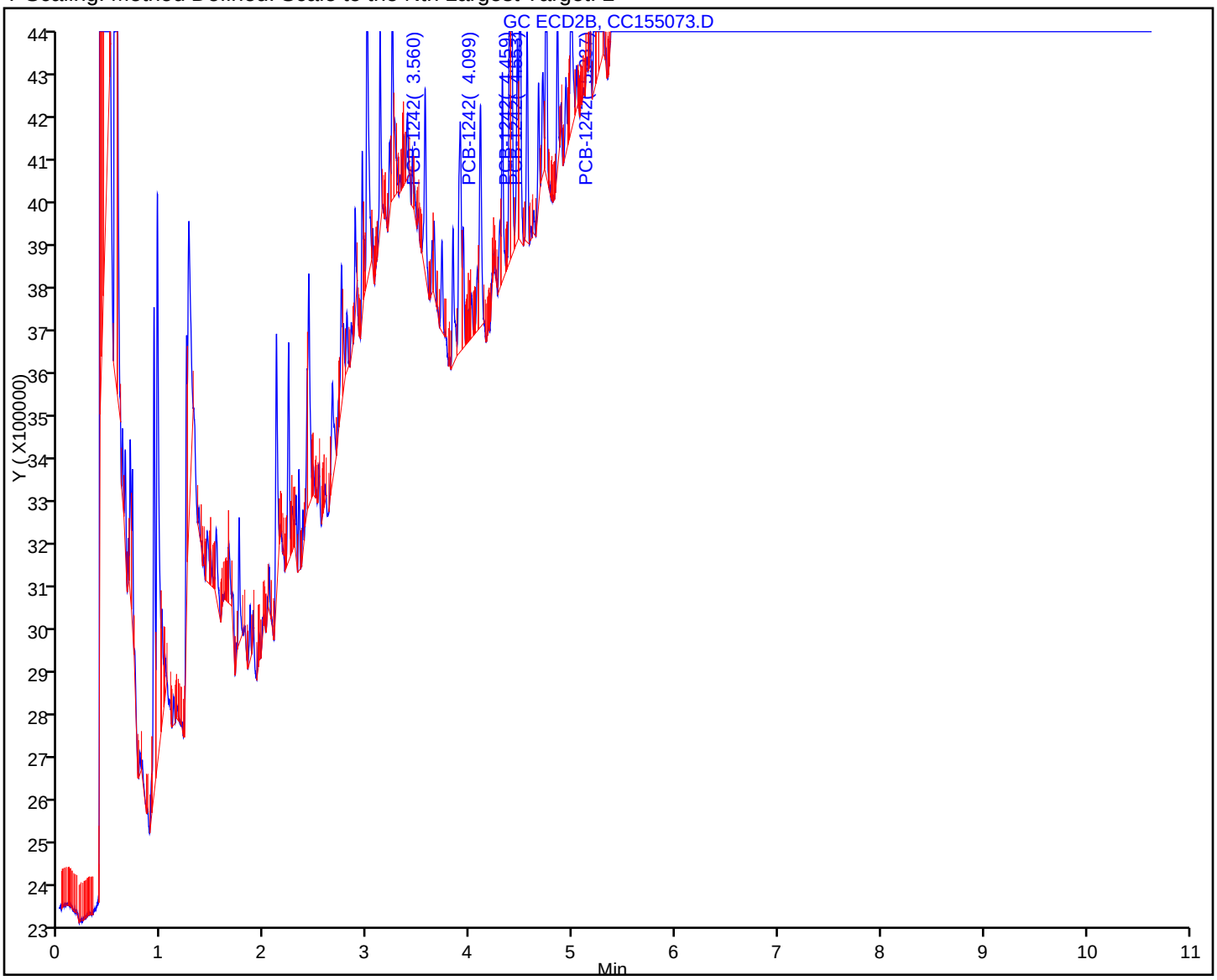
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.557	3.558	-0.001	243422	10.1		100.0	
1	2	4.094	4.094	0.000	209645	9.95	98.2- 158.2	86.1	
1	3	4.545	4.544	0.001	288332	13.4	85.0- 145.0	118.4	
1	4	4.967	4.967	0.000	142466	8.31	102.8- 162.8	58.5	
1	5	5.178	5.178	0.000	221941	9.43	109.0- 169.0	91.2	
			Average of Peak Amounts =			10.2			
2	6	3.560	3.561	-0.001	555225	13.6		100.0	
2	7	4.099	4.098	0.001	728755	12.9	106.5- 166.5	131.3	
2	8	4.459	4.460	-0.001	575936	9.34	128.9- 188.9	103.7	
2	9	4.553	4.553	0.000	526758	10.3	94.3- 154.3	94.9	
2	10	5.237	5.237	0.000	498856	10.2	100.7- 160.7	89.8	
			Average of Peak Amounts =			11.2			
						RPD = 9.50			
S 12 Polychlorinated biphenyls, Total									
1						10.2			
2						11.2			
						RPD = 9.50			

Report Date: 08-Mar-2011 13:43:18 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155073.D

Injection Date:	03-Mar-2011 16:34:27	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	23
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155074.D		
Lims ID:	ic std 42 20	Client ID:	
Inject. Date:	03-Mar-2011 16:48:35	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	20
Sample ID:	ic std 42 20		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	24
Lims Batch ID:	81563	Lims Sample ID:	24
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:23	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:25

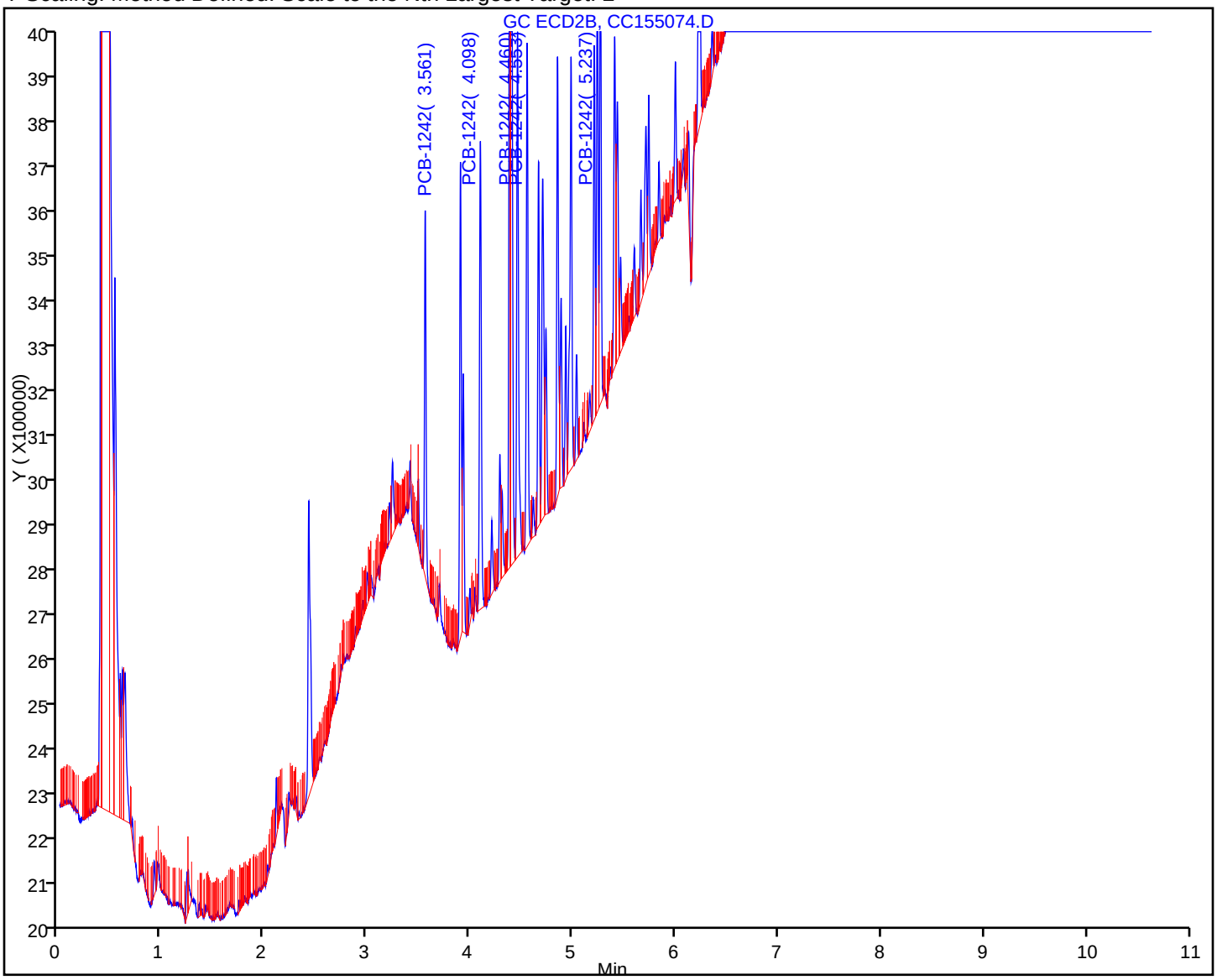
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.557	3.558	-0.001	321499	15.8		100.0	
1	2	4.094	4.094	0.000	448015	21.3	98.2- 158.2	139.4	
1	3	4.543	4.544	-0.001	417565	19.4	85.0- 145.0	129.9	
1	4	4.967	4.967	0.000	362345	21.1	102.8- 162.8	112.7	
1	5	5.178	5.178	0.000	482234	20.5	109.0- 169.0	150.0	
			Average of Peak Amounts =			19.6			
2	6	3.561	3.561	0.000	811997	19.9		100.0	
2	7	4.098	4.098	0.000	1250545	22.1	106.5- 166.5	154.0	
2	8	4.460	4.460	0.000	1391478	22.6	128.9- 188.9	171.4	
2	9	4.553	4.553	0.000	1244935	24.2	94.3- 154.3	153.3	
2	10	5.237	5.237	0.000	1057046	21.6	100.7- 160.7	130.2	
			Average of Peak Amounts =			22.1			
						RPD = 11.82			
S 12 Polychlorinated biphenyls, Total									
1						19.6			
2						22.1			
						RPD = 11.82			

Report Date: 08-Mar-2011 13:43:23 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155074.D

Injection Date:	03-Mar-2011 16:48:35	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	24
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155075.D		
Lims ID:	ic std 42 50	Client ID:	
Inject. Date:	03-Mar-2011 17:02:43	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	21
Sample ID:	ic std 42 50		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	25
Lims Batch ID:	81563	Lims Sample ID:	25
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:29	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:36

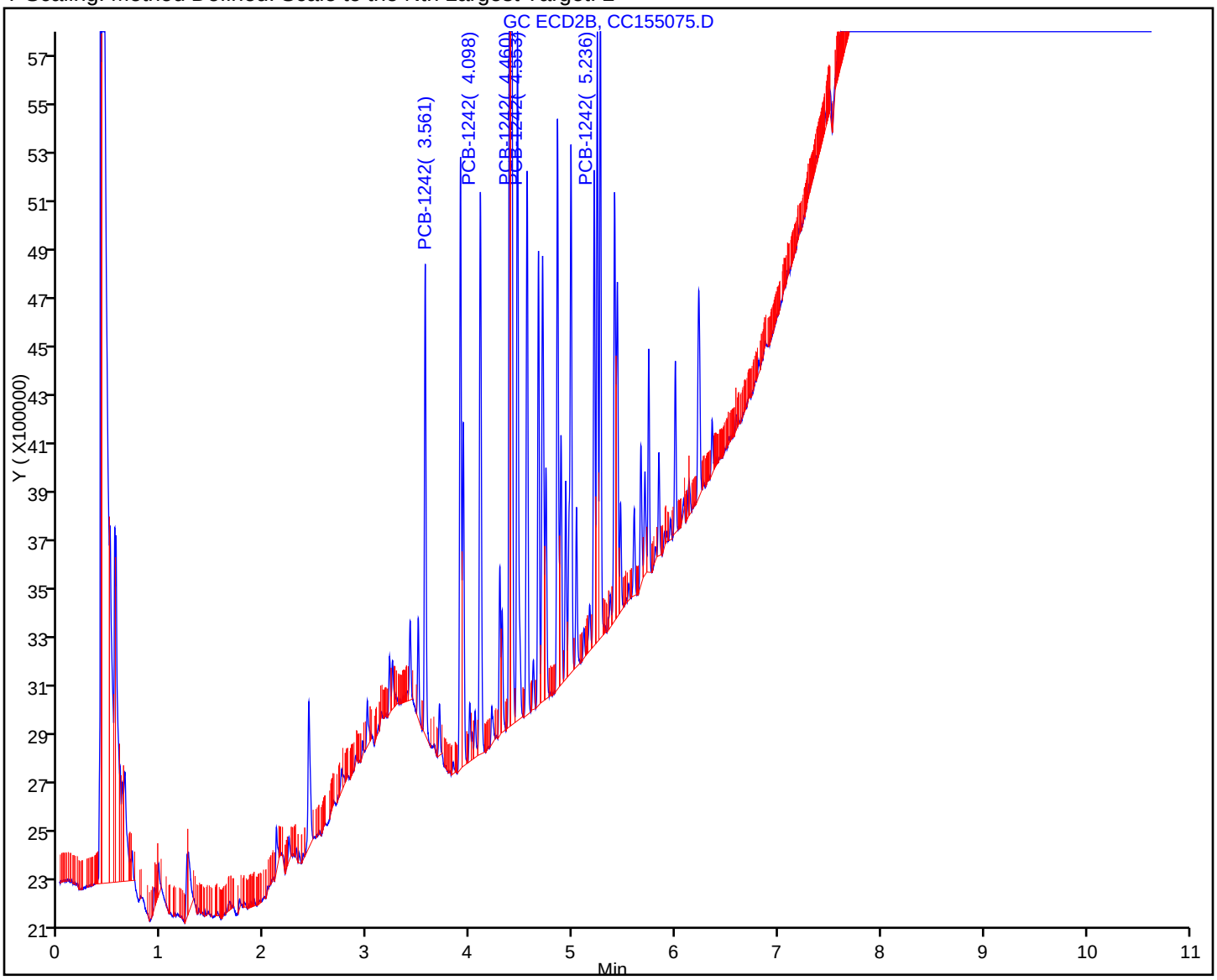
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.558	3.558	0.000	831395	53.2		100.0	
1	2	4.094	4.094	0.000	1121312	53.2	98.2- 158.2	134.9	
1	3	4.543	4.544	-0.001	1046064	48.5	85.0- 145.0	125.8	
1	4	4.966	4.967	-0.001	920085	53.6	102.8- 162.8	110.7	
1	5	5.178	5.178	0.000	1238963	52.6	109.0- 169.0	149.0	
			Average of Peak Amounts =			52.2			
2	6	3.561	3.561	0.000	2049562	50.2		100.0	
2	7	4.098	4.098	0.000	2920443	51.5	106.5- 166.5	142.5	
2	8	4.460	4.460	0.000	3479660	56.4	128.9- 188.9	169.8	
2	9	4.553	4.553	0.000	2626782	51.2	94.3- 154.3	128.2	
2	10	5.236	5.237	-0.001	2578153	52.7	100.7- 160.7	125.8	
			Average of Peak Amounts =			52.4			
						RPD = 0.32			
S 12 Polychlorinated biphenyls, Total									
1						52.2			
2						52.4			
						RPD = 0.32			

Report Date: 08-Mar-2011 13:43:29 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155075.D

Injection Date:	03-Mar-2011 17:02:43	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	25
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155076.D		
Lims ID:	ic std 42 100	Client ID:	
Inject. Date:	03-Mar-2011 17:16:57	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	22
Sample ID:	ic std 42 100		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	26
Lims Batch ID:	81563	Lims Sample ID:	26
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:35	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:47:51

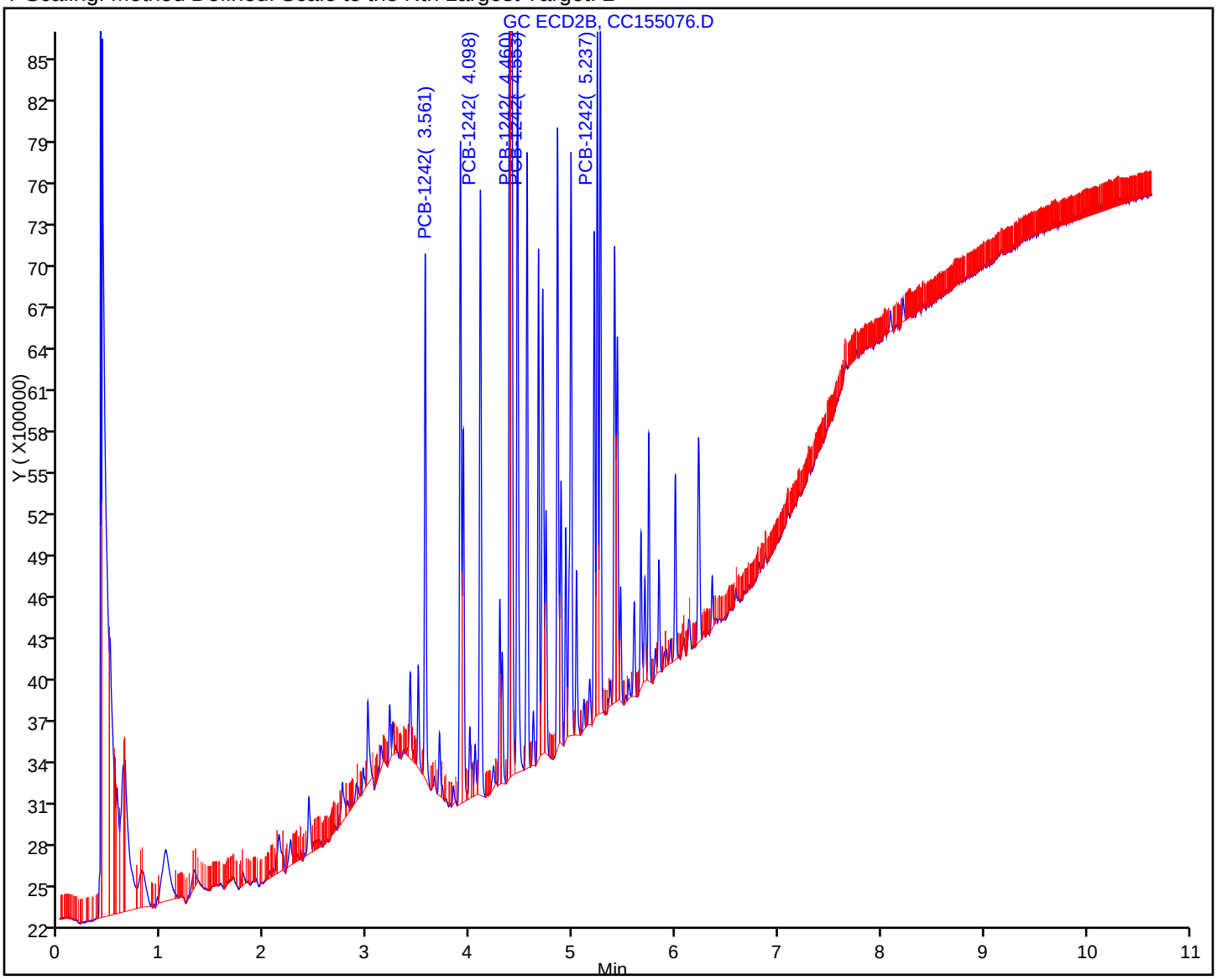
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.558	3.558	0.000	1658827	113.8		100.0	
1	2	4.094	4.094	0.000	2335098	110.8	98.2- 158.2	140.8	
1	3	4.544	4.544	0.000	2149917	99.7	85.0- 145.0	129.6	
1	4	4.967	4.967	0.000	1908022	111.3	102.8- 162.8	115.0	
1	5	5.178	5.178	0.000	2565635	109.0	109.0- 169.0	154.7	
			Average of Peak Amounts =			108.9			
2	6	3.561	3.561	0.000	4145221	101.4		100.0	
2	7	4.098	4.098	0.000	5660754	99.9	106.5- 166.5	136.6	
2	8	4.460	4.460	0.000	6566925	106.5	128.9- 188.9	158.4	
2	9	4.553	4.553	0.000	5142537	100.2	94.3- 154.3	124.1	
2	10	5.237	5.237	0.000	5044825	103.1	100.7- 160.7	121.7	
			Average of Peak Amounts =			102.2			
						RPD = 6.33			
S 12 Polychlorinated biphenyls, Total									
1						108.9			
2						102.2			
						RPD = 6.33			

Report Date: 08-Mar-2011 13:43:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155076.D

Injection Date:	03-Mar-2011 17:16:57	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	26
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155077.D		
Lims ID:	ic std 42 500	Client ID:	
Inject. Date:	03-Mar-2011 17:31:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	23
Sample ID:	ic std 42 500		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	27
Lims Batch ID:	81563	Lims Sample ID:	27
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:41	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:48:02

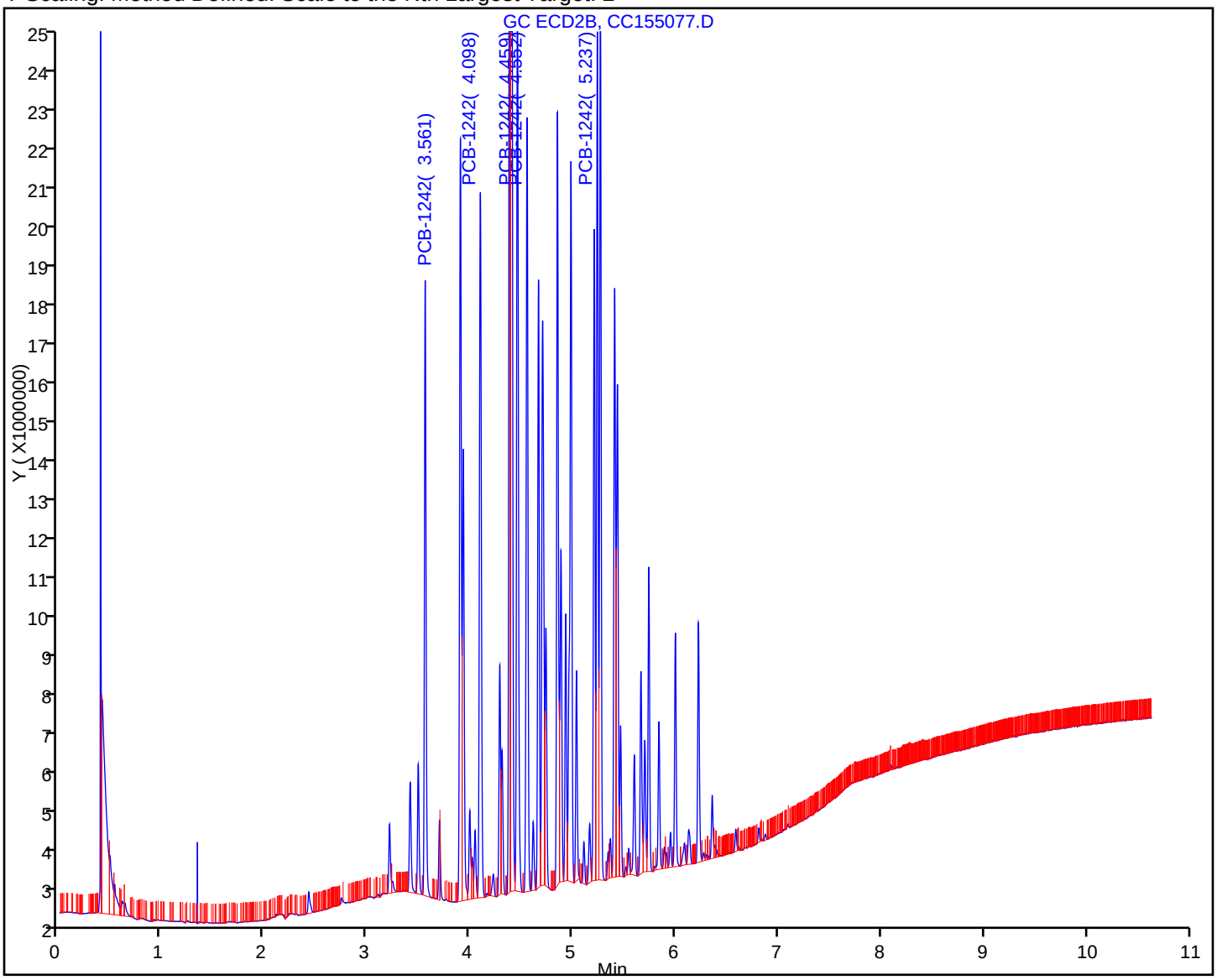
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.557	3.558	-0.001	7176717	518.0		100.0	
1	2	4.093	4.094	-0.001	9704984	460.5	98.2- 158.2	135.2	
1	3	4.543	4.544	-0.001	9671401	448.4	85.0- 145.0	134.8	
1	4	4.966	4.967	-0.001	8620138	502.6	102.8- 162.8	120.1	
1	5	5.178	5.178	0.000	11594423	492.4	109.0- 169.0	161.6	
			Average of Peak Amounts =			484.4			
2	6	3.561	3.561	0.000	17286555	423.0		100.0	
2	7	4.098	4.098	0.000	23607197	416.5	106.5- 166.5	136.6	
2	8	4.459	4.460	-0.001	28242103	457.9	128.9- 188.9	163.4	
2	9	4.552	4.553	-0.001	23443201	456.6	94.3- 154.3	135.6	
2	10	5.237	5.237	0.000	23429180	479.0	100.7- 160.7	135.5	
			Average of Peak Amounts =			446.6			
						RPD = 8.12			
S 12 Polychlorinated biphenyls, Total									
1						484.4			
2						446.6			
						RPD = 8.12			

Report Date: 08-Mar-2011 13:43:41 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155077.D

Injection Date:	03-Mar-2011 17:31:02	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	27
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155078.D		
Lims ID:	ic std 42 1000	Client ID:	
Inject. Date:	03-Mar-2011 17:45:11	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	24
Sample ID:	ic std 42 1000		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	28
Lims Batch ID:	81563	Lims Sample ID:	28
Sublist:	chrom-8082_TAC042*sub3		
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m		
Last Update:	08-Mar-2011 13:43:47	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 07-Mar-2011 09:48:49

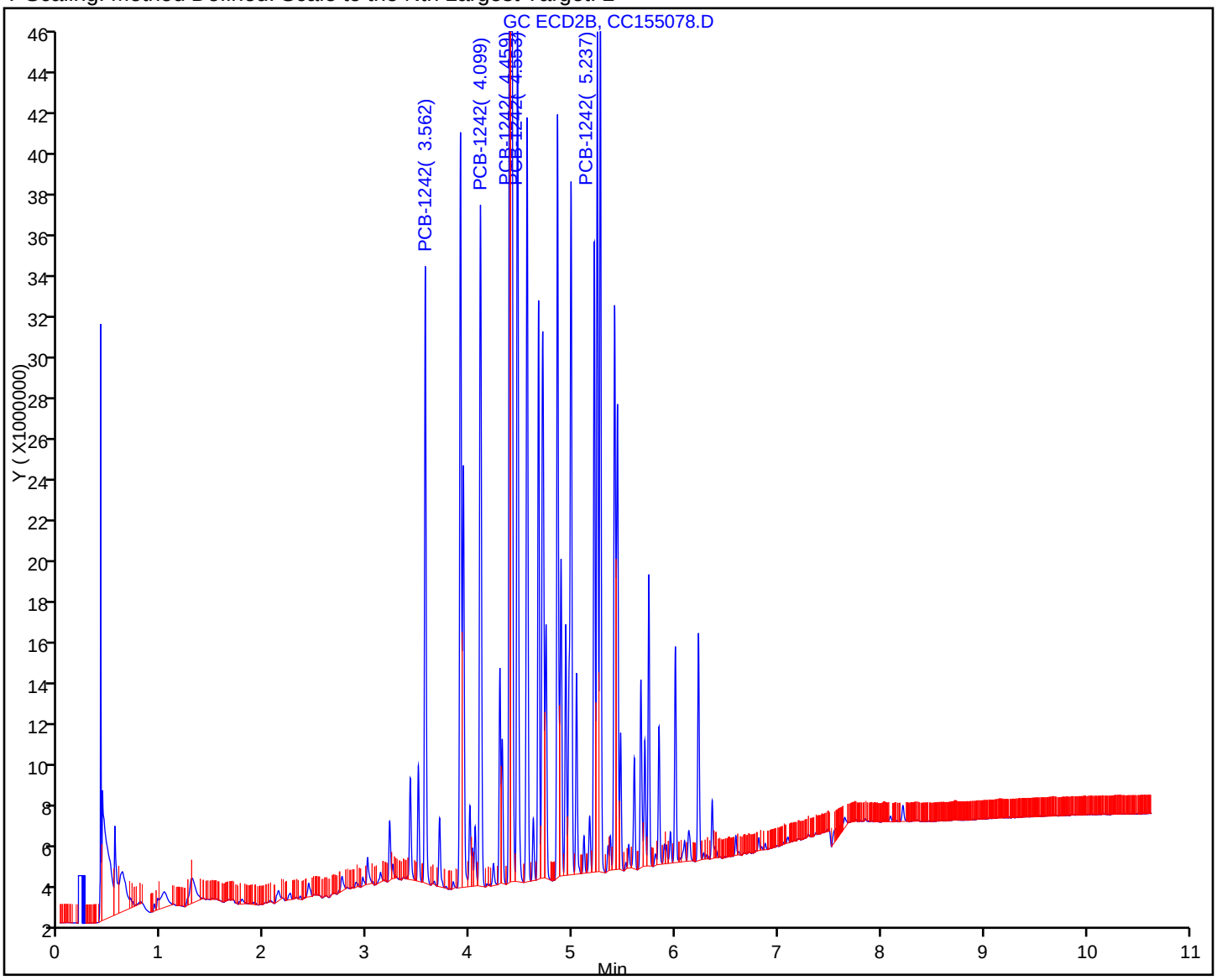
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
5 PCB-1242									
1	1	3.558	3.558	0.000	13367210	971.5		100.0	
1	2	4.094	4.094	0.000	18062453	857.1	98.2- 158.2	135.1	
1	3	4.544	4.544	0.000	18126751	840.4	85.0- 145.0	135.6	
1	4	4.967	4.967	0.000	15959561	930.6	102.8- 162.8	119.4	
1	5	5.178	5.178	0.000	21542605	914.9	109.0- 169.0	161.2	
			Average of Peak Amounts =			902.9			
2	6	3.562	3.561	0.001	32381740	792.4		100.0	
2	7	4.099	4.098	0.001	42949854	757.7	106.5- 166.5	132.6	
2	8	4.459	4.460	-0.001	51642579	837.4	128.9- 188.9	159.5	
2	9	4.553	4.553	0.000	42740346	832.4	94.3- 154.3	132.0	
2	10	5.237	5.237	0.000	42274010	864.3	100.7- 160.7	130.5	
			Average of Peak Amounts =			816.8			
						RPD = 10.01			
S 12 Polychlorinated biphenyls, Total									
1						902.9			
2						816.8			
						RPD = 10.01			

Report Date: 08-Mar-2011 13:43:47 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155078.D

Injection Date:	03-Mar-2011 17:45:11	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	28
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 18:13 Calibration End Date: 03/03/2011 19:24 Calibration ID: 7374

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/30	CC155080.D
Level 2	IC 580-81563/31	CC155081.D
Level 3	IC 580-81563/32	CC155082.D
Level 4	IC 580-81563/33	CC155083.D
Level 5	IC 580-81563/34	CC155084.D
Level 6	IC 580-81563/35	CC155085.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	4.605	4.605	4.606	4.605	4.605	4.605					4.575 - 4.635	4.605
PCB-1248 Peak 2	4.819	4.818	4.818	4.818	4.818	4.818					4.788 - 4.848	4.818
PCB-1248 Peak 3	5.179	5.178	5.178	5.178	5.178	5.178					5.148 - 5.208	5.178
PCB-1248 Peak 4	5.380	5.380	5.380	5.380	5.380	5.380					5.350 - 5.410	5.380
PCB-1248 Peak 5	5.710	5.709	5.709	5.708	5.709	5.709					5.678 - 5.738	5.709
PCB-1268 Peak 1	7.024	7.024	7.024	7.023	7.024	7.023					6.993 - 7.053	7.024
PCB-1268 Peak 2	7.075	7.075	7.075	7.074	7.075	7.074					7.044 - 7.104	7.075
PCB-1268 Peak 3	7.241	7.242	7.241	7.241	7.243	7.241					7.211 - 7.271	7.242
PCB-1268 Peak 4	7.473	7.473	7.474	7.473	7.473	7.473					7.443 - 7.503	7.473
PCB-1268 Peak 5	7.684	7.684	7.684	7.683	7.684	7.684					7.653 - 7.713	7.684

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 18:13 Calibration End Date: 03/03/2011 19:24 Calibration ID: 7374

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/30	CC155080.D
Level 2	IC 580-81563/31	CC155081.D
Level 3	IC 580-81563/32	CC155082.D
Level 4	IC 580-81563/33	CC155083.D
Level 5	IC 580-81563/34	CC155084.D
Level 6	IC 580-81563/35	CC155085.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	37337 28085	28727 26753	31261	31166	Ave		30554.9670				12.0		20.0			
PCB-1248 Peak 2	44959 33159	32990 31899	35544	35836	Ave		35731.3238				13.0		20.0			
PCB-1248 Peak 3	61826 46414	44966 44545	47168	47496	Ave		48735.8456				13.0		20.0			
PCB-1248 Peak 4	35032 25674	24901 24558	26509	26332	Ave		27167.6866				14.0		20.0			
PCB-1248 Peak 5	39078 20492	19506 19580	21493	21756	Lin1	130004.750	19689.2258							0.9970		0.9900
PCB-1268 Peak 1	144628 130684	118863 125723	132035	133417	Ave		130891.577				6.6		20.0			
PCB-1268 Peak 2	138313 120283	106651 116282	119524	121077	Ave		120354.992				8.5		20.0			
PCB-1268 Peak 3	105553 98950	88069 96458	98750	99859	Ave		97939.8214				5.8		20.0			
PCB-1268 Peak 4	46682 41250	36563 40114	42082	42632	Ave		41553.7696				8.0		20.0			
PCB-1268 Peak 5	235630 245040	194832 249799	223838	246312	Ave		232575.309				8.9		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-2 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 18:13 Calibration End Date: 03/03/2011 19:24 Calibration ID: 7374

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/30	CC155080.D
Level 2	IC 580-81563/31	CC155081.D
Level 3	IC 580-81563/32	CC155082.D
Level 4	IC 580-81563/33	CC155083.D
Level 5	IC 580-81563/34	CC155084.D
Level 6	IC 580-81563/35	CC155085.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	373703 26776773	575066	1564474	3119443	14055258	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 2	Ave	449997 31928064	660403	1778775	3586821	16594634	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 3	Ave	618818 44584755	900139	2360523	4753835	23227966	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 4	Ave	350633 24580547	498459	1326659	2635539	12848729	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 5	Lin1	391131 19597648	390478	1075604	2177518	10255319	10.0 1001	20.0	50.0	100	500
PCB-1268 Peak 1	Ave	1470863 127860441	2417667	6713995	13568470	66452856	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 2	Ave	1406643 118259087	2169275	6077797	12313575	61163667	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 3	Ave	1073470 98097574	1791333	5021444	10155611	50316288	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 4	Ave	474755 40795624	743692	2139891	4335633	20975614	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 5	Ave	2396360 254045537	3962893	11382176	25049960	124602615	10.2 1017	20.3	50.9	102	509

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155080.D
Lims ID: ic std 4868 10 Client ID:
Inject. Date: 03-Mar-2011 18:13:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 25
Sample ID: ic std 4868 10
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 30
Lims Batch ID: 81563 Lims Sample ID: 30
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:43:59 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:51:29

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	373703	12.2		100.0	
1	2	4.819	4.818	0.001	449997	12.6	59.5- 119.5	120.4	
1	3	5.179	5.178	0.001	618818	12.7	86.4- 146.4	165.6	
1	4	5.380	5.380	0.000	350633	12.9	47.5- 107.5	93.8	
1	5	5.710	5.708	0.002	391131	13.3	121.3- 181.3	104.7	
			Average of Peak Amounts =			12.7			
2	6	4.664	4.664	0.000	872844	12.8		100.0	
2	7	4.850	4.849	0.001	1069816	13.0	179.4- 239.4	122.6	
2	8	5.236	5.236	0.000	1152363	13.0	220.9- 280.9	132.0	
2	9	5.405	5.405	0.000	997691	13.5	149.6- 209.6	114.3	
2	10	5.738	5.738	0.000	987971	18.1	176.2- 236.2	113.2	
			Average of Peak Amounts =			14.1			
						RPD = 9.95			
11 PCB-1268									M
1	1	7.024	7.023	0.001	1470863	11.2		100.0	
1	2	7.075	7.074	0.001	1406643	11.7	60.7- 120.7	95.6	
1	3	7.241	7.241	0.000	1073470	11.0	44.7- 104.7	73.0	
1	4	7.473	7.473	0.000	474755	11.4	1.1- 61.1	32.3	
1	5	7.684	7.683	0.001	2396360	10.3	199.6- 259.6	162.9	
			Average of Peak Amounts =			11.1			
2	6	7.089	7.088	0.001	3544684	11.5		100.0	
2	7	7.151	7.150	0.001	3137827	11.2	58.5- 118.5	88.5	
2	8	7.287	7.287	0.000	2633820	11.1	44.9- 104.9	74.3	
2	9	7.539	7.538	0.001	1142505	10.9	3.5- 63.5	32.2	
2	10	7.741	7.741	0.000	8924214	10.7	204.5- 264.5	251.8	M
			Average of Peak Amounts =			11.1			
						RPD = 0.34			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						23.9			
2						25.2			
						RPD = 5.29			

QC Flag Legend

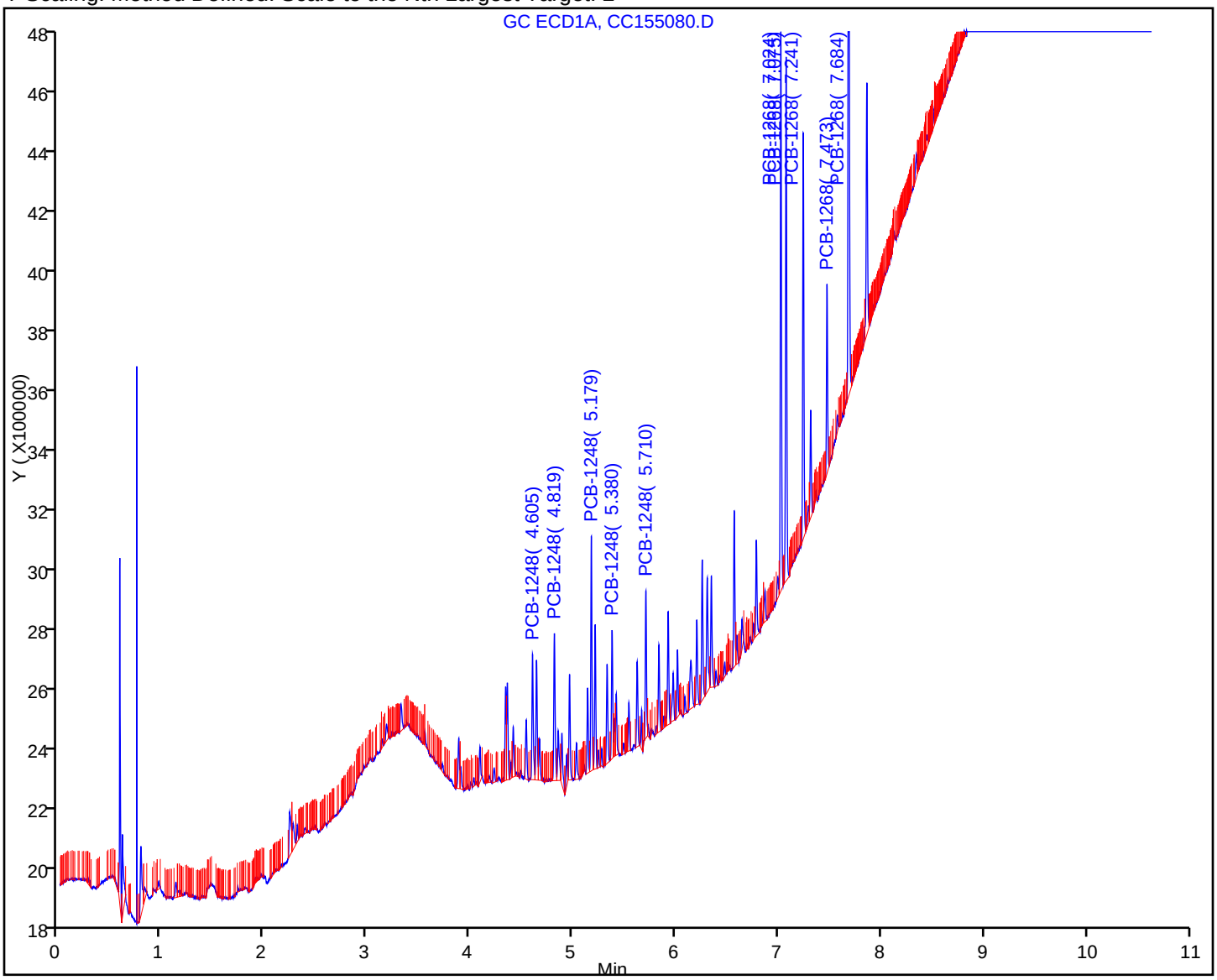
Review Flags
M - Manually Integrated

Report Date: 08-Mar-2011 13:43:59 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155080.D

Injection Date:	03-Mar-2011 18:13:20	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	30
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155081.D
Lims ID: ic std 4868 20 Client ID:
Inject. Date: 03-Mar-2011 18:27:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 26
Sample ID: ic std 4868 20
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 31
Lims Batch ID: 81563 Lims Sample ID: 31
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:05 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:51:44

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	575066	18.8		100.0	
1	2	4.818	4.818	0.000	660403	18.5	59.5- 119.5	114.8	
1	3	5.178	5.178	0.000	900139	18.5	86.4- 146.4	156.5	
1	4	5.380	5.380	0.000	498459	18.3	47.5- 107.5	86.7	
1	5	5.709	5.708	0.001	390478	13.2	121.3- 181.3	67.9	
			Average of Peak Amounts =			17.5			
2	6	4.665	4.664	0.001	1343794	19.8		100.0	
2	7	4.849	4.849	0.000	1580662	19.2	179.4- 239.4	117.6	
2	8	5.236	5.236	0.000	1581880	17.8	220.9- 280.9	117.7	
2	9	5.405	5.405	0.000	1324842	18.0	149.6- 209.6	98.6	
2	10	5.738	5.738	0.000	876293	16.0	176.2- 236.2	65.2	
			Average of Peak Amounts =			18.1			
						RPD = 3.78			
11 PCB-1268									
1	1	7.024	7.023	0.001	2417667	18.5		100.0	
1	2	7.075	7.074	0.001	2169275	18.0	60.7- 120.7	89.7	
1	3	7.242	7.241	0.001	1791333	18.3	44.7- 104.7	74.1	
1	4	7.473	7.473	0.000	743692	17.9	1.1- 61.1	30.8	
1	5	7.684	7.683	0.001	3962893	17.0	199.6- 259.6	163.9	
			Average of Peak Amounts =			17.9			
2	6	7.089	7.088	0.001	5578370	18.1		100.0	
2	7	7.150	7.150	0.000	5030374	18.0	58.5- 118.5	90.2	
2	8	7.287	7.287	0.000	4289250	18.1	44.9- 104.9	76.9	
2	9	7.540	7.538	0.002	2527154	24.1	3.5- 63.5	45.3	
2	10	7.741	7.741	0.000	14963168	17.9	204.5- 264.5	268.2	
			Average of Peak Amounts =			19.2			
						RPD = 6.99			

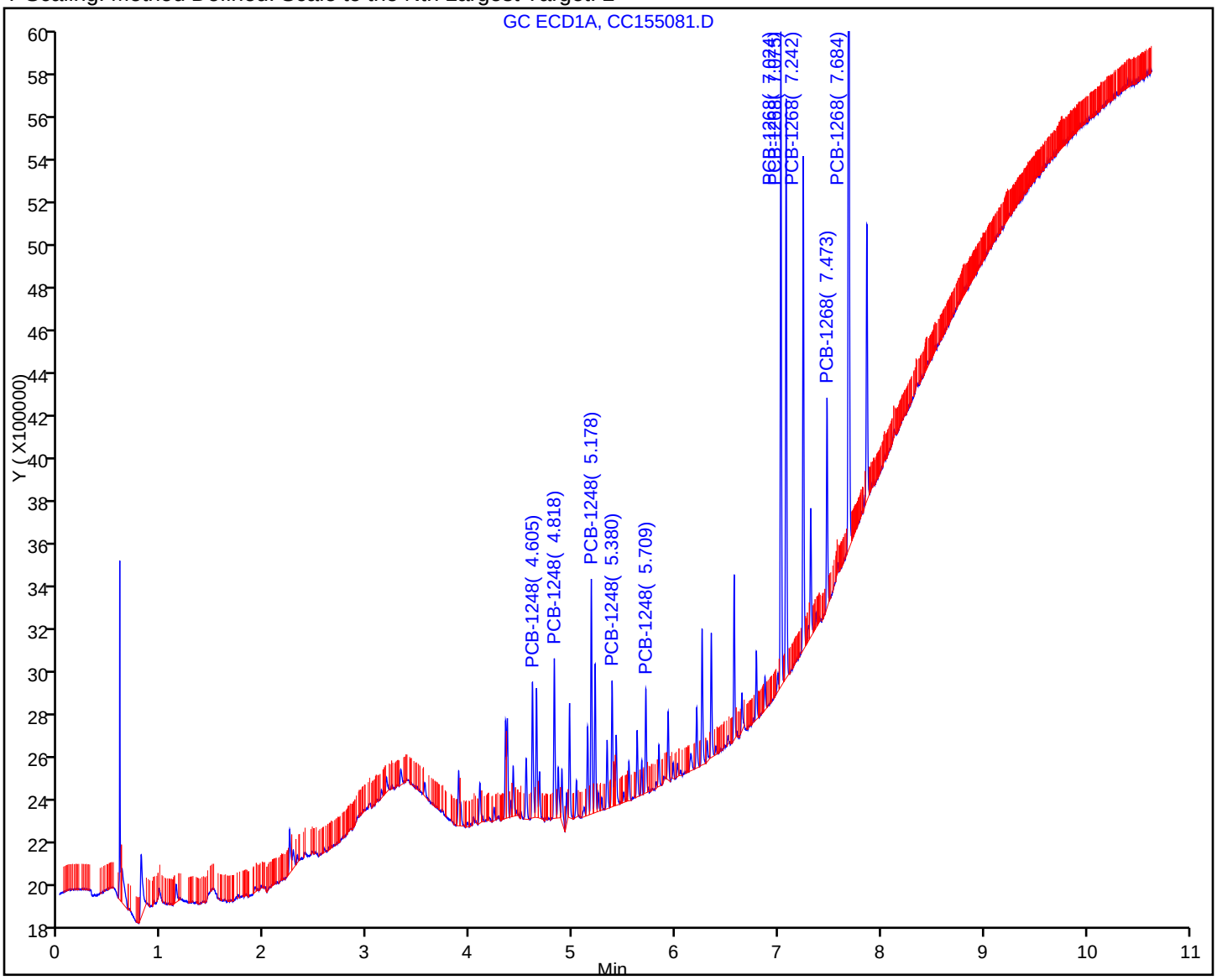
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						35.4			
2						37.4			
						RPD = 5.42			

Report Date: 08-Mar-2011 13:44:05 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155081.D

Injection Date:	03-Mar-2011 18:27:29	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	31
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155082.D
Lims ID: ic std 4868 50 Client ID:
Inject. Date: 03-Mar-2011 18:41:33 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 27
Sample ID: ic std 4868 50
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 32
Lims Batch ID: 81563 Lims Sample ID: 32
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:10 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:52:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.606	4.605	0.001	1564474	51.2		100.0	
1	2	4.818	4.818	0.000	1778775	49.8	59.5- 119.5	113.7	
1	3	5.178	5.178	0.000	2360523	48.4	86.4- 146.4	150.9	
1	4	5.380	5.380	0.000	1326659	48.8	47.5- 107.5	84.8	
1	5	5.709	5.708	0.001	1075604	48.0	121.3- 181.3	68.8	
			Average of Peak Amounts =			49.3			
2	6	4.664	4.664	0.000	3478494	51.2		100.0	
2	7	4.849	4.849	0.000	4160209	50.5	179.4- 239.4	119.6	
2	8	5.236	5.236	0.000	4471333	50.3	220.9- 280.9	128.5	
2	9	5.405	5.405	0.000	3663373	49.7	149.6- 209.6	105.3	
2	10	5.737	5.738	-0.001	2489254	45.5	176.2- 236.2	71.6	
			Average of Peak Amounts =			49.4			
						RPD = 0.33			
11 PCB-1268									
1	1	7.024	7.023	0.001	6713995	51.3		100.0	
1	2	7.075	7.074	0.001	6077797	50.5	60.7- 120.7	90.5	
1	3	7.241	7.241	0.000	5021444	51.3	44.7- 104.7	74.8	
1	4	7.474	7.473	0.001	2139891	51.5	1.1- 61.1	31.9	
1	5	7.684	7.683	0.001	11382176	48.9	199.6- 259.6	169.5	
			Average of Peak Amounts =			50.7			
2	6	7.088	7.088	0.000	15452412	50.2		100.0	
2	7	7.151	7.150	0.001	14219337	50.9	58.5- 118.5	92.0	
2	8	7.287	7.287	0.000	12036053	50.8	44.9- 104.9	77.9	
2	9	7.538	7.538	0.000	4963401	47.3	3.5- 63.5	32.1	
2	10	7.741	7.741	0.000	43173599	51.7	204.5- 264.5	279.4	
			Average of Peak Amounts =			50.2			
						RPD = 1.05			

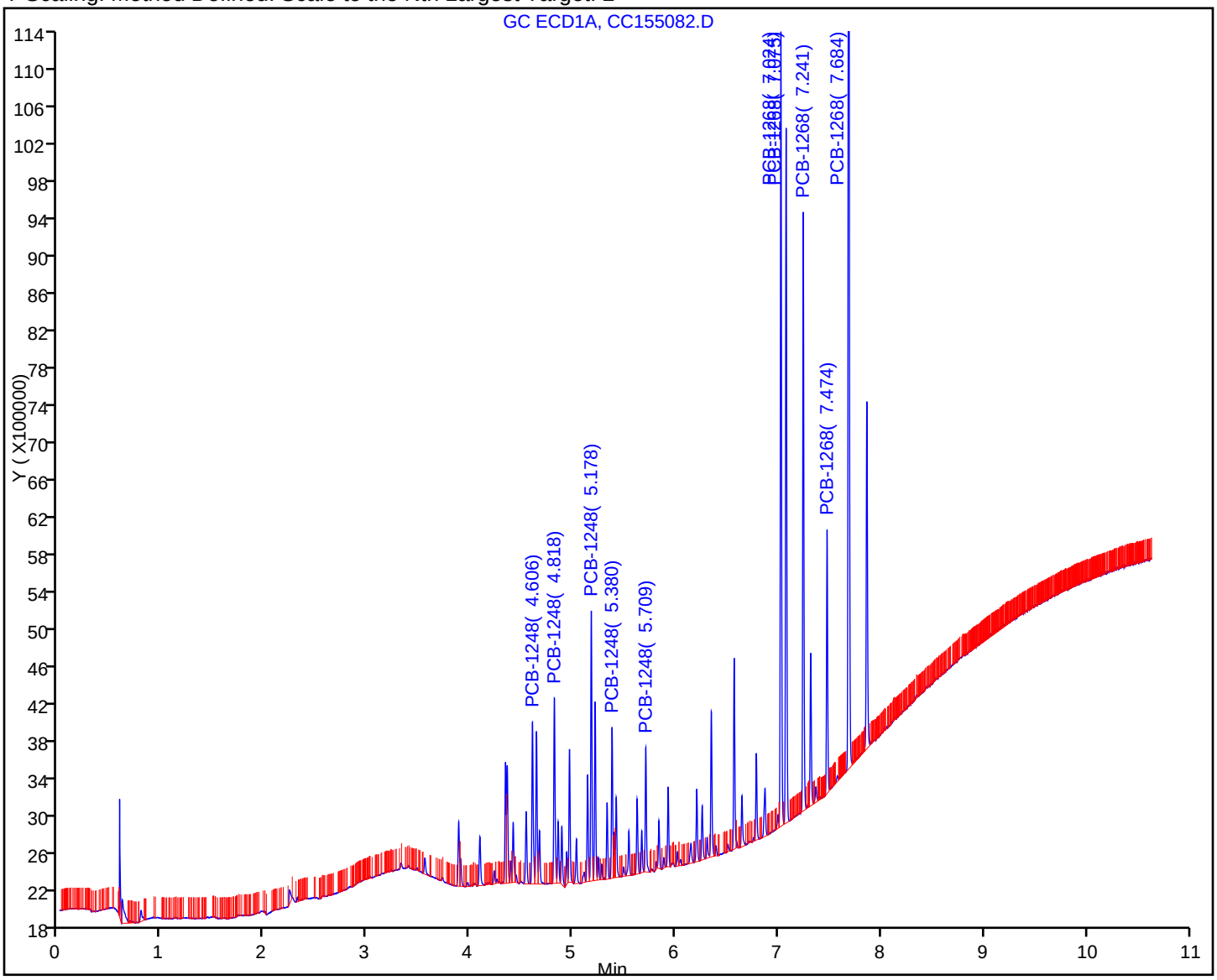
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						100.0			
2						99.6			
						RPD = 0.37			

Report Date: 08-Mar-2011 13:44:11 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155082.D

Injection Date:	03-Mar-2011 18:41:33	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	32
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155083.D
Lims ID: ic std 4868 100 Client ID:
Inject. Date: 03-Mar-2011 18:55:40 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 28
Sample ID: ic std 4868 100
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 33
Lims Batch ID: 81563 Lims Sample ID: 33
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:17 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:52:17

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	3119443	102.1		100.0	
1	2	4.818	4.818	0.000	3586821	100.4	59.5- 119.5	115.0	
1	3	5.178	5.178	0.000	4753835	97.5	86.4- 146.4	152.4	
1	4	5.380	5.380	0.000	2635539	97.0	47.5- 107.5	84.5	
1	5	5.708	5.708	0.000	2177518	104.0	121.3- 181.3	69.8	
			Average of Peak Amounts =			100.2			
2	6	4.664	4.664	0.000	6444417	94.8		100.0	
2	7	4.849	4.849	0.000	7813440	94.9	179.4- 239.4	121.2	
2	8	5.236	5.236	0.000	8488509	95.4	220.9- 280.9	131.7	
2	9	5.405	5.405	0.000	7093140	96.1	149.6- 209.6	110.1	
2	10	5.738	5.738	0.000	4653288	85.0	176.2- 236.2	72.2	
			Average of Peak Amounts =			93.3			
						RPD = 7.18			
11 PCB-1268									
1	1	7.023	7.023	0.000	13568470	103.7		100.0	
1	2	7.074	7.074	0.000	12313575	102.3	60.7- 120.7	90.8	
1	3	7.241	7.241	0.000	10155611	103.7	44.7- 104.7	74.8	
1	4	7.473	7.473	0.000	4335633	104.3	1.1- 61.1	32.0	
1	5	7.683	7.683	0.000	25049960	107.7	199.6- 259.6	184.6	
			Average of Peak Amounts =			104.3			
2	6	7.088	7.088	0.000	32363488	105.1		100.0	
2	7	7.150	7.150	0.000	29514208	105.6	58.5- 118.5	91.2	
2	8	7.287	7.287	0.000	25219241	106.4	44.9- 104.9	77.9	
2	9	7.538	7.538	0.000	10396934	99.2	3.5- 63.5	32.1	
2	10	7.741	7.741	0.000	88463628	105.8	204.5- 264.5	273.3	
			Average of Peak Amounts =			104.4			
						RPD = 0.08			

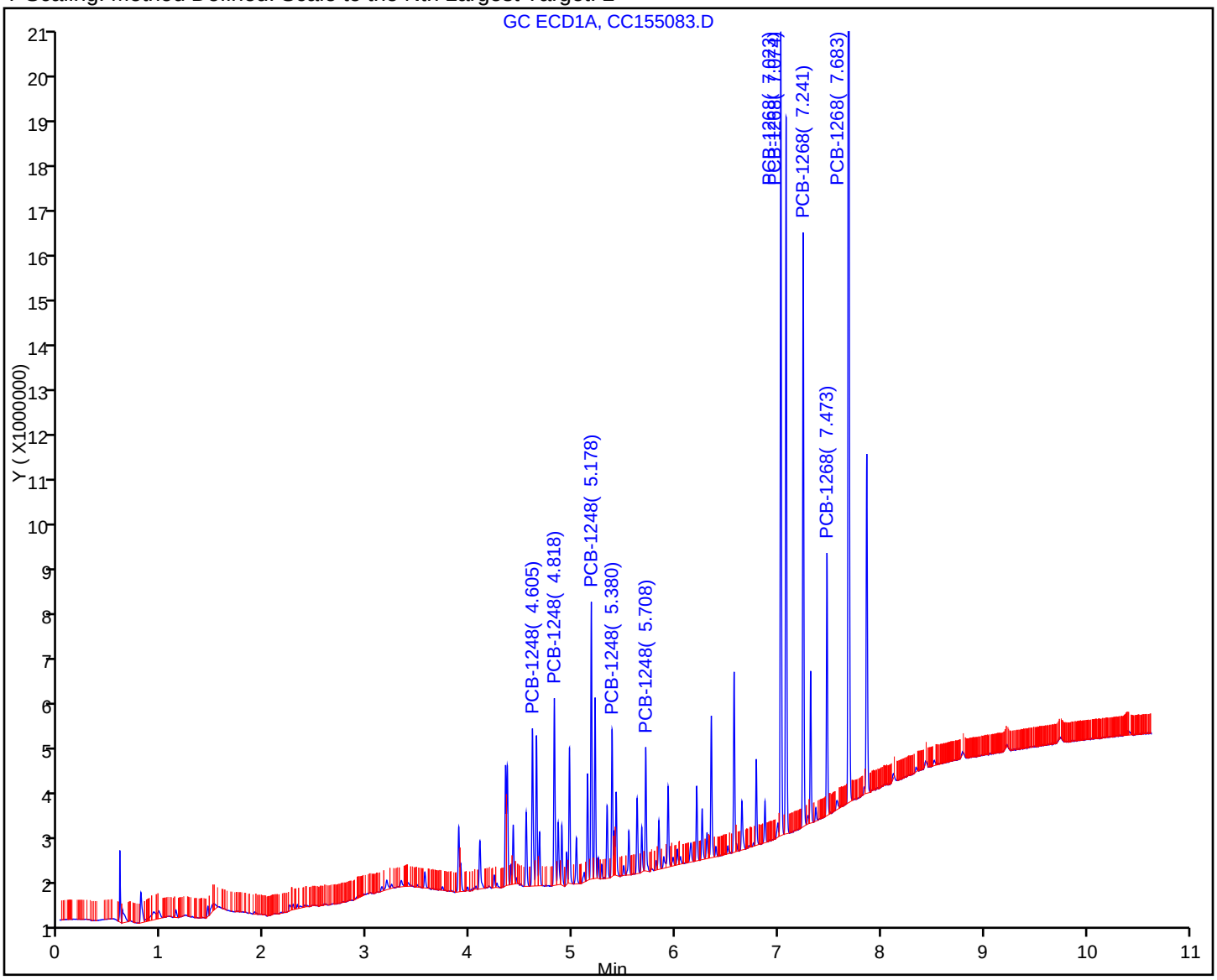
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						204.5			
2						197.7			
						RPD = 3.41			

Report Date: 08-Mar-2011 13:44:17 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155083.D

Injection Date:	03-Mar-2011 18:55:40	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	33
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155084.D
Lims ID: ic std 4868 500 Client ID:
Inject. Date: 03-Mar-2011 19:09:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 29
Sample ID: ic std 4868 500
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 34
Lims Batch ID: 81563 Lims Sample ID: 34
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:23 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:52:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	14055258	460.0		100.0	
1	2	4.818	4.818	0.000	16594634	464.4	59.5- 119.5	118.1	
1	3	5.178	5.178	0.000	23227966	476.6	86.4- 146.4	165.3	
1	4	5.380	5.380	0.000	12848729	472.9	47.5- 107.5	91.4	
1	5	5.709	5.708	0.001	10255319	514.3	121.3- 181.3	73.0	
			Average of Peak Amounts =			477.6			
2	6	4.664	4.664	0.000	30634041	450.8		100.0	
2	7	4.848	4.849	-0.001	37738910	458.2	179.4- 239.4	123.2	
2	8	5.237	5.236	0.001	42613687	479.0	220.9- 280.9	139.1	
2	9	5.404	5.405	-0.001	34600012	469.0	149.6- 209.6	112.9	
2	10	5.738	5.738	0.000	23004099	420.4	176.2- 236.2	75.1	
			Average of Peak Amounts =			455.5			
						RPD = 4.75			
11 PCB-1268									
1	1	7.024	7.023	0.001	66452856	507.7		100.0	
1	2	7.075	7.074	0.001	61163667	508.2	60.7- 120.7	92.0	
1	3	7.243	7.241	0.002	50316288	513.7	44.7- 104.7	75.7	
1	4	7.473	7.473	0.000	20975614	504.8	1.1- 61.1	31.6	
1	5	7.684	7.683	0.001	124602615	535.8	199.6- 259.6	187.5	
			Average of Peak Amounts =			514.0			
2	6	7.088	7.088	0.000	154461804	501.8		100.0	
2	7	7.151	7.150	0.001	141537817	506.4	58.5- 118.5	91.6	
2	8	7.288	7.287	0.001	120324408	507.6	44.9- 104.9	77.9	
2	9	7.538	7.538	0.000	49622740	473.3	3.5- 63.5	32.1	
2	10	7.741	7.741	0.000	433656532	518.8	204.5- 264.5	280.8	
			Average of Peak Amounts =			501.6			
						RPD = 2.45			

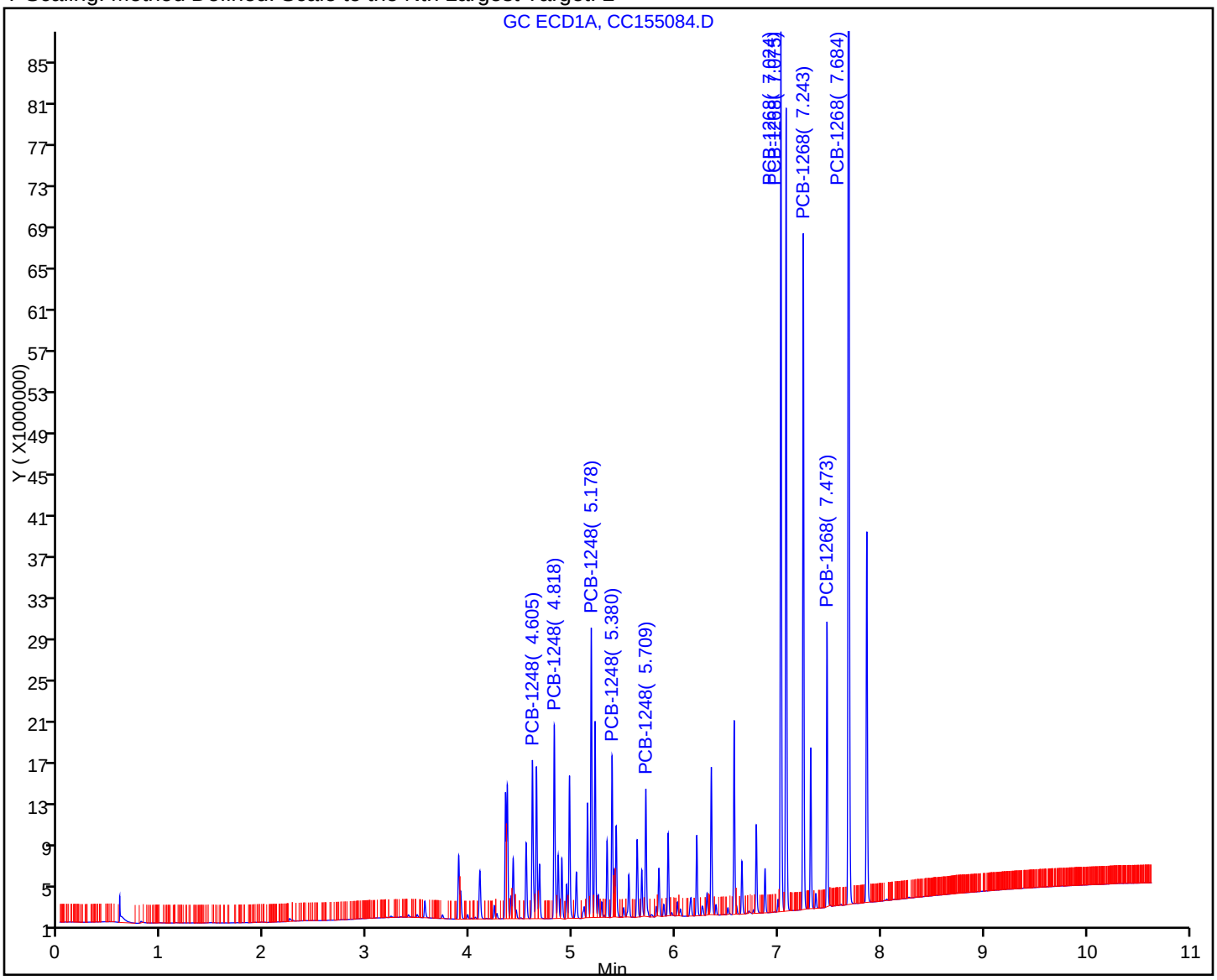
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						991.7			
2						957.1			
						RPD = 3.55			

Report Date: 08-Mar-2011 13:44:23 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155084.D

Injection Date:	03-Mar-2011 19:09:55	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	34
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Lims ID: ic std 4868 1000 Client ID:
Inject. Date: 03-Mar-2011 19:24:02 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 30
Sample ID: ic std 4868 10000
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 35
Lims Batch ID: 81563 Lims Sample ID: 35
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:29 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:17:54

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	26776773	876.3		100.0	
1	2	4.818	4.818	0.000	31928064	893.6	59.5- 119.5	119.2	
1	3	5.178	5.178	0.000	44584755	914.8	86.4- 146.4	166.5	
1	4	5.380	5.380	0.000	24580547	904.8	47.5- 107.5	91.8	
1	5	5.709	5.708	0.001	19597648	988.7	121.3- 181.3	73.2	
			Average of Peak Amounts =			915.6			
2	6	4.664	4.664	0.000	58381222	859.0		100.0	
2	7	4.849	4.849	0.000	71836759	872.1	179.4- 239.4	123.0	
2	8	5.237	5.236	0.001	80361930	903.4	220.9- 280.9	137.7	
2	9	5.405	5.405	0.000	63628875	862.5	149.6- 209.6	109.0	
2	10	5.737	5.738	-0.001	43690961	798.4	176.2- 236.2	74.8	
			Average of Peak Amounts =			859.1			
						RPD = 6.37			
11 PCB-1268									
1	1	7.023	7.023	0.000	127860441	976.8		100.0	
1	2	7.074	7.074	0.000	118259087	982.6	60.7- 120.7	92.5	
1	3	7.241	7.241	0.000	98097574	1001.6	44.7- 104.7	76.7	
1	4	7.473	7.473	0.000	40795624	981.8	1.1- 61.1	31.9	
1	5	7.684	7.683	0.001	254045537	1092.3	199.6- 259.6	198.7	
			Average of Peak Amounts =			1007.0			
2	6	7.088	7.088	0.000	303230781	985.1		100.0	
2	7	7.150	7.150	0.000	277752462	993.7	58.5- 118.5	91.6	
2	8	7.287	7.287	0.000	234922495	991.1	44.9- 104.9	77.5	
2	9	7.538	7.538	0.000	96648651	921.9	3.5- 63.5	31.9	
2	10	7.742	7.741	0.001	844483628	1010.3	204.5- 264.5	278.5	
			Average of Peak Amounts =			980.4			
						RPD = 2.68			

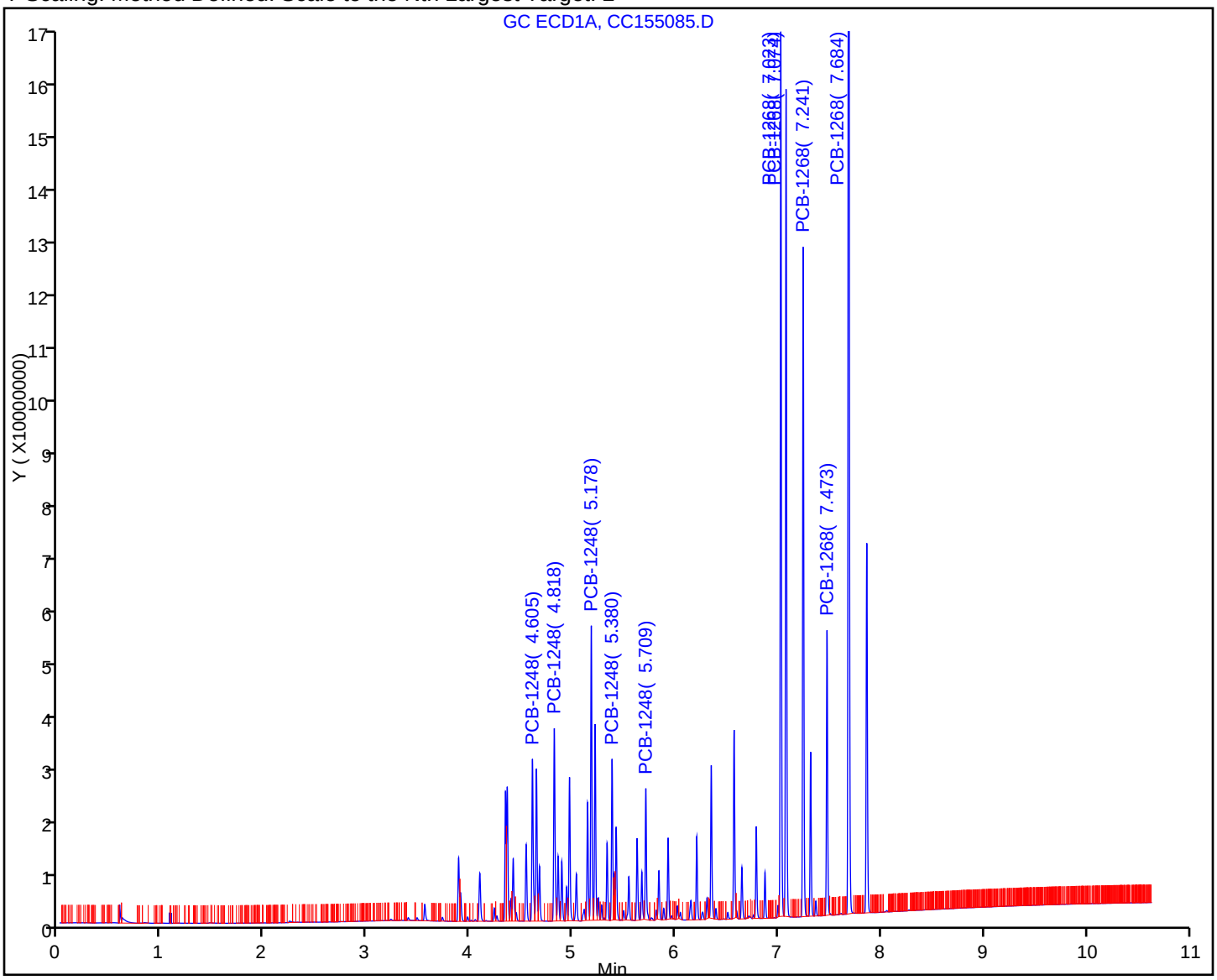
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						1922.7			
2						1839.5			
						RPD = 4.42			

Report Date: 08-Mar-2011 13:44:29 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D

Injection Date:	03-Mar-2011 19:24:02	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	35
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 18:13 Calibration End Date: 03/03/2011 19:24 Calibration ID: 7375

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/30	CC155080.D
Level 2	IC 580-81563/31	CC155081.D
Level 3	IC 580-81563/32	CC155082.D
Level 4	IC 580-81563/33	CC155083.D
Level 5	IC 580-81563/34	CC155084.D
Level 6	IC 580-81563/35	CC155085.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
PCB-1248 Peak 1	4.664	4.665	4.664	4.664	4.664	4.664					4.634 - 4.694	4.664
PCB-1248 Peak 2	4.850	4.849	4.849	4.849	4.848	4.849					4.819 - 4.879	4.849
PCB-1248 Peak 3	5.236	5.236	5.236	5.236	5.237	5.237					5.206 - 5.266	5.236
PCB-1248 Peak 4	5.405	5.405	5.405	5.405	5.404	5.405					5.375 - 5.435	5.405
PCB-1248 Peak 5	5.738	5.738	5.737	5.738	5.738	5.737					5.708 - 5.768	5.738
PCB-1268 Peak 1	7.089	7.089	7.088	7.088	7.088	7.088					7.058 - 7.118	7.088
PCB-1268 Peak 2	7.151	7.150	7.151	7.150	7.151	7.150					7.120 - 7.180	7.151
PCB-1268 Peak 3	7.287	7.287	7.287	7.287	7.288	7.287					7.257 - 7.317	7.287
PCB-1268 Peak 4	7.539	7.540	7.538	7.538	7.538	7.538					7.508 - 7.568	7.539
PCB-1268 Peak 5	7.741	7.741	7.741	7.741	7.741	7.742					7.711 - 7.771	7.741

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 18:13 Calibration End Date: 03/03/2011 19:24 Calibration ID: 7375

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/30	CC155080.D
Level 2	IC 580-81563/31	CC155081.D
Level 3	IC 580-81563/32	CC155082.D
Level 4	IC 580-81563/33	CC155083.D
Level 5	IC 580-81563/34	CC155084.D
Level 6	IC 580-81563/35	CC155085.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
PCB-1248 Peak 1	87206 61213	67129 58329	69507	64386	Ave		67961.7434				15.0		20.0			
PCB-1248 Peak 2	106885 75410	78962 71772	83129	78064	Ave		82370.5097				15.0		20.0			
PCB-1248 Peak 3	115133 85151	79023 80290	89346	84809	Ave		88958.4964				15.0		20.0			
PCB-1248 Peak 4	99679 69138	66183 63572	73202	70868	Ave		73773.4304				18.0		20.0			
PCB-1248 Peak 5	98708 45967	43775 43652	49740	46491	Ave		54722.2282				40.0	*	20.0			
PCB-1268 Peak 1	348543 303760	274256 298162	303882	318225	Ave		307804.721				8.0		20.0			
PCB-1268 Peak 2	308538 278344	247314 273110	279633	290209	Ave		279524.470				7.2		20.0			
PCB-1268 Peak 3	258979 236626	210878 230996	236697	247977	Ave		237025.448				6.9		20.0			
PCB-1268 Peak 4	112341 97587	124246 95033	97609	102231	Ave		104840.985				11.0		20.0			
PCB-1268 Peak 5	877504 852815	735652 830367	849038	869849	Ave		835870.985				6.2		20.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Seattle Job No.: 580-27645-1 Analy Batch No.: 81563

SDG No.:

Instrument ID: TAC042 GC Column: ZB-MR-1 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/03/2011 18:13 Calibration End Date: 03/03/2011 19:24 Calibration ID: 7375

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-81563/30	CC155080.D
Level 2	IC 580-81563/31	CC155081.D
Level 3	IC 580-81563/32	CC155082.D
Level 4	IC 580-81563/33	CC155083.D
Level 5	IC 580-81563/34	CC155084.D
Level 6	IC 580-81563/35	CC155085.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	872844 58381222	1343794	3478494	6444417	30634041	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 2	Ave	1069816 71836759	1580662	4160209	7813440	37738910	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 3	Ave	1152363 80361930	1581880	4471333	8488509	42613687	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 4	Ave	997691 63628875	1324842	3663373	7093140	34600012	10.0 1001	20.0	50.0	100	500
PCB-1248 Peak 5	Ave	987971 43690961	876293	2489254	4653288	23004099	10.0 1001	20.0	50.0	100	500
PCB-1268 Peak 1	Ave	3544684 303230781	5578370	15452412	32363488	154461804	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 2	Ave	3137827 277752462	5030374	14219337	29514208	141537817	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 3	Ave	2633820 234922495	4289250	12036053	25219241	120324408	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 4	Ave	1142505 96648651	2527154	4963401	10396934	49622740	10.2 1017	20.3	50.9	102	509
PCB-1268 Peak 5	Ave	8924214 844483628	14963168	43173599	88463628	433656532	10.2 1017	20.3	50.9	102	509

Curve Type Legend:
Ave = Average

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155080.D
Lims ID: ic std 4868 10 Client ID:
Inject. Date: 03-Mar-2011 18:13:20 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 25
Sample ID: ic std 4868 10
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 30
Lims Batch ID: 81563 Lims Sample ID: 30
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:43:59 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:51:29

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	373703	12.2		100.0	
1	2	4.819	4.818	0.001	449997	12.6	59.5- 119.5	120.4	
1	3	5.179	5.178	0.001	618818	12.7	86.4- 146.4	165.6	
1	4	5.380	5.380	0.000	350633	12.9	47.5- 107.5	93.8	
1	5	5.710	5.708	0.002	391131	13.3	121.3- 181.3	104.7	
			Average of Peak Amounts =			12.7			
2	6	4.664	4.664	0.000	872844	12.8		100.0	
2	7	4.850	4.849	0.001	1069816	13.0	179.4- 239.4	122.6	
2	8	5.236	5.236	0.000	1152363	13.0	220.9- 280.9	132.0	
2	9	5.405	5.405	0.000	997691	13.5	149.6- 209.6	114.3	
2	10	5.738	5.738	0.000	987971	18.1	176.2- 236.2	113.2	
			Average of Peak Amounts =			14.1			
						RPD = 9.95			
11 PCB-1268									M
1	1	7.024	7.023	0.001	1470863	11.2		100.0	
1	2	7.075	7.074	0.001	1406643	11.7	60.7- 120.7	95.6	
1	3	7.241	7.241	0.000	1073470	11.0	44.7- 104.7	73.0	
1	4	7.473	7.473	0.000	474755	11.4	1.1- 61.1	32.3	
1	5	7.684	7.683	0.001	2396360	10.3	199.6- 259.6	162.9	
			Average of Peak Amounts =			11.1			
2	6	7.089	7.088	0.001	3544684	11.5		100.0	
2	7	7.151	7.150	0.001	3137827	11.2	58.5- 118.5	88.5	
2	8	7.287	7.287	0.000	2633820	11.1	44.9- 104.9	74.3	
2	9	7.539	7.538	0.001	1142505	10.9	3.5- 63.5	32.2	
2	10	7.741	7.741	0.000	8924214	10.7	204.5- 264.5	251.8	M
			Average of Peak Amounts =			11.1			
						RPD = 0.34			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						23.9			
2						25.2			
						RPD = 5.29			

QC Flag Legend

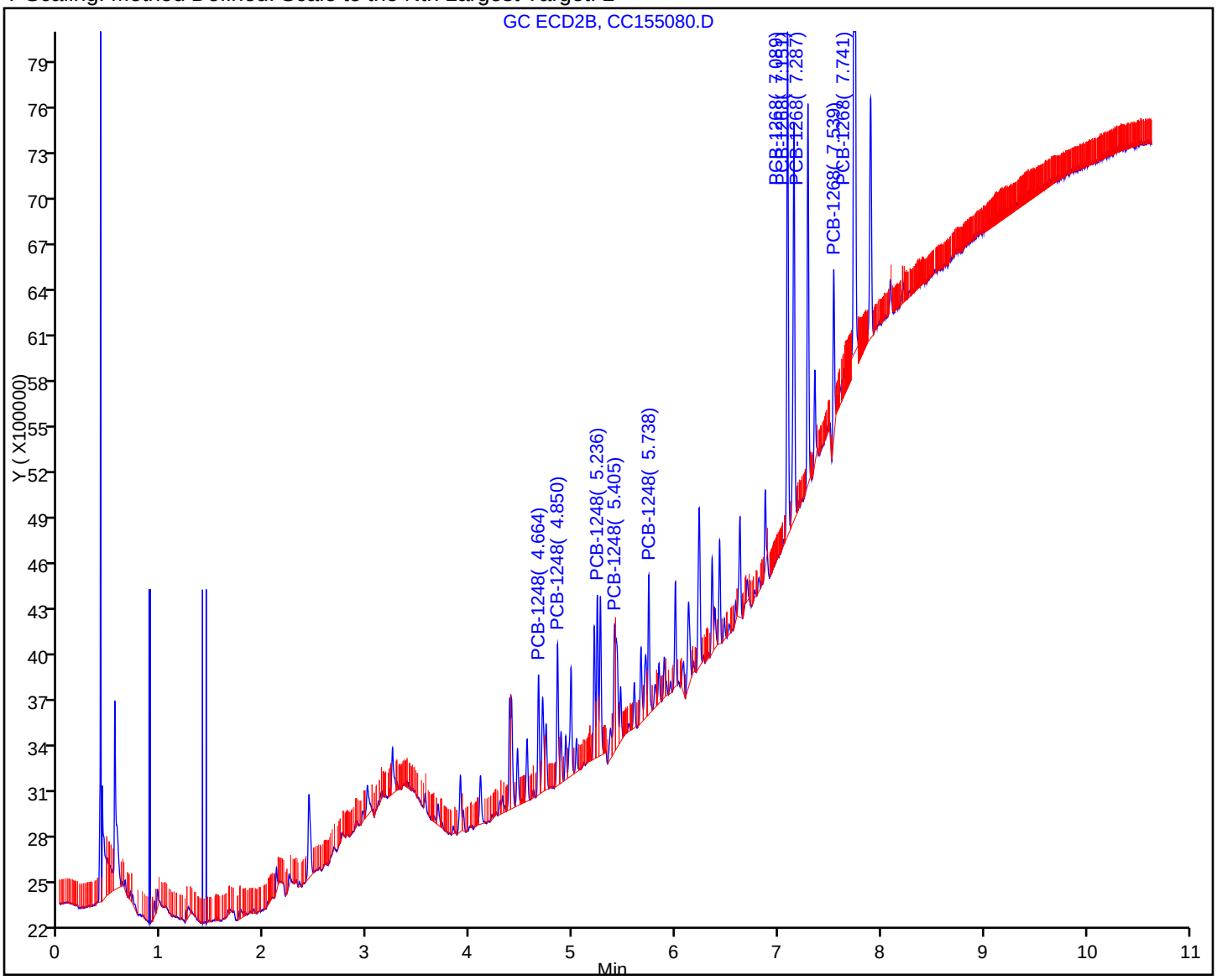
Review Flags
M - Manually Integrated

Report Date: 08-Mar-2011 13:43:59 Chrom Revision: 1.2 17-Feb-2011 18:05:56

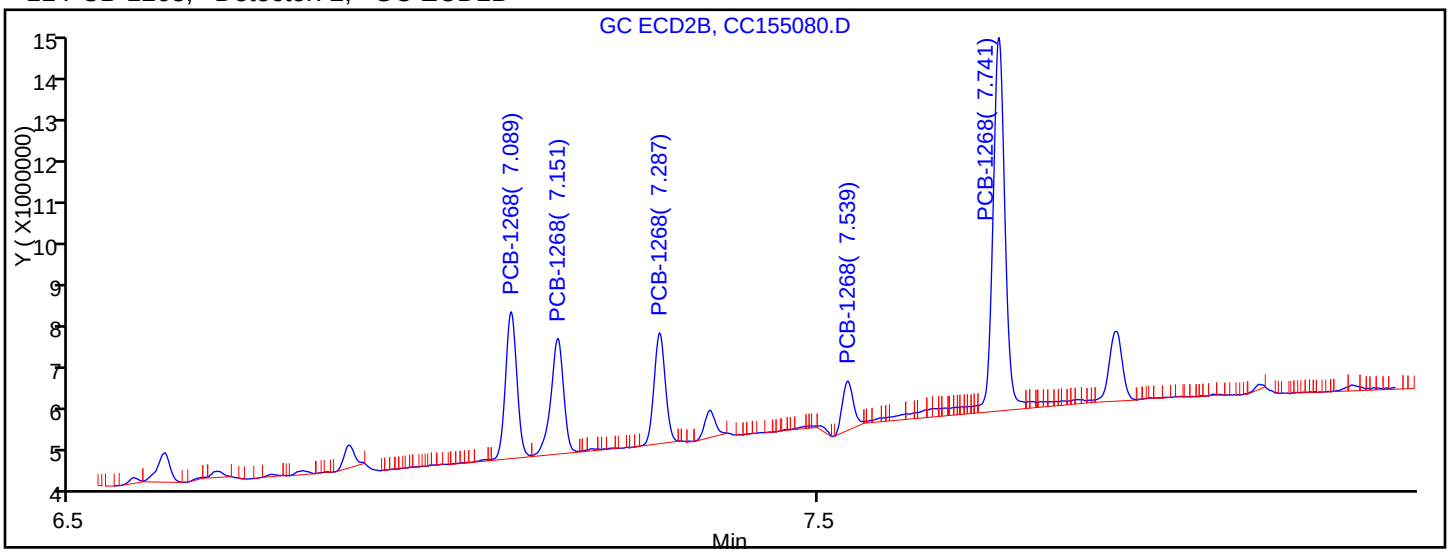
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155080.D

Injection Date:	03-Mar-2011 18:13:20	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	30
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

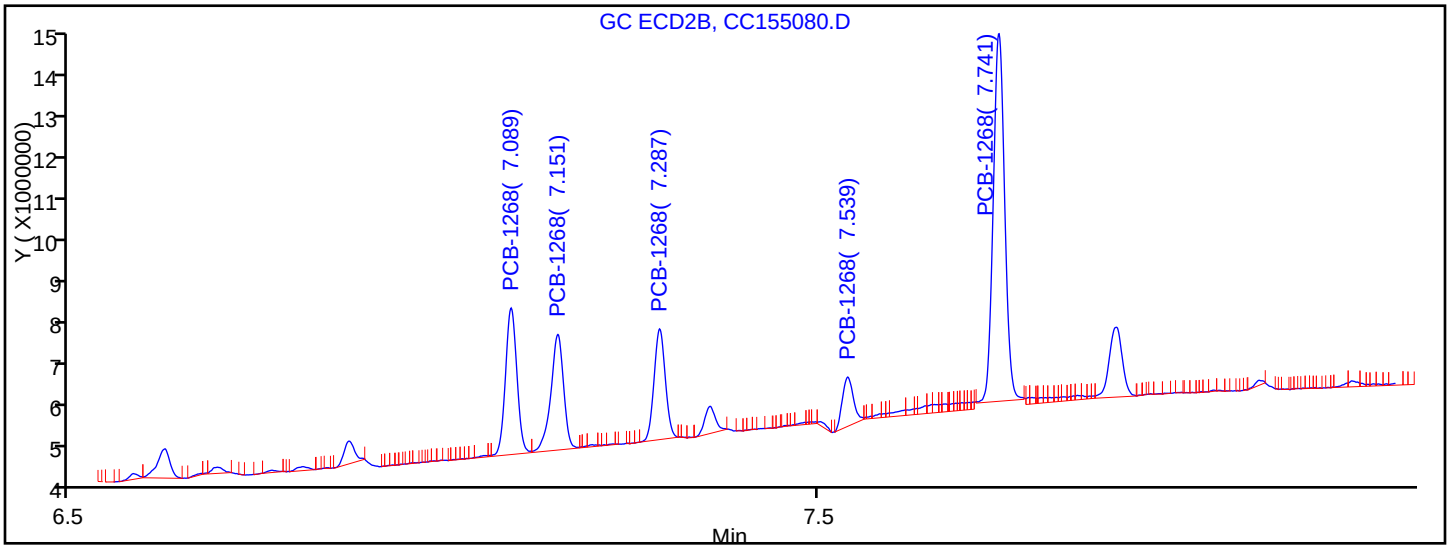


Report Date: 08-Mar-2011 13:43:59 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155080.D
Injection Date: 03-Mar-2011 18:13:20 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 30
Operator ID: mam Injection Vol: 1.00 ul
11 PCB-1268, Detector: 2, GC ECD2B



Processing Integration Results

RT = 7.089	Response = 3544684	
RT = 7.151	Response = 3137827	
RT = 7.287	Response = 2633820	
RT = 7.539	Response = 1142505	
RT = 7.741	Response = 9413852	M



Manual Integration Results

RT = 7.089	Response = 3544684	
RT = 7.151	Response = 3137827	
RT = 7.287	Response = 2633820	
RT = 7.539	Response = 1142505	
RT = 7.741	Response = 8924214	M

Reviewer: muirm, 08-Mar-2011 10:51:29
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155081.D
Lims ID: ic std 4868 20 Client ID:
Inject. Date: 03-Mar-2011 18:27:29 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 26
Sample ID: ic std 4868 20
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 31
Lims Batch ID: 81563 Lims Sample ID: 31
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:05 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:51:44

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	575066	18.8		100.0	
1	2	4.818	4.818	0.000	660403	18.5	59.5- 119.5	114.8	
1	3	5.178	5.178	0.000	900139	18.5	86.4- 146.4	156.5	
1	4	5.380	5.380	0.000	498459	18.3	47.5- 107.5	86.7	
1	5	5.709	5.708	0.001	390478	13.2	121.3- 181.3	67.9	
			Average of Peak Amounts =			17.5			
2	6	4.665	4.664	0.001	1343794	19.8		100.0	
2	7	4.849	4.849	0.000	1580662	19.2	179.4- 239.4	117.6	
2	8	5.236	5.236	0.000	1581880	17.8	220.9- 280.9	117.7	
2	9	5.405	5.405	0.000	1324842	18.0	149.6- 209.6	98.6	
2	10	5.738	5.738	0.000	876293	16.0	176.2- 236.2	65.2	
			Average of Peak Amounts =			18.1			
						RPD = 3.78			
11 PCB-1268									
1	1	7.024	7.023	0.001	2417667	18.5		100.0	
1	2	7.075	7.074	0.001	2169275	18.0	60.7- 120.7	89.7	
1	3	7.242	7.241	0.001	1791333	18.3	44.7- 104.7	74.1	
1	4	7.473	7.473	0.000	743692	17.9	1.1- 61.1	30.8	
1	5	7.684	7.683	0.001	3962893	17.0	199.6- 259.6	163.9	
			Average of Peak Amounts =			17.9			
2	6	7.089	7.088	0.001	5578370	18.1		100.0	
2	7	7.150	7.150	0.000	5030374	18.0	58.5- 118.5	90.2	
2	8	7.287	7.287	0.000	4289250	18.1	44.9- 104.9	76.9	
2	9	7.540	7.538	0.002	2527154	24.1	3.5- 63.5	45.3	
2	10	7.741	7.741	0.000	14963168	17.9	204.5- 264.5	268.2	
			Average of Peak Amounts =			19.2			
						RPD = 6.99			

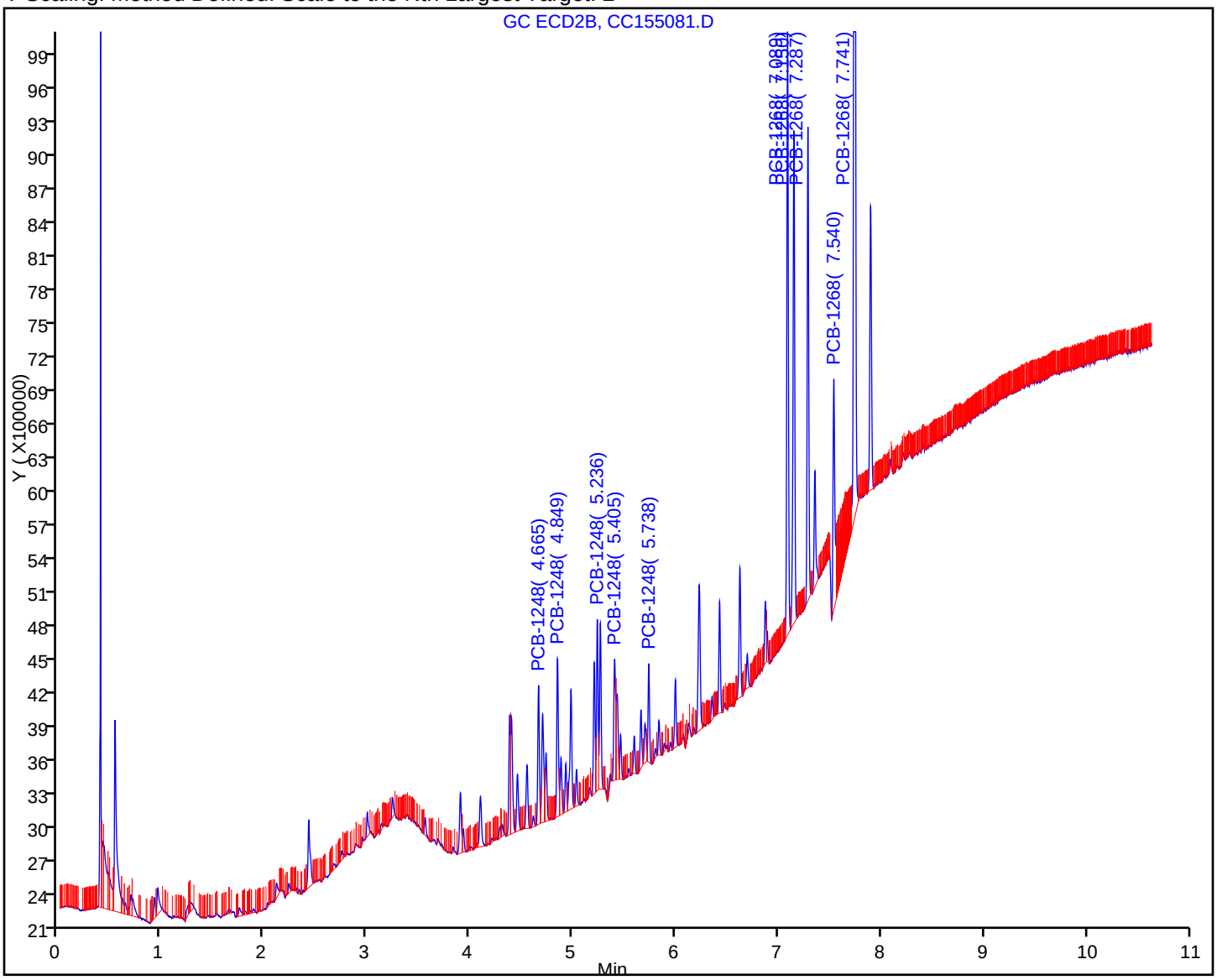
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						35.4			
2						37.4			
						RPD = 5.42			

Report Date: 08-Mar-2011 13:44:05 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155081.D

Injection Date:	03-Mar-2011 18:27:29	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	31
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155082.D
Lims ID: ic std 4868 50 Client ID:
Inject. Date: 03-Mar-2011 18:41:33 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 27
Sample ID: ic std 4868 50
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 32
Lims Batch ID: 81563 Lims Sample ID: 32
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:10 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:52:00

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.606	4.605	0.001	1564474	51.2		100.0	
1	2	4.818	4.818	0.000	1778775	49.8	59.5- 119.5	113.7	
1	3	5.178	5.178	0.000	2360523	48.4	86.4- 146.4	150.9	
1	4	5.380	5.380	0.000	1326659	48.8	47.5- 107.5	84.8	
1	5	5.709	5.708	0.001	1075604	48.0	121.3- 181.3	68.8	
			Average of Peak Amounts =			49.3			
2	6	4.664	4.664	0.000	3478494	51.2		100.0	
2	7	4.849	4.849	0.000	4160209	50.5	179.4- 239.4	119.6	
2	8	5.236	5.236	0.000	4471333	50.3	220.9- 280.9	128.5	
2	9	5.405	5.405	0.000	3663373	49.7	149.6- 209.6	105.3	
2	10	5.737	5.738	-0.001	2489254	45.5	176.2- 236.2	71.6	
			Average of Peak Amounts =			49.4			
						RPD = 0.33			
11 PCB-1268									
1	1	7.024	7.023	0.001	6713995	51.3		100.0	
1	2	7.075	7.074	0.001	6077797	50.5	60.7- 120.7	90.5	
1	3	7.241	7.241	0.000	5021444	51.3	44.7- 104.7	74.8	
1	4	7.474	7.473	0.001	2139891	51.5	1.1- 61.1	31.9	
1	5	7.684	7.683	0.001	11382176	48.9	199.6- 259.6	169.5	
			Average of Peak Amounts =			50.7			
2	6	7.088	7.088	0.000	15452412	50.2		100.0	
2	7	7.151	7.150	0.001	14219337	50.9	58.5- 118.5	92.0	
2	8	7.287	7.287	0.000	12036053	50.8	44.9- 104.9	77.9	
2	9	7.538	7.538	0.000	4963401	47.3	3.5- 63.5	32.1	
2	10	7.741	7.741	0.000	43173599	51.7	204.5- 264.5	279.4	
			Average of Peak Amounts =			50.2			
						RPD = 1.05			

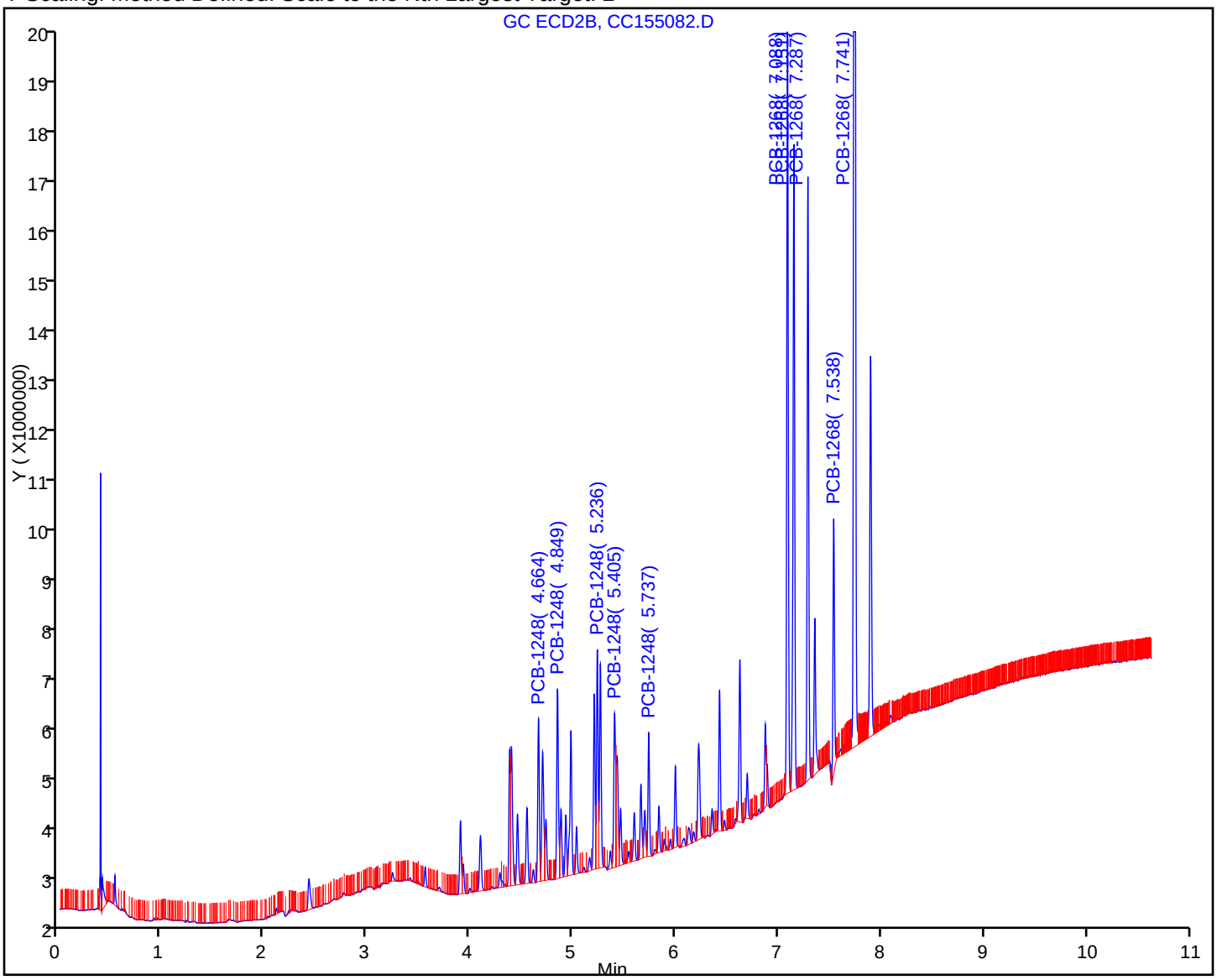
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						100.0			
2						99.6			
						RPD = 0.37			

Report Date: 08-Mar-2011 13:44:11 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155082.D

Injection Date:	03-Mar-2011 18:41:33	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	32
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155083.D
Lims ID: ic std 4868 100 Client ID:
Inject. Date: 03-Mar-2011 18:55:40 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 28
Sample ID: ic std 4868 100
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 33
Lims Batch ID: 81563 Lims Sample ID: 33
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:17 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:52:17

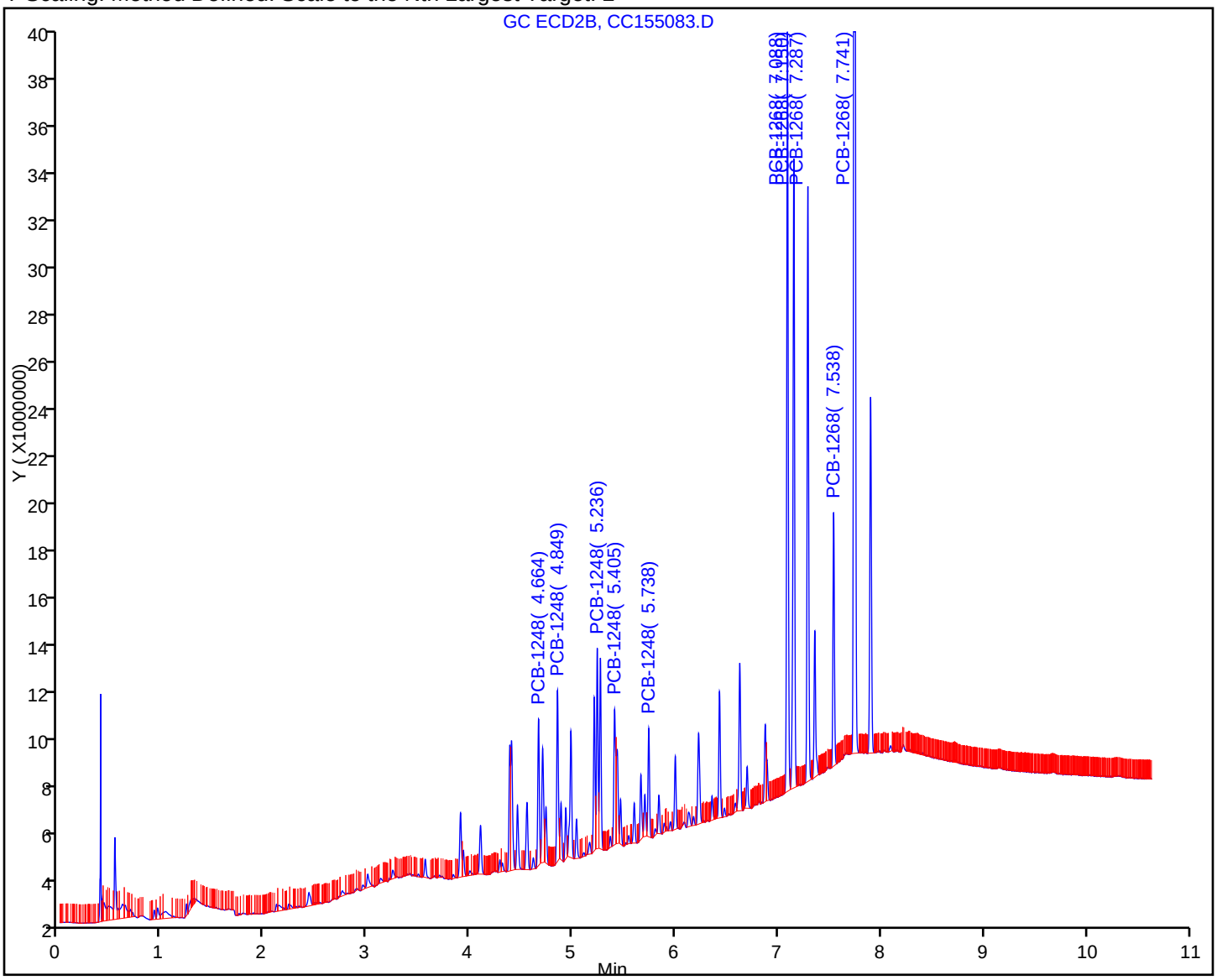
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	3119443	102.1		100.0	
1	2	4.818	4.818	0.000	3586821	100.4	59.5- 119.5	115.0	
1	3	5.178	5.178	0.000	4753835	97.5	86.4- 146.4	152.4	
1	4	5.380	5.380	0.000	2635539	97.0	47.5- 107.5	84.5	
1	5	5.708	5.708	0.000	2177518	104.0	121.3- 181.3	69.8	
			Average of Peak Amounts =			100.2			
2	6	4.664	4.664	0.000	6444417	94.8		100.0	
2	7	4.849	4.849	0.000	7813440	94.9	179.4- 239.4	121.2	
2	8	5.236	5.236	0.000	8488509	95.4	220.9- 280.9	131.7	
2	9	5.405	5.405	0.000	7093140	96.1	149.6- 209.6	110.1	
2	10	5.738	5.738	0.000	4653288	85.0	176.2- 236.2	72.2	
			Average of Peak Amounts =			93.3			
						RPD = 7.18			
11 PCB-1268									
1	1	7.023	7.023	0.000	13568470	103.7		100.0	
1	2	7.074	7.074	0.000	12313575	102.3	60.7- 120.7	90.8	
1	3	7.241	7.241	0.000	10155611	103.7	44.7- 104.7	74.8	
1	4	7.473	7.473	0.000	4335633	104.3	1.1- 61.1	32.0	
1	5	7.683	7.683	0.000	25049960	107.7	199.6- 259.6	184.6	
			Average of Peak Amounts =			104.3			
2	6	7.088	7.088	0.000	32363488	105.1		100.0	
2	7	7.150	7.150	0.000	29514208	105.6	58.5- 118.5	91.2	
2	8	7.287	7.287	0.000	25219241	106.4	44.9- 104.9	77.9	
2	9	7.538	7.538	0.000	10396934	99.2	3.5- 63.5	32.1	
2	10	7.741	7.741	0.000	88463628	105.8	204.5- 264.5	273.3	
			Average of Peak Amounts =			104.4			
						RPD = 0.08			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						204.5			
2						197.7			
						RPD = 3.41			

Report Date: 08-Mar-2011 13:44:17 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155083.D		
Injection Date:	03-Mar-2011 18:55:40	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	33
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155084.D
Lims ID: ic std 4868 500 Client ID:
Inject. Date: 03-Mar-2011 19:09:55 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 29
Sample ID: ic std 4868 500
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 34
Lims Batch ID: 81563 Lims Sample ID: 34
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

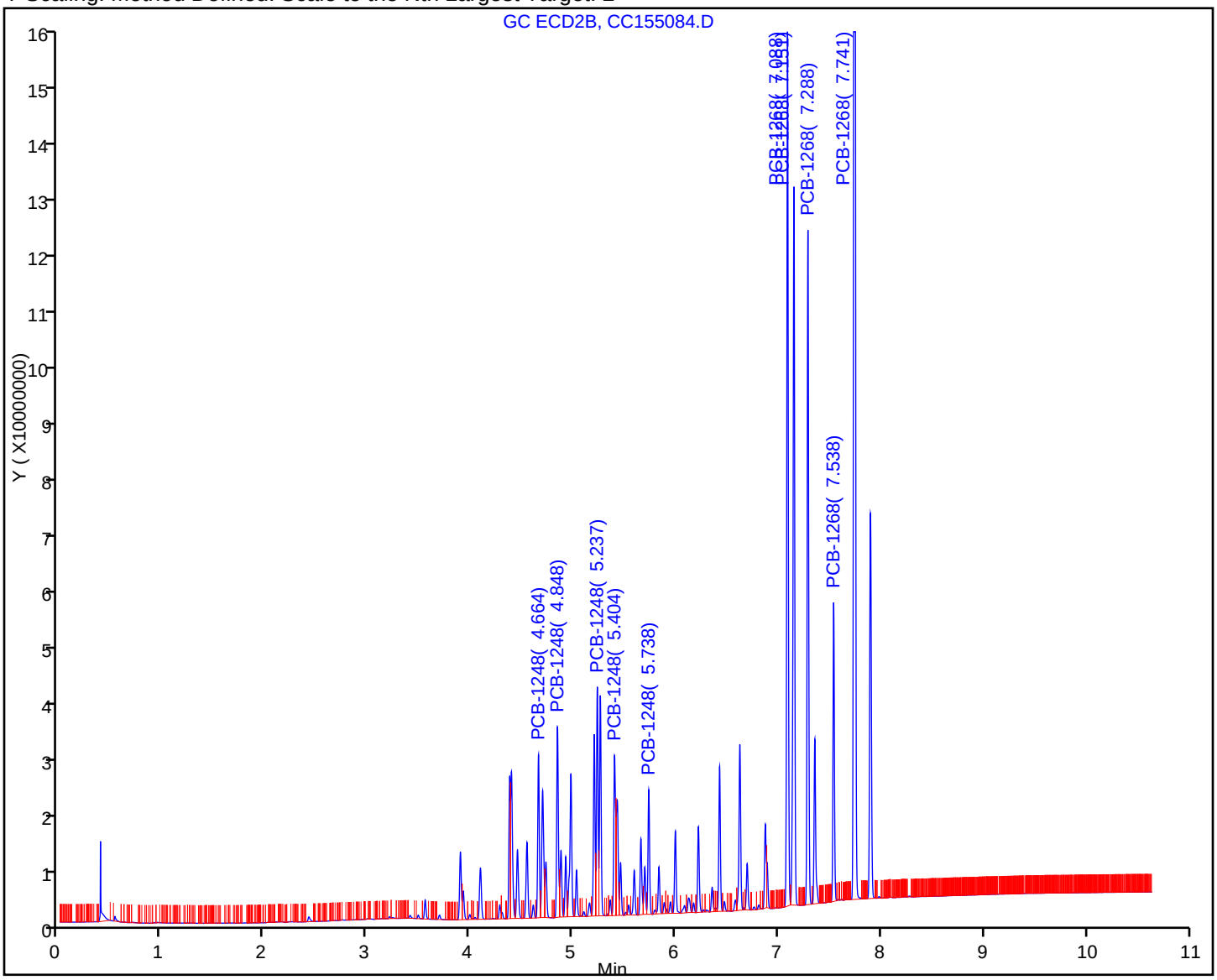
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:23 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:52:33

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	14055258	460.0		100.0	
1	2	4.818	4.818	0.000	16594634	464.4	59.5- 119.5	118.1	
1	3	5.178	5.178	0.000	23227966	476.6	86.4- 146.4	165.3	
1	4	5.380	5.380	0.000	12848729	472.9	47.5- 107.5	91.4	
1	5	5.709	5.708	0.001	10255319	514.3	121.3- 181.3	73.0	
			Average of Peak Amounts =			477.6			
2	6	4.664	4.664	0.000	30634041	450.8		100.0	
2	7	4.848	4.849	-0.001	37738910	458.2	179.4- 239.4	123.2	
2	8	5.237	5.236	0.001	42613687	479.0	220.9- 280.9	139.1	
2	9	5.404	5.405	-0.001	34600012	469.0	149.6- 209.6	112.9	
2	10	5.738	5.738	0.000	23004099	420.4	176.2- 236.2	75.1	
			Average of Peak Amounts =			455.5			
						RPD = 4.75			
11 PCB-1268									
1	1	7.024	7.023	0.001	66452856	507.7		100.0	
1	2	7.075	7.074	0.001	61163667	508.2	60.7- 120.7	92.0	
1	3	7.243	7.241	0.002	50316288	513.7	44.7- 104.7	75.7	
1	4	7.473	7.473	0.000	20975614	504.8	1.1- 61.1	31.6	
1	5	7.684	7.683	0.001	124602615	535.8	199.6- 259.6	187.5	
			Average of Peak Amounts =			514.0			
2	6	7.088	7.088	0.000	154461804	501.8		100.0	
2	7	7.151	7.150	0.001	141537817	506.4	58.5- 118.5	91.6	
2	8	7.288	7.287	0.001	120324408	507.6	44.9- 104.9	77.9	
2	9	7.538	7.538	0.000	49622740	473.3	3.5- 63.5	32.1	
2	10	7.741	7.741	0.000	433656532	518.8	204.5- 264.5	280.8	
			Average of Peak Amounts =			501.6			
						RPD = 2.45			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						991.7			
2						957.1			
						RPD = 3.55			

Report Date: 08-Mar-2011 13:44:24 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155084.D
Injection Date: 03-Mar-2011 19:09:55 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 34
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Lims ID: ic std 4868 1000 Client ID:
Inject. Date: 03-Mar-2011 19:24:02 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 30
Sample ID: ic std 4868 10000
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 35
Lims Batch ID: 81563 Lims Sample ID: 35
Sublist: chrom-8082_TAC042*sub5
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

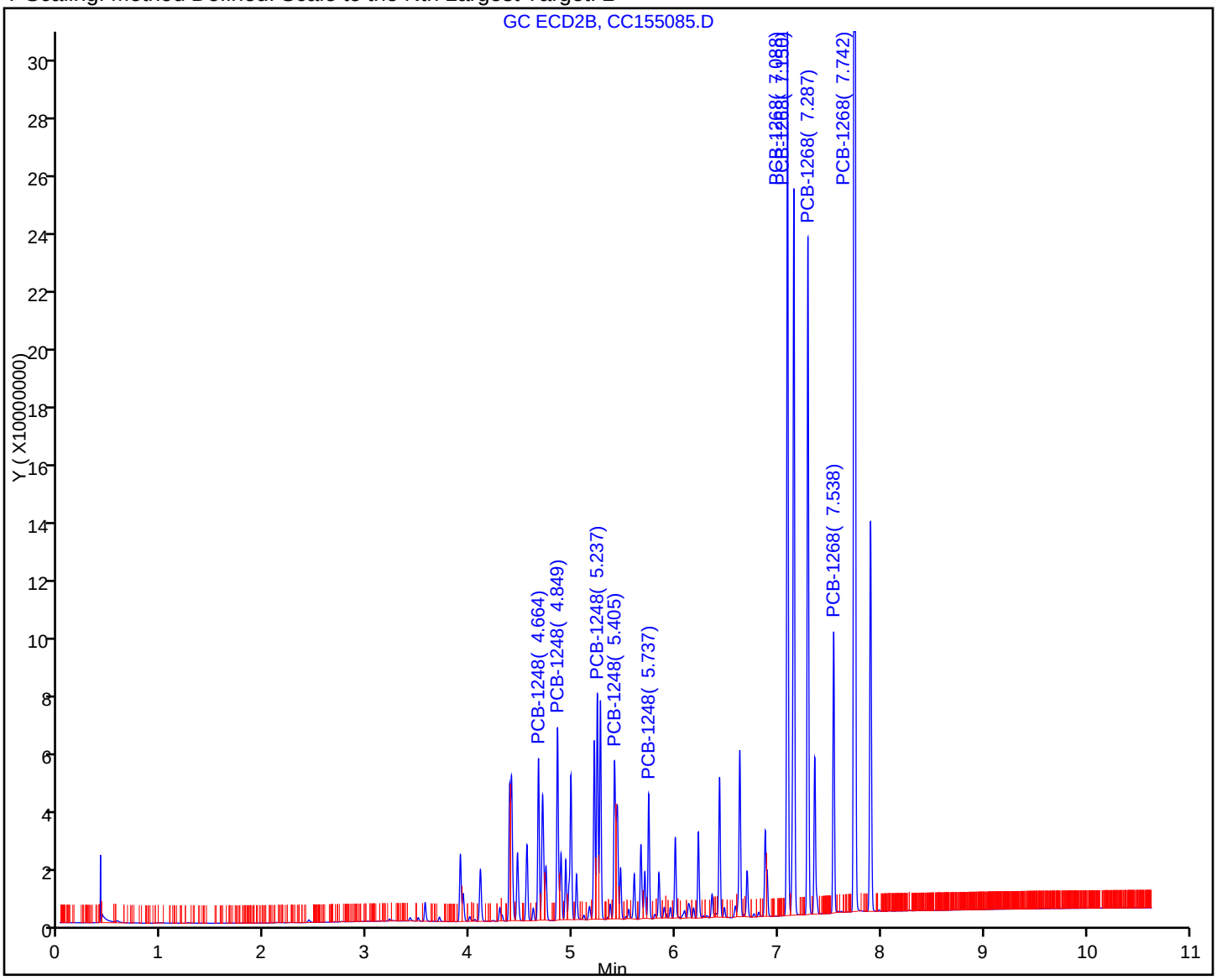
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:29 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 13:17:54

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
7 PCB-1248									
1	1	4.605	4.605	0.000	26776773	876.3		100.0	
1	2	4.818	4.818	0.000	31928064	893.6	59.5- 119.5	119.2	
1	3	5.178	5.178	0.000	44584755	914.8	86.4- 146.4	166.5	
1	4	5.380	5.380	0.000	24580547	904.8	47.5- 107.5	91.8	
1	5	5.709	5.708	0.001	19597648	988.7	121.3- 181.3	73.2	
			Average of Peak Amounts =			915.6			
2	6	4.664	4.664	0.000	58381222	859.0		100.0	
2	7	4.849	4.849	0.000	71836759	872.1	179.4- 239.4	123.0	
2	8	5.237	5.236	0.001	80361930	903.4	220.9- 280.9	137.7	
2	9	5.405	5.405	0.000	63628875	862.5	149.6- 209.6	109.0	
2	10	5.737	5.738	-0.001	43690961	798.4	176.2- 236.2	74.8	
			Average of Peak Amounts =			859.1			
						RPD = 6.37			
11 PCB-1268									
1	1	7.023	7.023	0.000	127860441	976.8		100.0	
1	2	7.074	7.074	0.000	118259087	982.6	60.7- 120.7	92.5	
1	3	7.241	7.241	0.000	98097574	1001.6	44.7- 104.7	76.7	
1	4	7.473	7.473	0.000	40795624	981.8	1.1- 61.1	31.9	
1	5	7.684	7.683	0.001	254045537	1092.3	199.6- 259.6	198.7	
			Average of Peak Amounts =			1007.0			
2	6	7.088	7.088	0.000	303230781	985.1		100.0	
2	7	7.150	7.150	0.000	277752462	993.7	58.5- 118.5	91.6	
2	8	7.287	7.287	0.000	234922495	991.1	44.9- 104.9	77.5	
2	9	7.538	7.538	0.000	96648651	921.9	3.5- 63.5	31.9	
2	10	7.742	7.741	0.001	844483628	1010.3	204.5- 264.5	278.5	
			Average of Peak Amounts =			980.4			
						RPD = 2.68			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
S 12 Polychlorinated biphenyls, Total									
1						1922.7			
2						1839.5			
						RPD = 4.42			

Report Date: 08-Mar-2011 13:44:29 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Injection Date: 03-Mar-2011 19:24:02 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 35
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/8 Calibration Date: 03/03/2011 10:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155053.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	26078	26330		101	100	1.0	20.0
PCB-1016 Peak 2	Ave	25989	27076		104	100	4.2	20.0
PCB-1016 Peak 3	Ave	46857	48305		103	100	3.1	20.0
PCB-1016 Peak 4	Lin1		23816		112	100	11.5	20.0
PCB-1016 Peak 5	Ave	26749	27178		102	100	1.6	20.0
PCB-1260 Peak 1	Ave	51857	49784		96.0	100	-4.0	20.0
PCB-1260 Peak 2	Lin1		63725		111	100	10.6	20.0
PCB-1260 Peak 3	Lin1		80425		112	100	12.2	20.0
PCB-1260 Peak 4	Ave	91214	97648		107	100	7.1	20.0
PCB-1260 Peak 5	Ave	71029	74641		105	100	5.1	20.0
Tetrachloro-m-xylene	Ave	1031214	1040209		10.1	10.0	0.9	20.0
DCB Decachlorobiphenyl	Lin1		819555		11.1	10.0	11.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/8 Calibration Date: 03/03/2011 10:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155053.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.89	3.86	3.92
PCB-1016 Peak 2	4.09	4.07	4.13
PCB-1016 Peak 3	4.36	4.33	4.39
PCB-1016 Peak 4	4.61	4.58	4.64
PCB-1016 Peak 5	4.82	4.79	4.85
PCB-1260 Peak 1	5.84	5.81	5.87
PCB-1260 Peak 2	6.02	5.99	6.05
PCB-1260 Peak 3	6.31	6.28	6.34
PCB-1260 Peak 4	6.79	6.76	6.82
PCB-1260 Peak 5	7.07	7.04	7.10
Tetrachloro-m-xylene	3.16	3.13	3.19
DCB Decachlorobiphenyl	7.86	7.83	7.89

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155053.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 10:59:05 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 1660
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 8
Lims Batch ID: 81563 Lims Sample ID: 8
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:17:54 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:26:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	10402087	10.1			
2	2	3.209	3.210	-0.001	27426501	10.5			
						RPD = 4.05			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	8195549	11.1			
2	2	7.898	7.898	0.000	22439114	11.0			
						RPD = 0.86			
6 PCB-1016									
1	1	3.887	3.889	-0.002	2633030	101.0		100.0	
1	2	4.094	4.095	-0.001	2707572	104.2	112.9- 172.9	102.8	
1	3	4.360	4.362	-0.002	4830528	103.1	238.5- 298.5	183.5	
1	4	4.606	4.607	-0.001	2381611	111.5	103.8- 163.8	90.5	
1	5	4.819	4.821	-0.002	2717750	101.6	109.0- 169.0	103.2	
			Average of Peak Amounts =			104.3			
2	6	3.904	3.905	-0.001	6487239	101.2		100.0	
2	7	4.098	4.099	-0.001	6580314	109.4	73.1- 133.1	101.4	
2	8	4.400	4.401	-0.001	13353966	106.2	96.8- 156.8	205.8	
2	9	4.664	4.665	-0.001	4881237	104.0	49.5- 109.5	75.2	
2	10	4.849	4.850	-0.001	6076400	104.5	68.3- 128.3	93.7	
			Average of Peak Amounts =			105.1			
						RPD = 0.76			

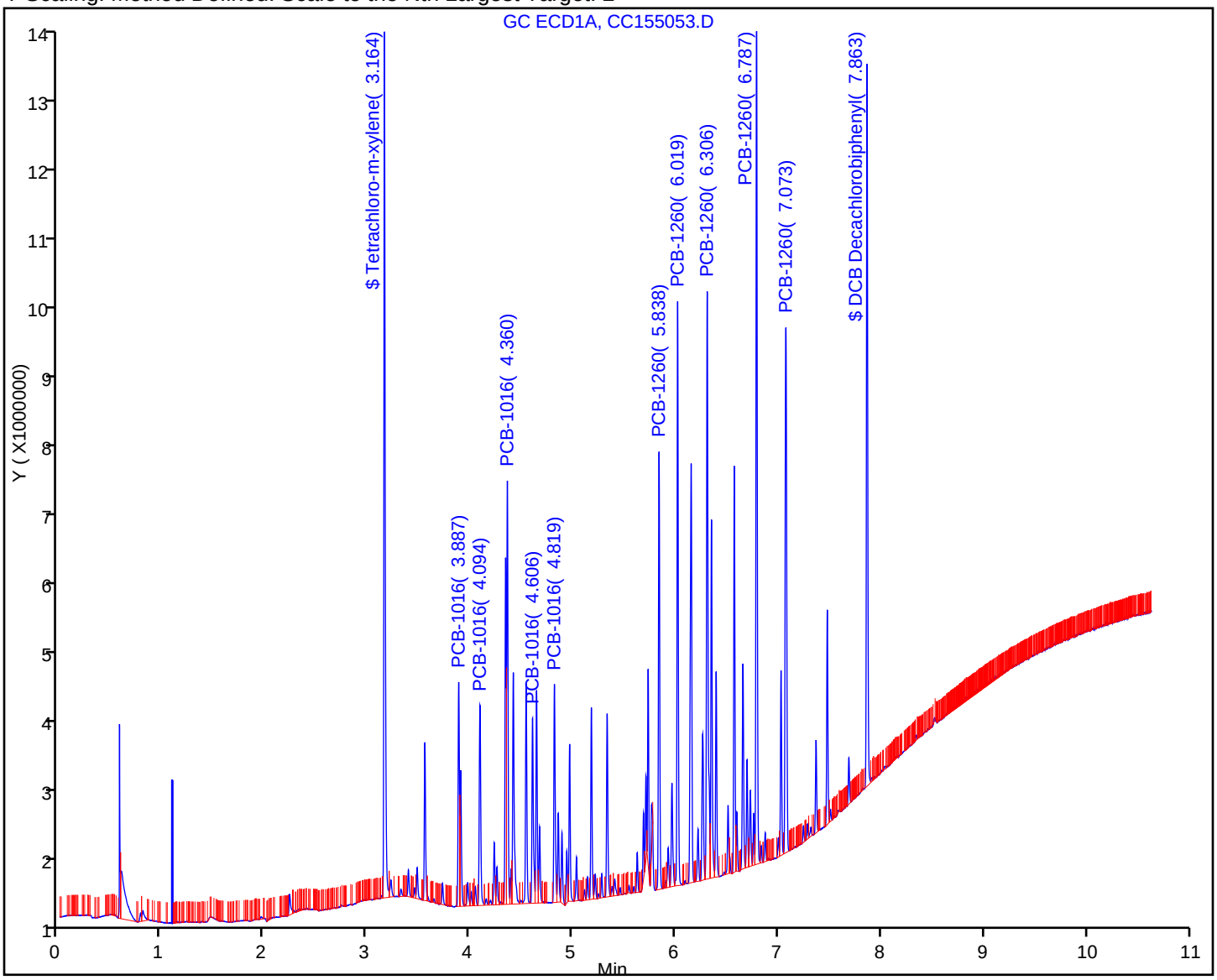
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.838	5.839	-0.001	4978363	96.0		100.0	
1	2	6.019	6.020	-0.001	6372532	110.6	88.0- 148.0	128.0	
1	3	6.306	6.307	-0.001	8042529	112.2	50.2- 110.2	161.5	
1	4	6.787	6.787	0.000	9764768	107.1	152.6- 212.6	196.1	
1	5	7.073	7.073	0.000	7464106	105.1	109.0- 169.0	149.9	
			Average of Peak Amounts =			106.2			
2	6	5.888	5.889	-0.001	11749804	102.3		100.0	
2	7	6.125	6.127	-0.002	18392108	105.9	124.6- 184.6	156.5	
2	8	6.355	6.355	0.000	17457550	105.3	42.5- 102.5	148.6	
2	9	6.872	6.873	-0.001	22893172	106.5	50.9- 110.9	194.8	
2	10	7.092	7.092	0.000	14148321	109.1	86.3- 146.3	120.4	
			Average of Peak Amounts =			105.8			
						RPD = 0.35			

Report Date: 08-Mar-2011 13:20:22 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155053.D

Injection Date:	03-Mar-2011 10:59:05	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	8
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/8 Calibration Date: 03/03/2011 10:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155053.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	64080	64872		101	100	1.2	20.0
PCB-1016 Peak 2	Lin1		65803		109	100	9.4	20.0
PCB-1016 Peak 3	Ave	125788	133540		106	100	6.2	20.0
PCB-1016 Peak 4	Ave	46934	48812		104	100	4.0	20.0
PCB-1016 Peak 5	Ave	58141	60764		105	100	4.5	20.0
PCB-1260 Peak 1	Ave	114814	117498		102	100	2.3	20.0
PCB-1260 Peak 2	Lin1		183921		106	100	5.9	20.0
PCB-1260 Peak 3	Ave	165857	174576		105	100	5.3	20.0
PCB-1260 Peak 4	Ave	214975	228932		106	100	6.5	20.0
PCB-1260 Peak 5	Ave	129719	141483		109	100	9.1	20.0
Tetrachloro-m-xylene	Ave	2610963	2742650		10.5	10.0	5.0	20.0
DCB Decachlorobiphenyl	Ave	2035658	2243911		11.0	10.0	10.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/8 Calibration Date: 03/03/2011 10:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155053.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.90	3.88	3.94
PCB-1016 Peak 2	4.10	4.07	4.13
PCB-1016 Peak 3	4.40	4.37	4.43
PCB-1016 Peak 4	4.66	4.64	4.70
PCB-1016 Peak 5	4.85	4.82	4.88
PCB-1260 Peak 1	5.89	5.86	5.92
PCB-1260 Peak 2	6.13	6.10	6.16
PCB-1260 Peak 3	6.36	6.33	6.39
PCB-1260 Peak 4	6.87	6.84	6.90
PCB-1260 Peak 5	7.09	7.06	7.12
Tetrachloro-m-xylene	3.21	3.18	3.24
DCB Decachlorobiphenyl	7.90	7.87	7.93

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155053.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 10:59:05 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 1660
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 8
Lims Batch ID: 81563 Lims Sample ID: 8
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:17:54 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:26:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	10402087	10.1			
2	2	3.209	3.210	-0.001	27426501	10.5			
						RPD = 4.05			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	8195549	11.1			
2	2	7.898	7.898	0.000	22439114	11.0			
						RPD = 0.86			
6 PCB-1016									
1	1	3.887	3.889	-0.002	2633030	101.0		100.0	
1	2	4.094	4.095	-0.001	2707572	104.2	112.9- 172.9	102.8	
1	3	4.360	4.362	-0.002	4830528	103.1	238.5- 298.5	183.5	
1	4	4.606	4.607	-0.001	2381611	111.5	103.8- 163.8	90.5	
1	5	4.819	4.821	-0.002	2717750	101.6	109.0- 169.0	103.2	
			Average of Peak Amounts =			104.3			
2	6	3.904	3.905	-0.001	6487239	101.2		100.0	
2	7	4.098	4.099	-0.001	6580314	109.4	73.1- 133.1	101.4	
2	8	4.400	4.401	-0.001	13353966	106.2	96.8- 156.8	205.8	
2	9	4.664	4.665	-0.001	4881237	104.0	49.5- 109.5	75.2	
2	10	4.849	4.850	-0.001	6076400	104.5	68.3- 128.3	93.7	
			Average of Peak Amounts =			105.1			
						RPD = 0.76			

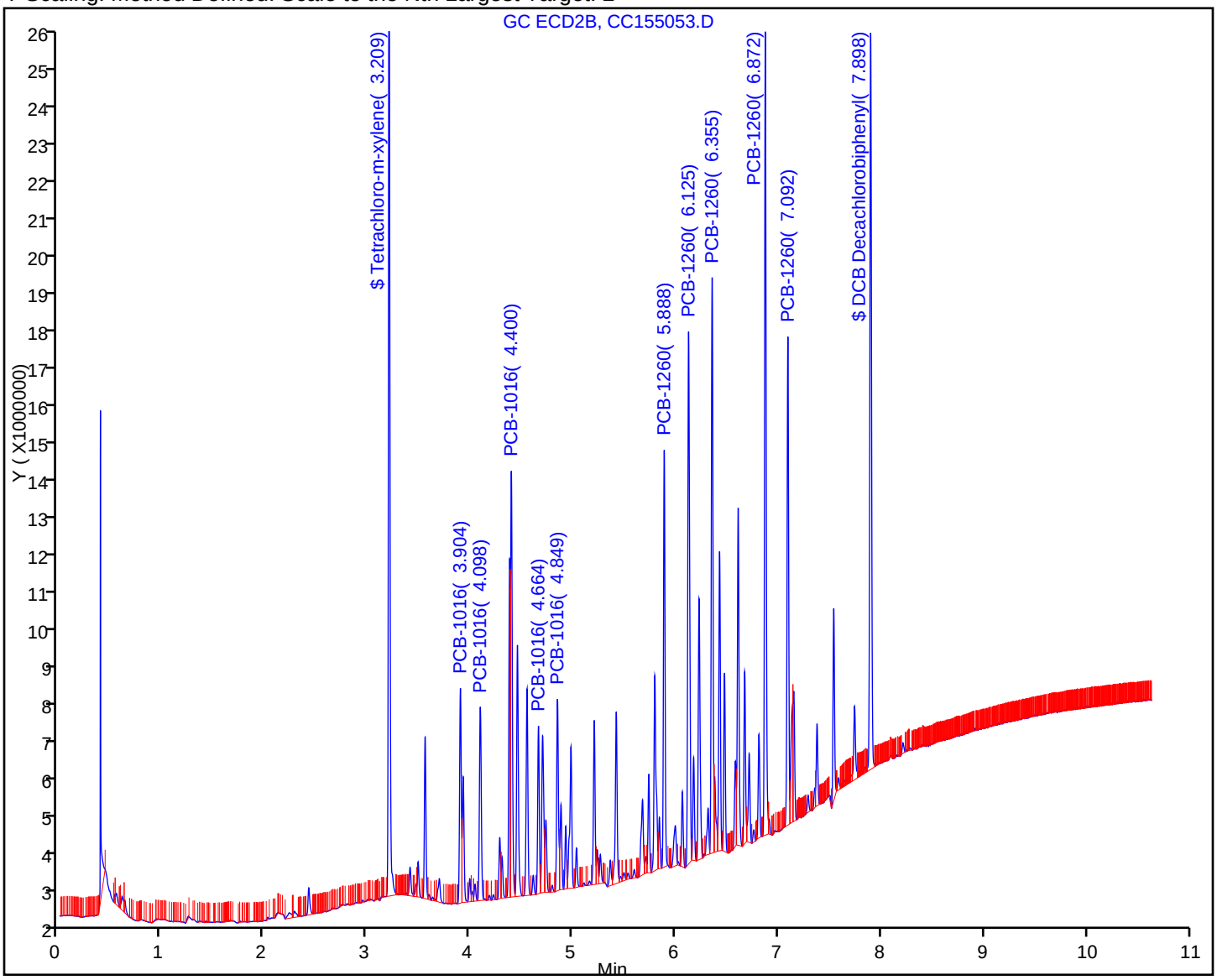
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.838	5.839	-0.001	4978363	96.0		100.0	
1	2	6.019	6.020	-0.001	6372532	110.6	88.0- 148.0	128.0	
1	3	6.306	6.307	-0.001	8042529	112.2	50.2- 110.2	161.5	
1	4	6.787	6.787	0.000	9764768	107.1	152.6- 212.6	196.1	
1	5	7.073	7.073	0.000	7464106	105.1	109.0- 169.0	149.9	
			Average of Peak Amounts =			106.2			
2	6	5.888	5.889	-0.001	11749804	102.3		100.0	
2	7	6.125	6.127	-0.002	18392108	105.9	124.6- 184.6	156.5	
2	8	6.355	6.355	0.000	17457550	105.3	42.5- 102.5	148.6	
2	9	6.872	6.873	-0.001	22893172	106.5	50.9- 110.9	194.8	
2	10	7.092	7.092	0.000	14148321	109.1	86.3- 146.3	120.4	
			Average of Peak Amounts =			105.8			
						RPD = 0.35			

Report Date: 08-Mar-2011 13:20:22 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155053.D

Injection Date:	03-Mar-2011 10:59:05	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	8
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155060.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1031214	1101565		10.7	10.0	6.8	20.0
DCB Decachlorobiphenyl	Lin1		782553		10.6	10.0	5.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155060.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.16	3.13	3.19
DCB Decachlorobiphenyl	7.86	7.83	7.89

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 12:38:00 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 2154
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 15
Lims Batch ID: 81563 Lims Sample ID: 15
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:17:54 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:35:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	11015647	10.7			
2	2	3.211	3.210	0.001	30064848	11.5			
						RPD = 7.50			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	7825528	10.6			
2	2	7.898	7.898	0.000	21224569	10.4			
						RPD = 1.56			
3 PCB-1221									
1	1	3.399	3.399	0.000	1299451	113.2			100.0
1	2	3.484	3.484	0.000	872187	122.7	32.1- 92.1	67.1	
1	3	3.559	3.559	0.000	2958114	107.3	203.6- 263.6	227.6	
			Average of Peak Amounts =			114.4			
2	4	3.416	3.417	-0.001	3002744	99.8			100.0
2	5	3.494	3.494	0.000	2101813	115.5	30.5- 90.5	70.0	
2	6	3.561	3.562	-0.001	7051347	101.5	205.1- 265.1	234.8	
			Average of Peak Amounts =			105.6			
						RPD = 8.02			

Report Date: 08-Mar-2011 13:20:45 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
8 PCB-1254									M
1	1	5.179	5.179	0.000	5743590	113.2		100.0	
1	2	5.333	5.334	-0.001	5158151	120.3	52.1- 112.1	89.8	
1	3	5.711	5.710	0.001	7094416	116.8	49.5- 109.5	123.5	
1	4	5.928	5.928	0.000	4479447	97.9	46.8- 106.8	78.0	
1	5	6.307	6.307	0.000	5659363	106.7	126.5- 186.5	98.5	
			Average of Peak Amounts =			111.0			
2	6	5.208	5.209	-0.001	10647924	123.1		100.0	
2	7	5.421	5.421	0.000	13518475	106.6	146.5- 206.5	127.0	M
2	8	5.738	5.738	0.000	16159080	114.8	36.8- 96.8	151.8	
2	9	5.996	5.997	-0.001	12585132	112.7	102.9- 162.9	118.2	
2	10	6.356	6.356	0.000	13064614	108.3	121.8- 181.8	122.7	
			Average of Peak Amounts =			113.1			
						RPD = 1.89			

QC Flag Legend

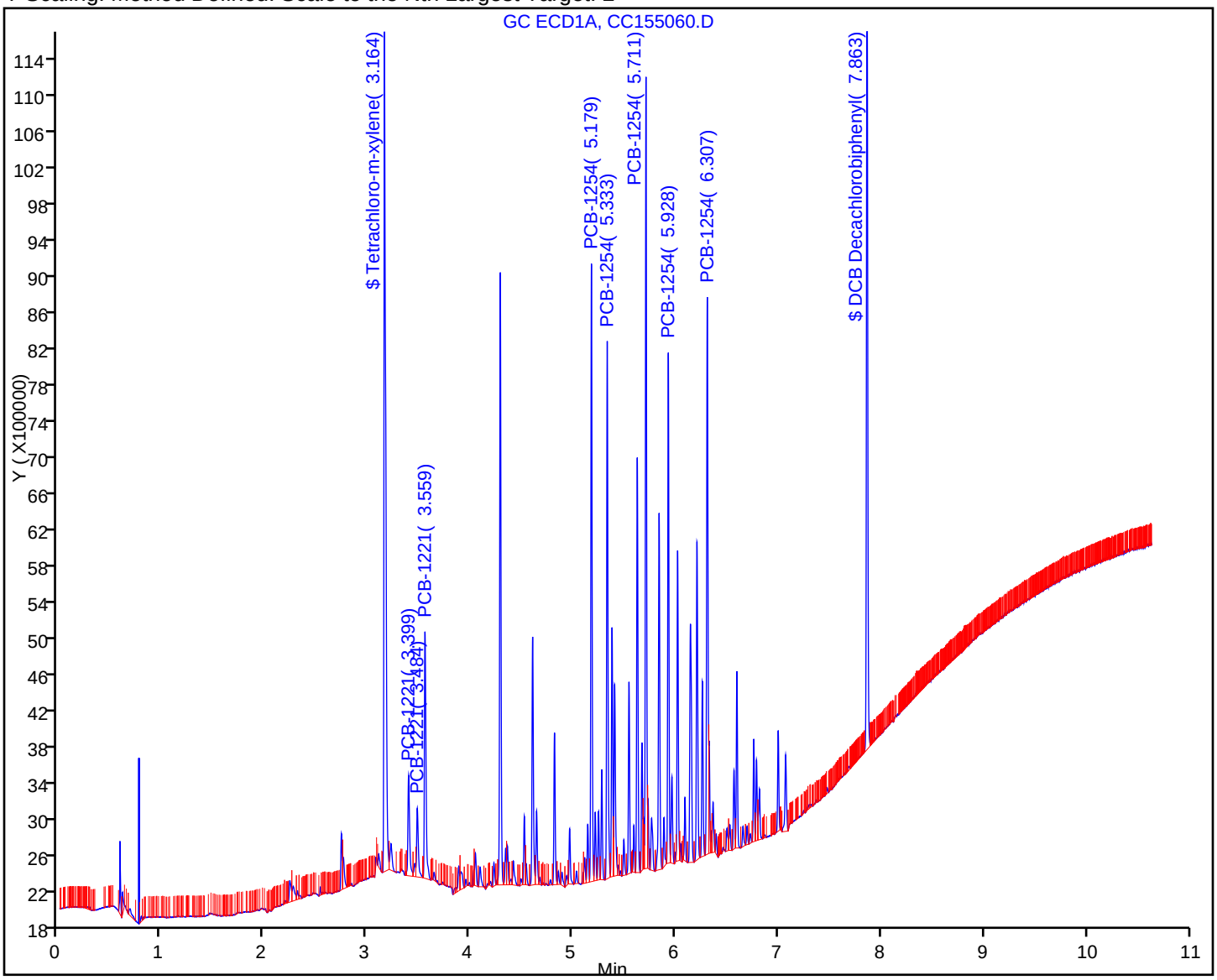
Review Flags
M - Manually Integrated

Report Date: 08-Mar-2011 13:20:45 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D

Injection Date:	03-Mar-2011 12:38:00	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	15
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC155060.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	11478	12995		113	100	13.2	20.0
PCB-1221 Peak 2	Lin1		8722		123	100	22.7*	20.0
PCB-1221 Peak 3	Ave	27581	29581		107	100	7.3	20.0
PCB-1254 Peak 1	Ave	50747	57436		113	100	13.2	20.0
PCB-1254 Peak 2	Ave	42865	51582		120	100	20.3*	20.0
PCB-1254 Peak 3	Ave	60720	70944		117	100	16.8	20.0
PCB-1254 Peak 4	Ave	45745	44794		97.9	100	-2.1	20.0
PCB-1254 Peak 5	Ave	53054	56594		107	100	6.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC155060.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.40	3.37	3.43
PCB-1221 Peak 2	3.48	3.45	3.51
PCB-1221 Peak 3	3.56	3.53	3.59
PCB-1254 Peak 1	5.18	5.15	5.21
PCB-1254 Peak 2	5.33	5.30	5.36
PCB-1254 Peak 3	5.71	5.68	5.74
PCB-1254 Peak 4	5.93	5.90	5.96
PCB-1254 Peak 5	6.31	6.28	6.34

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 12:38:00 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 2154
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 15
Lims Batch ID: 81563 Lims Sample ID: 15
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:17:54 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:35:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	11015647	10.7			
2	2	3.211	3.210	0.001	30064848	11.5			
						RPD = 7.50			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	7825528	10.6			
2	2	7.898	7.898	0.000	21224569	10.4			
						RPD = 1.56			
3 PCB-1221									
1	1	3.399	3.399	0.000	1299451	113.2			100.0
1	2	3.484	3.484	0.000	872187	122.7	32.1- 92.1	67.1	
1	3	3.559	3.559	0.000	2958114	107.3	203.6- 263.6	227.6	
			Average of Peak Amounts =			114.4			
2	4	3.416	3.417	-0.001	3002744	99.8			100.0
2	5	3.494	3.494	0.000	2101813	115.5	30.5- 90.5	70.0	
2	6	3.561	3.562	-0.001	7051347	101.5	205.1- 265.1	234.8	
			Average of Peak Amounts =			105.6			
						RPD = 8.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
8 PCB-1254									M
1	1	5.179	5.179	0.000	5743590	113.2		100.0	
1	2	5.333	5.334	-0.001	5158151	120.3	52.1- 112.1	89.8	
1	3	5.711	5.710	0.001	7094416	116.8	49.5- 109.5	123.5	
1	4	5.928	5.928	0.000	4479447	97.9	46.8- 106.8	78.0	
1	5	6.307	6.307	0.000	5659363	106.7	126.5- 186.5	98.5	
			Average of Peak Amounts =			111.0			
2	6	5.208	5.209	-0.001	10647924	123.1		100.0	
2	7	5.421	5.421	0.000	13518475	106.6	146.5- 206.5	127.0	M
2	8	5.738	5.738	0.000	16159080	114.8	36.8- 96.8	151.8	
2	9	5.996	5.997	-0.001	12585132	112.7	102.9- 162.9	118.2	
2	10	6.356	6.356	0.000	13064614	108.3	121.8- 181.8	122.7	
			Average of Peak Amounts =			113.1			
						RPD = 1.89			

QC Flag Legend

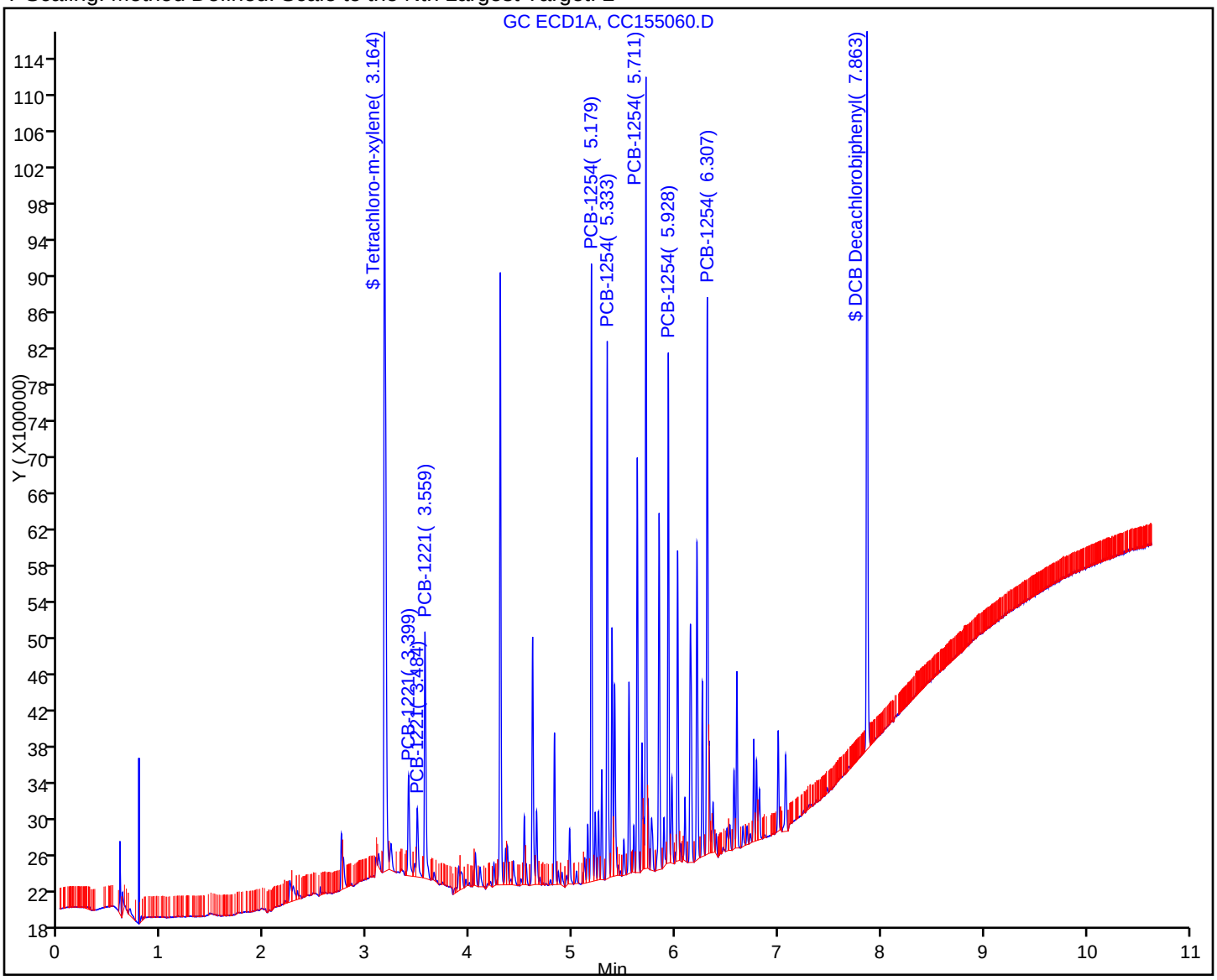
Review Flags
M - Manually Integrated

Report Date: 08-Mar-2011 13:20:45 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D

Injection Date:	03-Mar-2011 12:38:00	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	15
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155060.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	2610963	3006485		11.5	10.0	15.1	20.0
DCB Decachlorobiphenyl	Ave	2035658	2122457		10.4	10.0	4.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155060.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.21	3.18	3.24
DCB Decachlorobiphenyl	7.90	7.87	7.93

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 12:38:00 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 2154
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 15
Lims Batch ID: 81563 Lims Sample ID: 15
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:17:54 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:35:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	11015647	10.7			
2	2	3.211	3.210	0.001	30064848	11.5			
						RPD = 7.50			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	7825528	10.6			
2	2	7.898	7.898	0.000	21224569	10.4			
						RPD = 1.56			
3 PCB-1221									
1	1	3.399	3.399	0.000	1299451	113.2			100.0
1	2	3.484	3.484	0.000	872187	122.7	32.1- 92.1	67.1	
1	3	3.559	3.559	0.000	2958114	107.3	203.6- 263.6	227.6	
			Average of Peak Amounts =			114.4			
2	4	3.416	3.417	-0.001	3002744	99.8			100.0
2	5	3.494	3.494	0.000	2101813	115.5	30.5- 90.5	70.0	
2	6	3.561	3.562	-0.001	7051347	101.5	205.1- 265.1	234.8	
			Average of Peak Amounts =			105.6			
						RPD = 8.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
8 PCB-1254									M
1	1	5.179	5.179	0.000	5743590	113.2		100.0	
1	2	5.333	5.334	-0.001	5158151	120.3	52.1- 112.1	89.8	
1	3	5.711	5.710	0.001	7094416	116.8	49.5- 109.5	123.5	
1	4	5.928	5.928	0.000	4479447	97.9	46.8- 106.8	78.0	
1	5	6.307	6.307	0.000	5659363	106.7	126.5- 186.5	98.5	
			Average of Peak Amounts =			111.0			
2	6	5.208	5.209	-0.001	10647924	123.1		100.0	
2	7	5.421	5.421	0.000	13518475	106.6	146.5- 206.5	127.0	M
2	8	5.738	5.738	0.000	16159080	114.8	36.8- 96.8	151.8	
2	9	5.996	5.997	-0.001	12585132	112.7	102.9- 162.9	118.2	
2	10	6.356	6.356	0.000	13064614	108.3	121.8- 181.8	122.7	
			Average of Peak Amounts =			113.1			
						RPD = 1.89			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 08-Mar-2011 13:20:45 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D

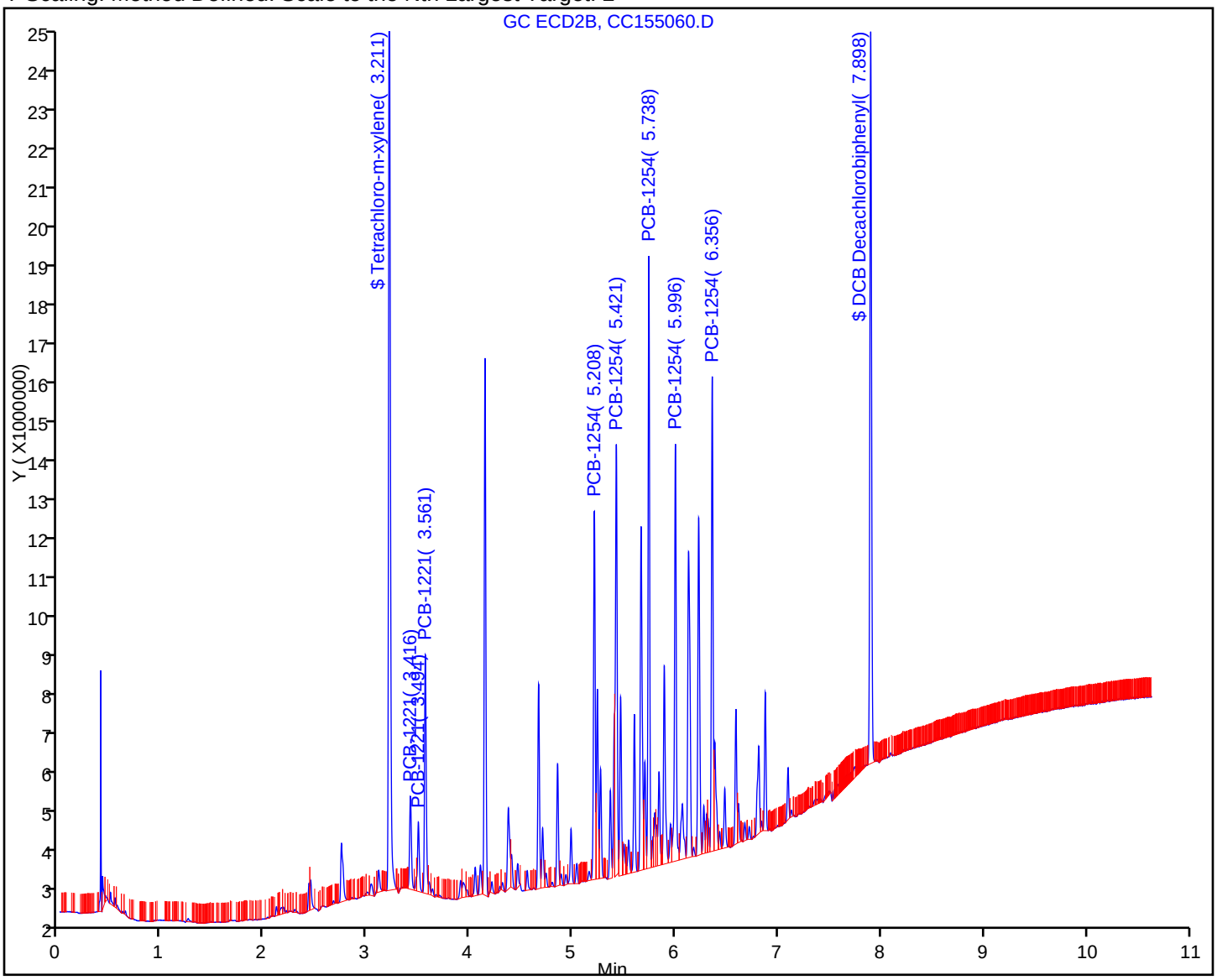
Injection Date: 03-Mar-2011 12:38:00 Limit Group: 8082 PCBs

Client ID: Instrument ID: TAC042

Lims Batch ID: 81563 Lims Sample ID: 15

Operator ID: mam Injection Vol: 1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC155060.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	30095	30027		99.8	100	-0.2	20.0
PCB-1221 Peak 2	Ave	18196	21018		116	100	15.5	20.0
PCB-1221 Peak 3	Ave	69495	70513		101	100	1.5	20.0
PCB-1254 Peak 1	Ave	86471	106479		123	100	23.1*	20.0
PCB-1254 Peak 2	Ave	126844	135185		107	100	6.6	20.0
PCB-1254 Peak 3	Ave	140796	161591		115	100	14.8	20.0
PCB-1254 Peak 4	Ave	111640	125851		113	100	12.7	20.0
PCB-1254 Peak 5	Ave	120602	130646		108	100	8.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/15 Calibration Date: 03/03/2011 12:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC155060.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.42	3.39	3.45
PCB-1221 Peak 2	3.49	3.46	3.52
PCB-1221 Peak 3	3.56	3.53	3.59
PCB-1254 Peak 1	5.21	5.18	5.24
PCB-1254 Peak 2	5.42	5.39	5.45
PCB-1254 Peak 3	5.74	5.71	5.77
PCB-1254 Peak 4	6.00	5.97	6.03
PCB-1254 Peak 5	6.36	6.33	6.39

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 12:38:00 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 2154
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 15
Lims Batch ID: 81563 Lims Sample ID: 15
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:17:54 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 03-Mar-2011 13:35:02

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	11015647	10.7			
2	2	3.211	3.210	0.001	30064848	11.5			
						RPD = 7.50			
$ 2 DCB Decachlorobiphenyl									
1	1	7.863	7.863	0.000	7825528	10.6			
2	2	7.898	7.898	0.000	21224569	10.4			
						RPD = 1.56			
3 PCB-1221									
1	1	3.399	3.399	0.000	1299451	113.2			100.0
1	2	3.484	3.484	0.000	872187	122.7	32.1- 92.1	67.1	
1	3	3.559	3.559	0.000	2958114	107.3	203.6- 263.6	227.6	
			Average of Peak Amounts =			114.4			
2	4	3.416	3.417	-0.001	3002744	99.8			100.0
2	5	3.494	3.494	0.000	2101813	115.5	30.5- 90.5	70.0	
2	6	3.561	3.562	-0.001	7051347	101.5	205.1- 265.1	234.8	
			Average of Peak Amounts =			105.6			
						RPD = 8.02			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
8 PCB-1254									M
1	1	5.179	5.179	0.000	5743590	113.2		100.0	
1	2	5.333	5.334	-0.001	5158151	120.3	52.1- 112.1	89.8	
1	3	5.711	5.710	0.001	7094416	116.8	49.5- 109.5	123.5	
1	4	5.928	5.928	0.000	4479447	97.9	46.8- 106.8	78.0	
1	5	6.307	6.307	0.000	5659363	106.7	126.5- 186.5	98.5	
			Average of Peak Amounts =			111.0			
2	6	5.208	5.209	-0.001	10647924	123.1		100.0	
2	7	5.421	5.421	0.000	13518475	106.6	146.5- 206.5	127.0	M
2	8	5.738	5.738	0.000	16159080	114.8	36.8- 96.8	151.8	
2	9	5.996	5.997	-0.001	12585132	112.7	102.9- 162.9	118.2	
2	10	6.356	6.356	0.000	13064614	108.3	121.8- 181.8	122.7	
			Average of Peak Amounts =			113.1			
						RPD = 1.89			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 08-Mar-2011 13:20:45 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D

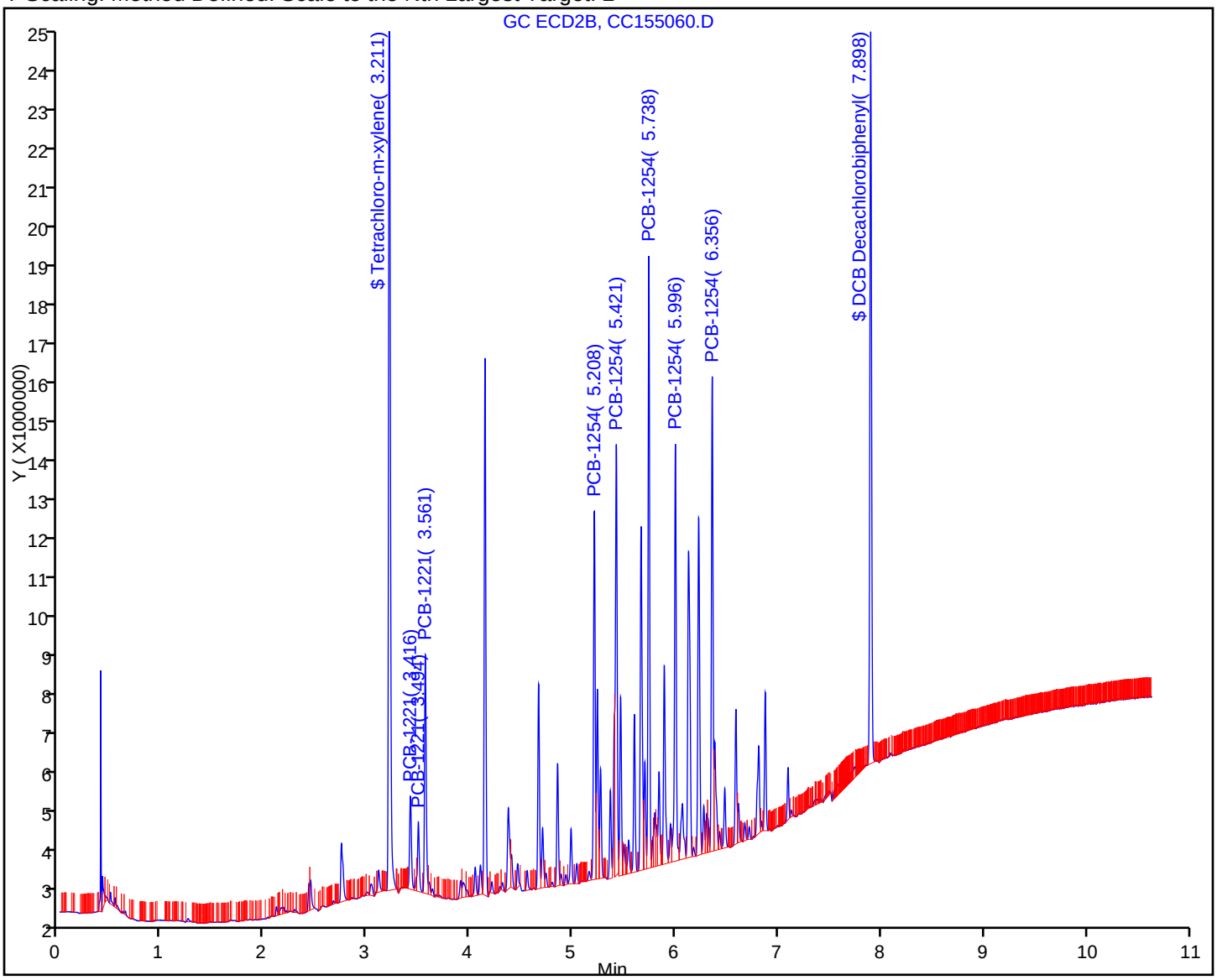
Injection Date: 03-Mar-2011 12:38:00 Limit Group: 8082 PCBs

Client ID: Instrument ID: TAC042

Lims Batch ID: 81563 Lims Sample ID: 15

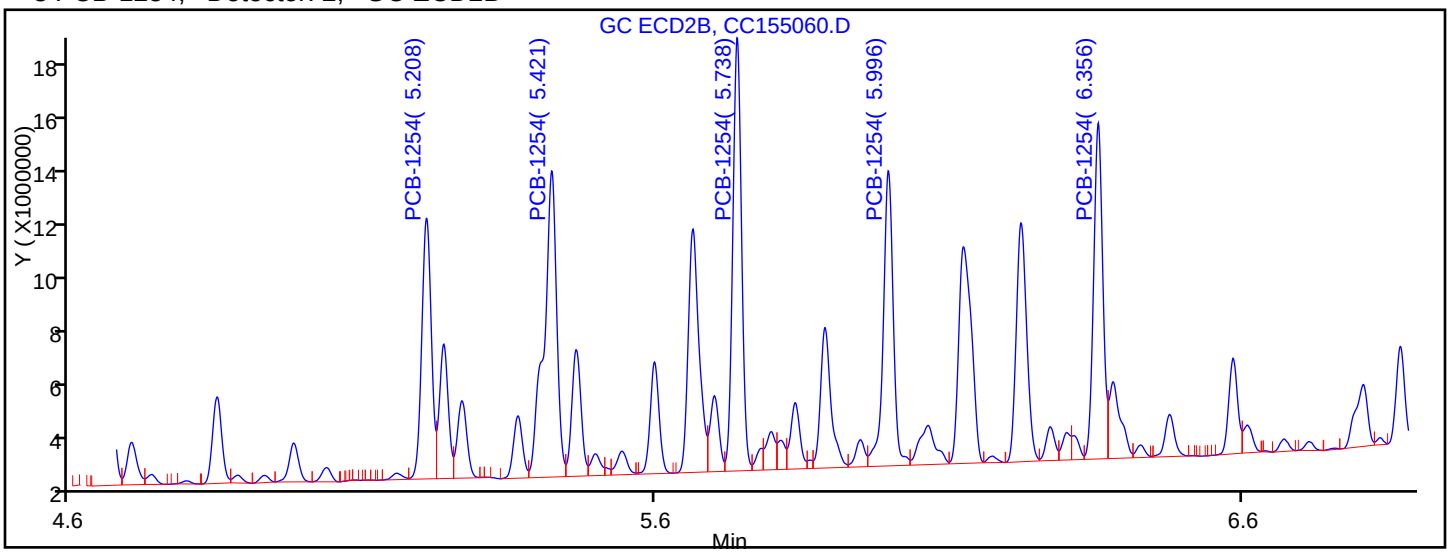
Operator ID: mam Injection Vol: 1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



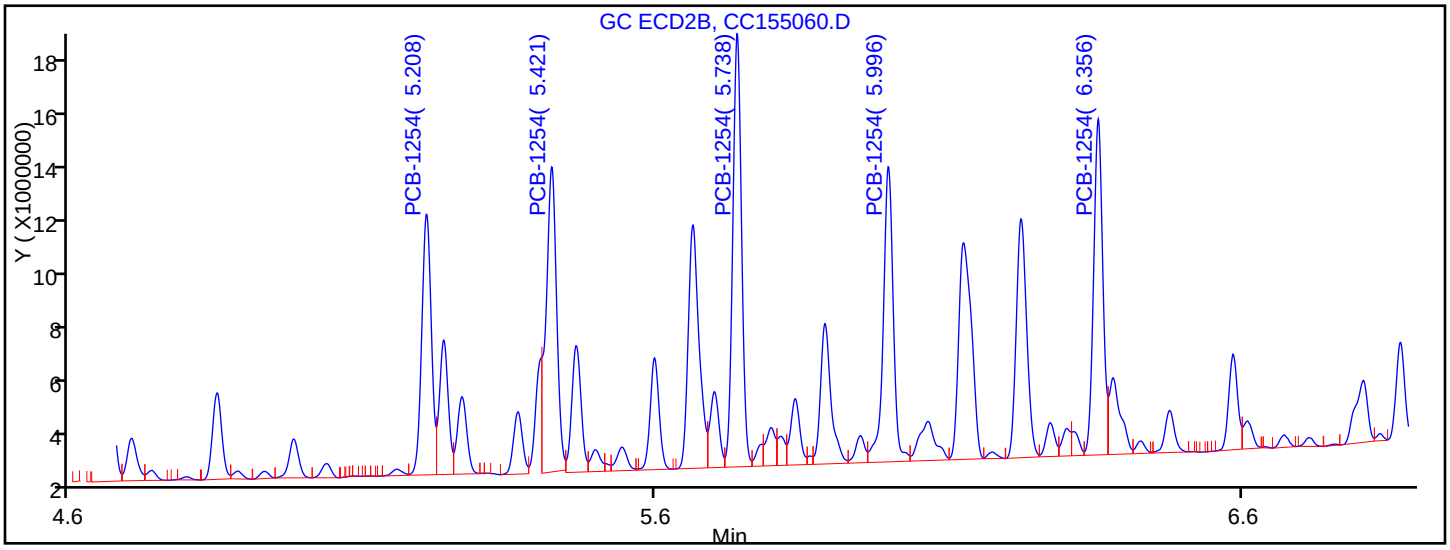
Report Date: 08-Mar-2011 13:20:45 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155060.D
Injection Date: 03-Mar-2011 12:38:00 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 15
Operator ID: mam Injection Vol: 1.00 ul

8 PCB-1254, Detector: 2, GC ECD2B



Processing Integration Results

RT = 5.208	Response = 10647924	
RT = 5.421	Response = 16578638	M
RT = 5.738	Response = 16159080	
RT = 5.996	Response = 12585132	
RT = 6.356	Response = 13064614	



Manual Integration Results

RT = 5.208	Response = 10647924	
RT = 5.421	Response = 13518475	M
RT = 5.738	Response = 16159080	
RT = 5.996	Response = 12585132	
RT = 6.356	Response = 13064614	

Reviewer: muirm, 03-Mar-2011 13:35:43
Audit Action: Manually Integrated
Audit Reason: Shouldering

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155072.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1031214	1250502		12.1	10.0	21.3*	20.0
DCB Decachlorobiphenyl	Lin1		865026		11.8	10.0	17.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155072.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.17	3.13	3.19
DCB Decachlorobiphenyl	7.86	7.83	7.89

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 16:20:20 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 3262
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 22
Lims Batch ID: 81563 Lims Sample ID: 22
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:26:07 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 09-Mar-2011 08:21:39

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	12505018	12.1			
2	2	3.210	3.210	0.000	32595410	12.5			
						RPD = 2.91			
$ 2 DCB Decachlorobiphenyl									
1	1	7.862	7.863	-0.001	8650257	11.8			
2	2	7.897	7.898	-0.001	23288148	11.4			
						RPD = 2.82			
4 PCB-1232									
1	1	3.398	3.398	0.000	783952	108.1		100.0	M
1	2	3.558	3.558	0.000	2450361	108.7	25.3- 85.3	312.6	M
1	3	0.0	4.094	-4.094	0	0	18.4- 78.4		
1	4	4.419	4.418	0.001	1561339	116.9	13.3- 73.3	199.2	M
1	5	4.545	4.544	0.001	1505886	132.1	13.9- 73.9	192.1	
			Average of Peak Amounts =			116.5			
2	1	3.416	3.416	0.000	1708581	85.7		100.0	M
2	2	3.560	3.561	-0.001	6068152	107.7	26.2- 86.2	355.2	M
2	3	4.098	4.098	0.000	3381907	101.2	33.0- 93.0	197.9	
2	4	4.553	4.459	0.094	2864539	82.0	19.2- 79.2	167.7	M
2	5	4.553	4.553	0.000	2864539	100.8	6.1- 66.1	167.7	M
			Average of Peak Amounts =			95.5			
						RPD = 19.79			

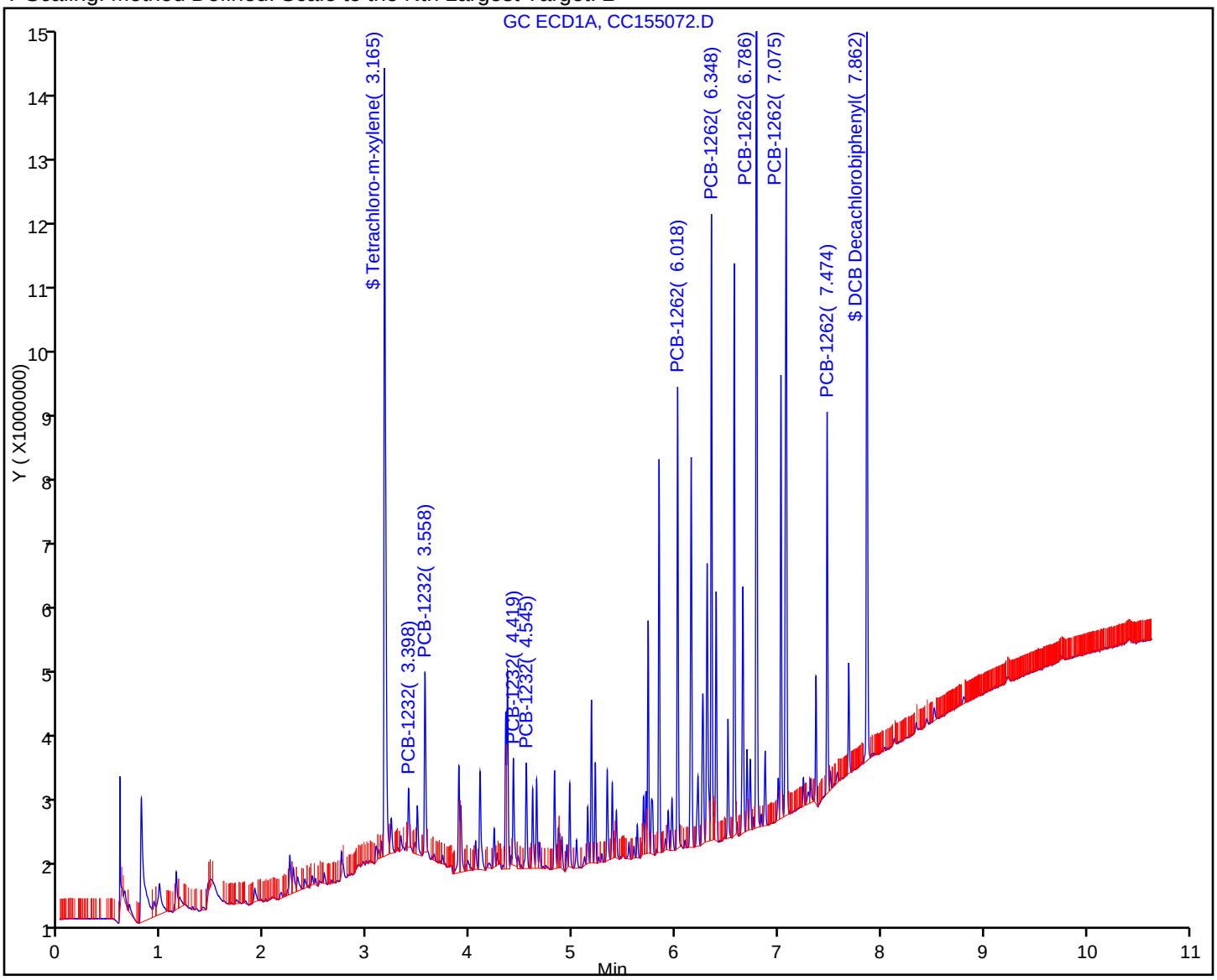
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
10 PCB-1262									
1	1	6.018	6.017	0.001	5272823	116.4		100.0	
1	2	6.348	6.348	0.000	7182266	115.3	69.3- 129.3	136.2	
1	3	6.786	6.786	0.000	13109066	116.6	165.2- 225.2	248.6	
1	4	7.075	7.076	-0.001	9542964	114.4	114.1- 174.1	181.0	
1	5	7.474	7.475	-0.001	4170971	114.5	34.4- 94.4	79.1	
			Average of Peak Amounts =			115.4			
2	6	6.124	6.125	-0.001	13512373	113.2		100.0	
2	7	6.427	6.428	-0.001	15528118	114.1	59.8- 119.8	114.9	
2	8	6.872	6.873	-0.001	31766475	116.9	166.0- 226.0	235.1	
2	9	7.090	7.091	-0.001	19639187	117.6	90.8- 150.8	145.3	
2	10	7.538	7.538	0.000	11798722	132.9	38.9- 98.9	87.3	
			Average of Peak Amounts =			118.9			
						RPD = 2.99			

Report Date: 09-Mar-2011 08:26:31 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D

Injection Date:	03-Mar-2011 16:20:20	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	22
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 14:54

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 16:05

Lab File ID: CC155072.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 3	Ave	11807	0.0000		0.0500	100	-100.0*	20.0
PCB-1232 Peak 1	Lin1		7840		108	100	8.1	20.0
PCB-1232 Peak 2	Ave	22542	24504		109	100	8.7	20.0
PCB-1232 Peak 4	Ave	13354	15613		117	100	16.9	20.0
PCB-1232 Peak 5	Ave	11396	15059		132	100	32.1*	20.0
PCB-1262 Peak 1	Ave	45305	52728		116	100	16.4	20.0
PCB-1262 Peak 2	Ave	62271	71823		115	100	15.3	20.0
PCB-1262 Peak 3	Lin1		131091		117	100	16.6	20.0
PCB-1262 Peak 4	Ave	83433	95430		114	100	14.4	20.0
PCB-1262 Peak 5	Ave	36417	41710		115	100	14.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 14:54

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 16:05

Lab File ID: CC155072.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1232 Peak 3	0.00	4.06	4.12
PCB-1232 Peak 1	3.40	3.37	3.43
PCB-1232 Peak 2	3.56	3.53	3.59
PCB-1232 Peak 4	4.42	4.39	4.45
PCB-1232 Peak 5	4.55	4.51	4.57
PCB-1262 Peak 1	6.02	5.99	6.05
PCB-1262 Peak 2	6.35	6.32	6.38
PCB-1262 Peak 3	6.79	6.76	6.82
PCB-1262 Peak 4	7.08	7.05	7.11
PCB-1262 Peak 5	7.47	7.45	7.51

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 16:20:20 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 3262
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 22
Lims Batch ID: 81563 Lims Sample ID: 22
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

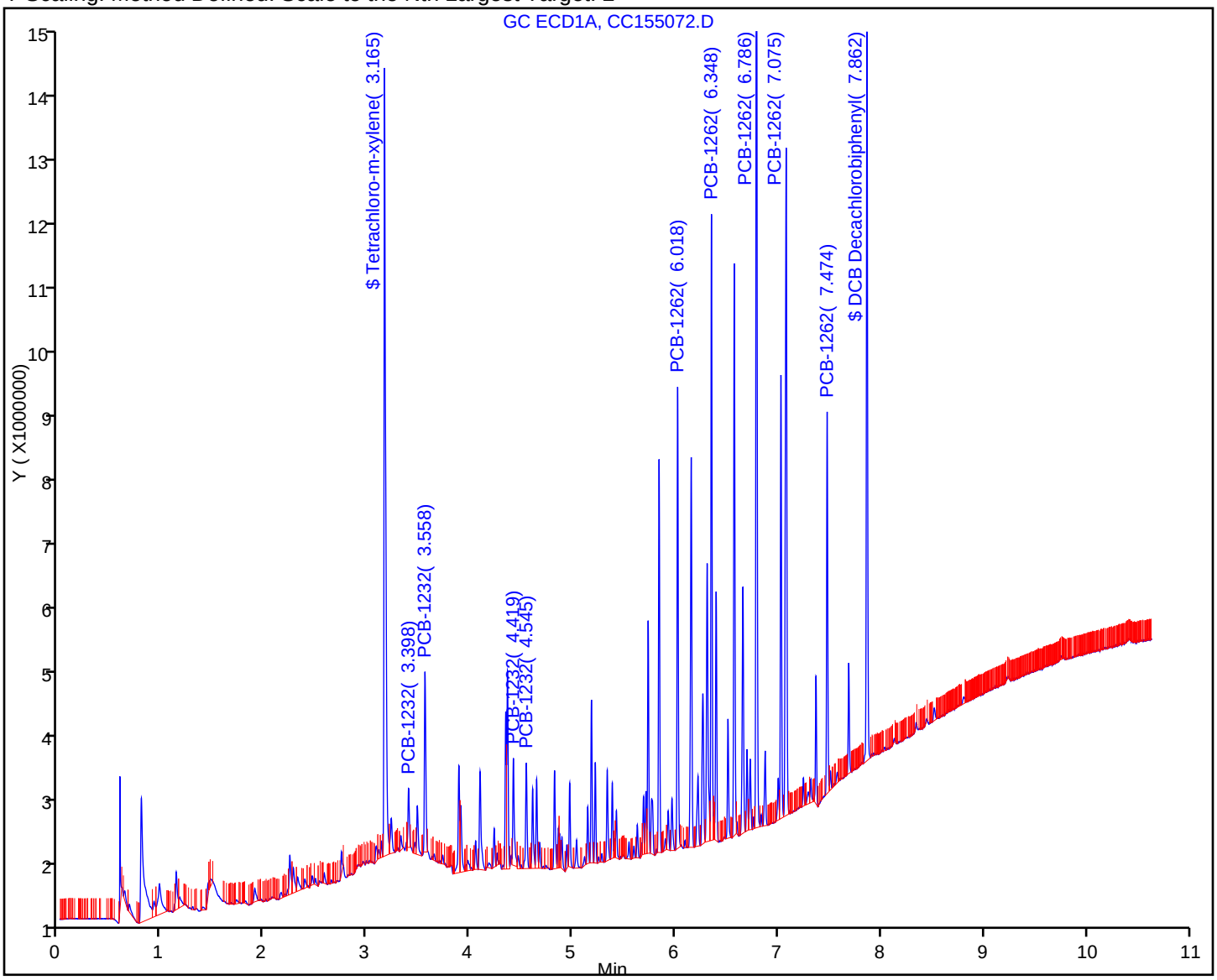
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:26:07 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 09-Mar-2011 08:21:39

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	12505018	12.1			
2	2	3.210	3.210	0.000	32595410	12.5			
						RPD = 2.91			
$ 2 DCB Decachlorobiphenyl									
1	1	7.862	7.863	-0.001	8650257	11.8			
2	2	7.897	7.898	-0.001	23288148	11.4			
						RPD = 2.82			
4 PCB-1232									
1	1	3.398	3.398	0.000	783952	108.1		100.0	M
1	2	3.558	3.558	0.000	2450361	108.7	25.3- 85.3	312.6	M
1	3	0.0	4.094	-4.094	0	0	18.4- 78.4		
1	4	4.419	4.418	0.001	1561339	116.9	13.3- 73.3	199.2	M
1	5	4.545	4.544	0.001	1505886	132.1	13.9- 73.9	192.1	
			Average of Peak Amounts =			116.5			
2	1	3.416	3.416	0.000	1708581	85.7		100.0	M
2	2	3.560	3.561	-0.001	6068152	107.7	26.2- 86.2	355.2	M
2	3	4.098	4.098	0.000	3381907	101.2	33.0- 93.0	197.9	
2	4	4.553	4.459	0.094	2864539	82.0	19.2- 79.2	167.7	M
2	5	4.553	4.553	0.000	2864539	100.8	6.1- 66.1	167.7	M
			Average of Peak Amounts =			95.5			
						RPD = 19.79			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
10 PCB-1262									
1	1	6.018	6.017	0.001	5272823	116.4		100.0	
1	2	6.348	6.348	0.000	7182266	115.3	69.3- 129.3	136.2	
1	3	6.786	6.786	0.000	13109066	116.6	165.2- 225.2	248.6	
1	4	7.075	7.076	-0.001	9542964	114.4	114.1- 174.1	181.0	
1	5	7.474	7.475	-0.001	4170971	114.5	34.4- 94.4	79.1	
			Average of Peak Amounts =			115.4			
2	6	6.124	6.125	-0.001	13512373	113.2		100.0	
2	7	6.427	6.428	-0.001	15528118	114.1	59.8- 119.8	114.9	
2	8	6.872	6.873	-0.001	31766475	116.9	166.0- 226.0	235.1	
2	9	7.090	7.091	-0.001	19639187	117.6	90.8- 150.8	145.3	
2	10	7.538	7.538	0.000	11798722	132.9	38.9- 98.9	87.3	
			Average of Peak Amounts =			118.9			
						RPD = 2.99			

Report Date: 09-Mar-2011 08:26:31 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Injection Date: 03-Mar-2011 16:20:20 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 22
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155072.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	2610963	3259541		12.5	10.0	24.8*	20.0
DCB Decachlorobiphenyl	Ave	2035658	2328815		11.4	10.0	14.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155072.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.21	3.18	3.24
DCB Decachlorobiphenyl	7.90	7.87	7.93

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 16:20:20 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 3262
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 22
Lims Batch ID: 81563 Lims Sample ID: 22
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

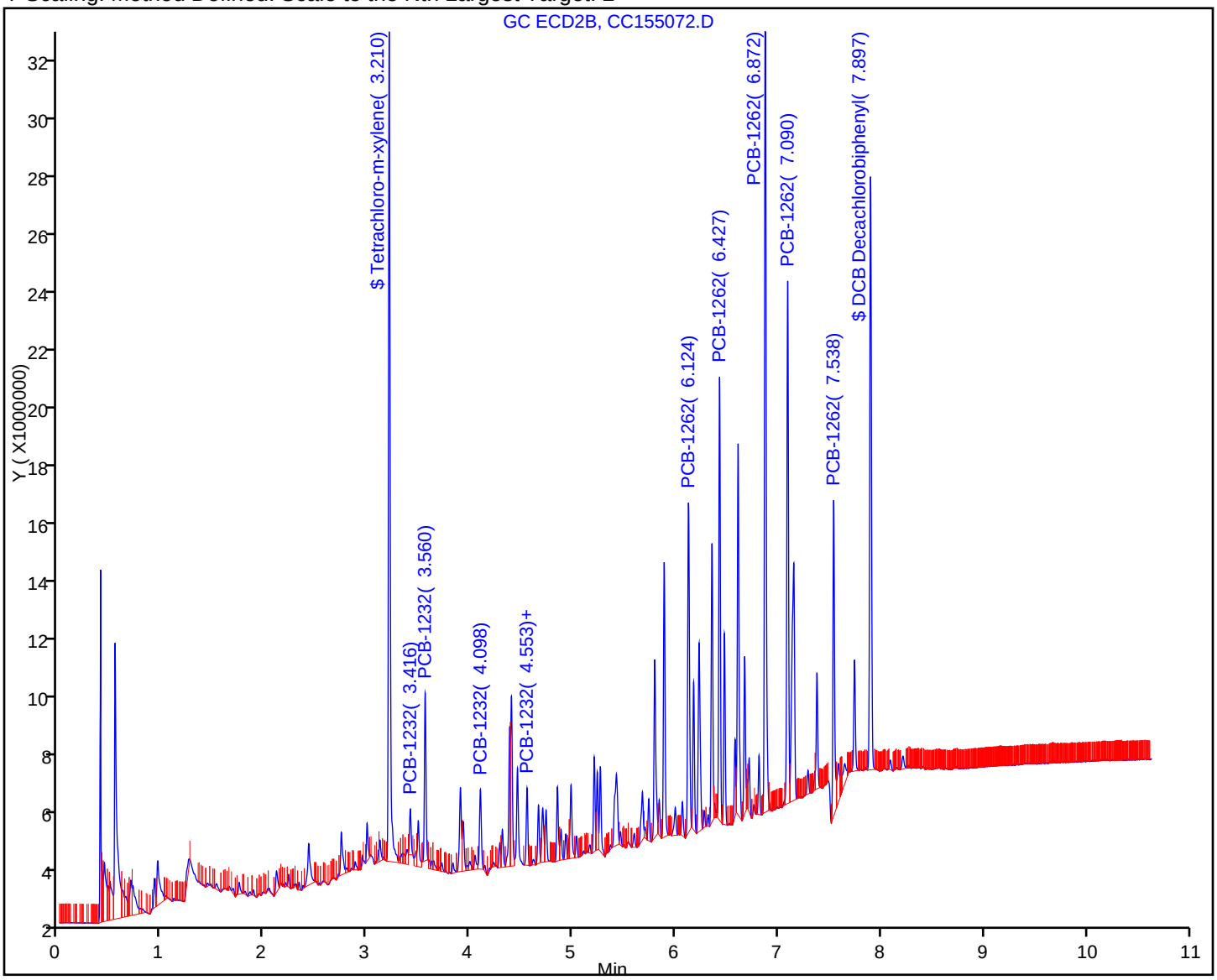
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:26:07 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 09-Mar-2011 08:21:39

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	12505018	12.1			
2	2	3.210	3.210	0.000	32595410	12.5			
						RPD = 2.91			
$ 2 DCB Decachlorobiphenyl									
1	1	7.862	7.863	-0.001	8650257	11.8			
2	2	7.897	7.898	-0.001	23288148	11.4			
						RPD = 2.82			
4 PCB-1232									
1	1	3.398	3.398	0.000	783952	108.1		100.0	M
1	2	3.558	3.558	0.000	2450361	108.7	25.3- 85.3	312.6	M
1	3	0.0	4.094	-4.094	0	0	18.4- 78.4		
1	4	4.419	4.418	0.001	1561339	116.9	13.3- 73.3	199.2	M
1	5	4.545	4.544	0.001	1505886	132.1	13.9- 73.9	192.1	
			Average of Peak Amounts =			116.5			
2	1	3.416	3.416	0.000	1708581	85.7		100.0	M
2	2	3.560	3.561	-0.001	6068152	107.7	26.2- 86.2	355.2	M
2	3	4.098	4.098	0.000	3381907	101.2	33.0- 93.0	197.9	
2	4	4.553	4.459	0.094	2864539	82.0	19.2- 79.2	167.7	M
2	5	4.553	4.553	0.000	2864539	100.8	6.1- 66.1	167.7	M
			Average of Peak Amounts =			95.5			
						RPD = 19.79			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
10 PCB-1262									
1	1	6.018	6.017	0.001	5272823	116.4		100.0	
1	2	6.348	6.348	0.000	7182266	115.3	69.3- 129.3	136.2	
1	3	6.786	6.786	0.000	13109066	116.6	165.2- 225.2	248.6	
1	4	7.075	7.076	-0.001	9542964	114.4	114.1- 174.1	181.0	
1	5	7.474	7.475	-0.001	4170971	114.5	34.4- 94.4	79.1	
			Average of Peak Amounts =			115.4			
2	6	6.124	6.125	-0.001	13512373	113.2		100.0	
2	7	6.427	6.428	-0.001	15528118	114.1	59.8- 119.8	114.9	
2	8	6.872	6.873	-0.001	31766475	116.9	166.0- 226.0	235.1	
2	9	7.090	7.091	-0.001	19639187	117.6	90.8- 150.8	145.3	
2	10	7.538	7.538	0.000	11798722	132.9	38.9- 98.9	87.3	
			Average of Peak Amounts =			118.9			
						RPD = 2.99			

Report Date: 09-Mar-2011 08:26:31 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Injection Date: 03-Mar-2011 16:20:20 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 22
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 14:54

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 16:05

Lab File ID: CC155072.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	19948	17086		85.7	100	-14.3	20.0
PCB-1232 Peak 2	Ave	56328	60682		108	100	7.7	20.0
PCB-1232 Peak 3	Ave	33414	33819		101	100	1.2	20.0
PCB-1232 Peak 4	Ave	34922	28645		82.0	100	-18.0	20.0
PCB-1232 Peak 5	Ave	28409	28645		101	100	0.8	20.0
PCB-1262 Peak 1	Ave	119338	135124		113	100	13.2	20.0
PCB-1262 Peak 2	Ave	136101	155281		114	100	14.1	20.0
PCB-1262 Peak 3	Ave	271732	317665		117	100	16.9	20.0
PCB-1262 Peak 4	Ave	166956	196392		118	100	17.6	20.0
PCB-1262 Peak 5	Ave	88794	117987		133	100	32.9*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/22 Calibration Date: 03/03/2011 16:20

Instrument ID: TAC042 Calib Start Date: 03/03/2011 14:54

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 16:05

Lab File ID: CC155072.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1232 Peak 1	3.42	3.39	3.45
PCB-1232 Peak 2	3.56	3.53	3.59
PCB-1232 Peak 3	4.10	4.07	4.13
PCB-1232 Peak 4	4.55	4.43	4.49
PCB-1232 Peak 5	4.55	4.52	4.58
PCB-1262 Peak 1	6.12	6.10	6.16
PCB-1262 Peak 2	6.43	6.40	6.46
PCB-1262 Peak 3	6.87	6.84	6.90
PCB-1262 Peak 4	7.09	7.06	7.12
PCB-1262 Peak 5	7.54	7.51	7.57

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 16:20:20 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 3262
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 22
Lims Batch ID: 81563 Lims Sample ID: 22
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

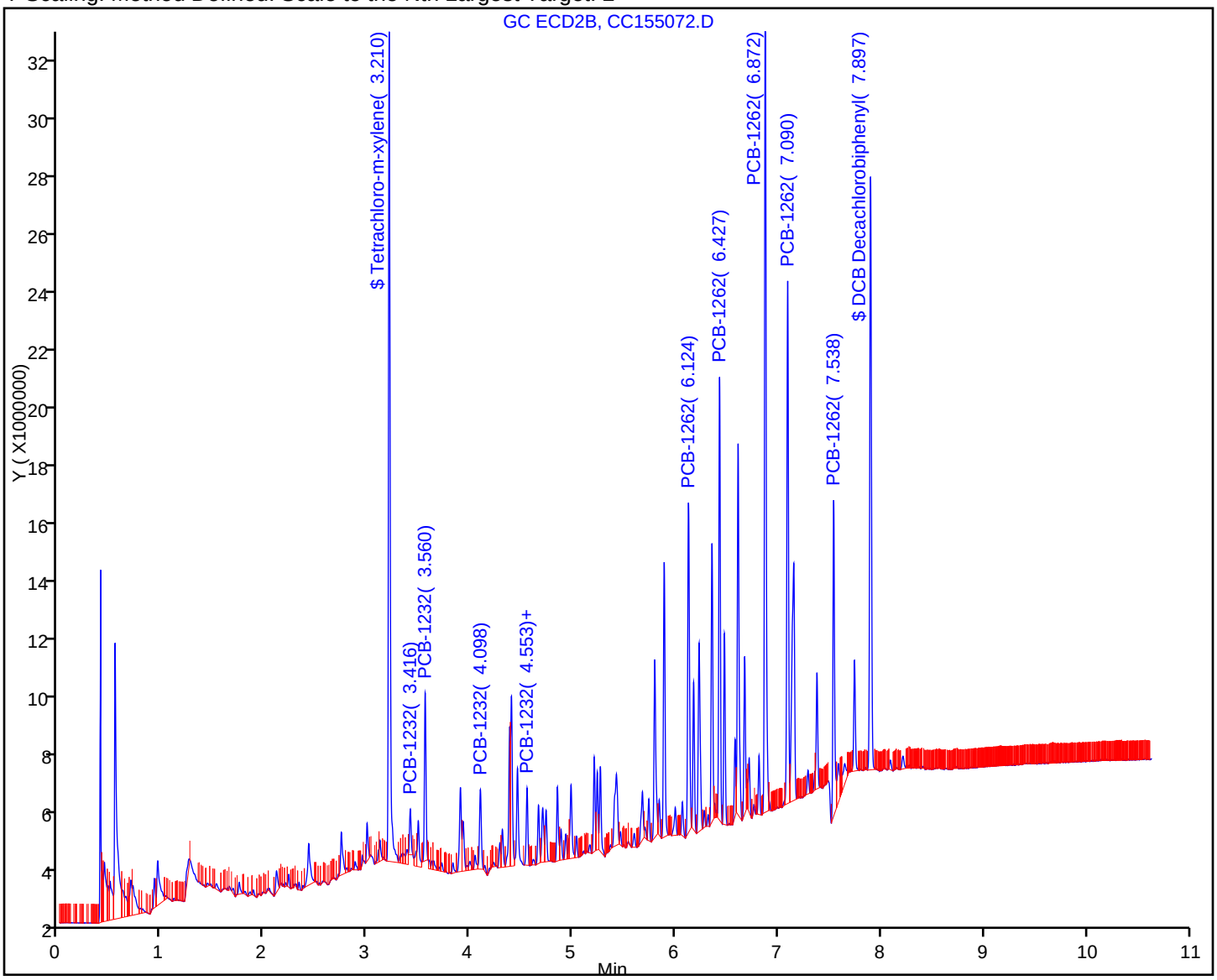
Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 09-Mar-2011 08:26:07 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 09-Mar-2011 08:21:39

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.165	3.164	0.001	12505018	12.1			
2	2	3.210	3.210	0.000	32595410	12.5			
						RPD = 2.91			
$ 2 DCB Decachlorobiphenyl									
1	1	7.862	7.863	-0.001	8650257	11.8			
2	2	7.897	7.898	-0.001	23288148	11.4			
						RPD = 2.82			
4 PCB-1232									
1	1	3.398	3.398	0.000	783952	108.1		100.0	M
1	2	3.558	3.558	0.000	2450361	108.7	25.3- 85.3	312.6	M
1	3	0.0	4.094	-4.094	0	0	18.4- 78.4		
1	4	4.419	4.418	0.001	1561339	116.9	13.3- 73.3	199.2	M
1	5	4.545	4.544	0.001	1505886	132.1	13.9- 73.9	192.1	
			Average of Peak Amounts =			116.5			
2	1	3.416	3.416	0.000	1708581	85.7		100.0	M
2	2	3.560	3.561	-0.001	6068152	107.7	26.2- 86.2	355.2	M
2	3	4.098	4.098	0.000	3381907	101.2	33.0- 93.0	197.9	
2	4	4.553	4.459	0.094	2864539	82.0	19.2- 79.2	167.7	M
2	5	4.553	4.553	0.000	2864539	100.8	6.1- 66.1	167.7	M
			Average of Peak Amounts =			95.5			
						RPD = 19.79			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
10 PCB-1262									
1	1	6.018	6.017	0.001	5272823	116.4		100.0	
1	2	6.348	6.348	0.000	7182266	115.3	69.3- 129.3	136.2	
1	3	6.786	6.786	0.000	13109066	116.6	165.2- 225.2	248.6	
1	4	7.075	7.076	-0.001	9542964	114.4	114.1- 174.1	181.0	
1	5	7.474	7.475	-0.001	4170971	114.5	34.4- 94.4	79.1	
			Average of Peak Amounts =			115.4			
2	6	6.124	6.125	-0.001	13512373	113.2		100.0	
2	7	6.427	6.428	-0.001	15528118	114.1	59.8- 119.8	114.9	
2	8	6.872	6.873	-0.001	31766475	116.9	166.0- 226.0	235.1	
2	9	7.090	7.091	-0.001	19639187	117.6	90.8- 150.8	145.3	
2	10	7.538	7.538	0.000	11798722	132.9	38.9- 98.9	87.3	
			Average of Peak Amounts =			118.9			
						RPD = 2.99			

Report Date: 09-Mar-2011 08:26:31 Chrom Revision: 1.2 17-Feb-2011 18:05:56
Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155072.D
Injection Date: 03-Mar-2011 16:20:20 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 81563 Lims Sample ID: 22
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155079.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1031214	1223067		11.9	10.0	18.6	20.0
DCB Decachlorobiphenyl	Lin1		871070		11.9	10.0	18.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155079.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.16	3.13	3.19
DCB Decachlorobiphenyl	7.86	7.83	7.89

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 17:59:17 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 1242
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 29
Lims Batch ID: 81563 Lims Sample ID: 29
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:43:47 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 07-Mar-2011 09:49:19

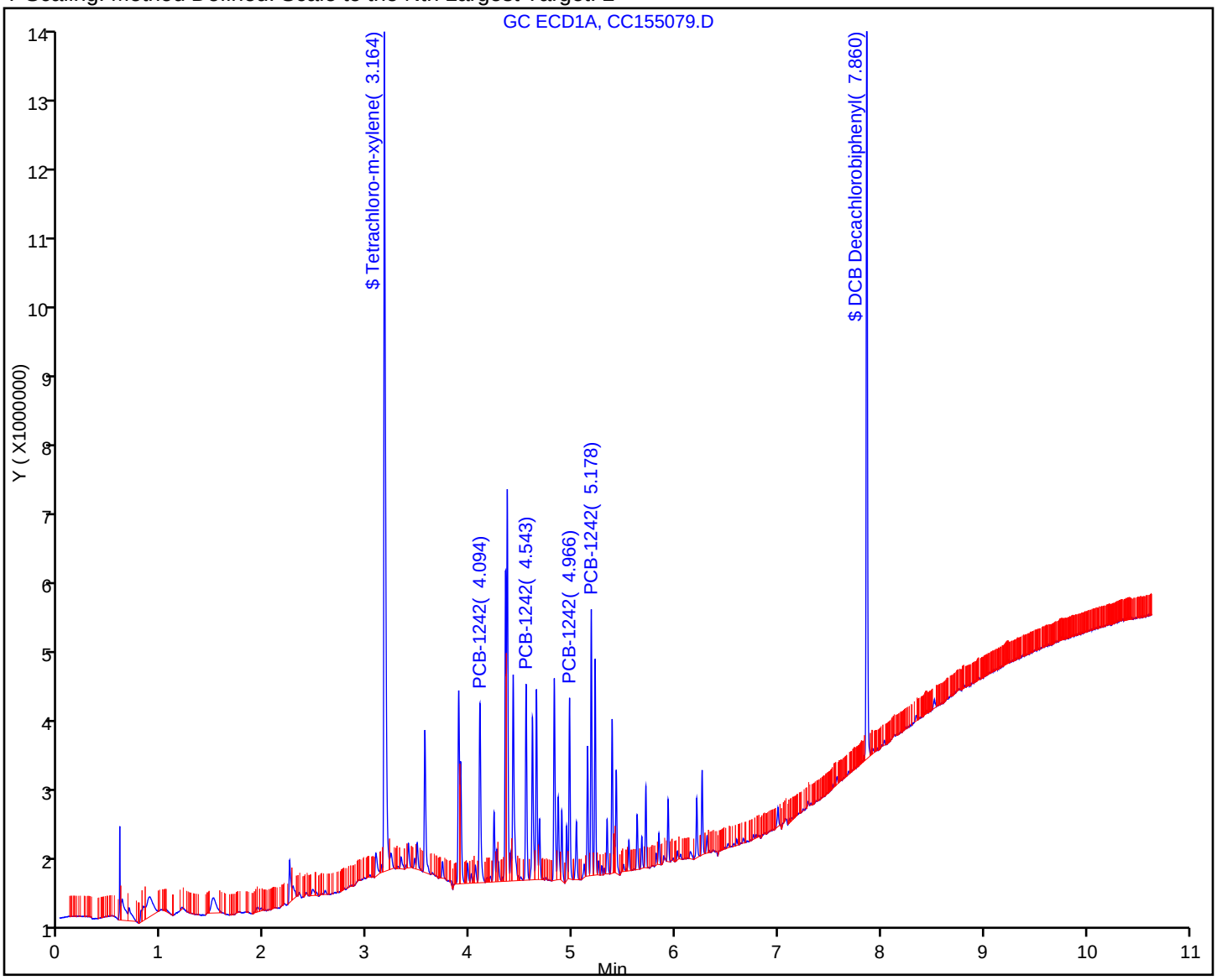
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	12230665	11.9			
2	2	3.210	3.210	0.000	31682445	12.1			
						RPD = 2.28			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	8710703	11.9			
2	2	7.897	7.898	-0.001	23151651	11.4			
						RPD = 4.14			
5 PCB-1242									
1	1	0.0	3.558	-3.558	0	0		100.0	
1	2	4.094	4.094	0.000	2543287	120.7	98.2- 158.2		
1	3	4.543	4.544	-0.001	2334342	108.2	85.0- 145.0		
1	4	4.966	4.967	-0.001	1942418	113.3	102.8- 162.8		
1	5	5.178	5.178	0.000	2731000	116.0	109.0- 169.0		
			Average of Peak Amounts =			114.5			
2	6	0.0	3.561	-3.561	0	0		100.0	
2	7	4.099	4.098	0.001	5971465	105.3	106.5- 166.5		
2	8	4.460	4.460	0.000	6961235	112.9	128.9- 188.9		
2	9	4.553	4.553	0.000	5406131	105.3	94.3- 154.3		
2	10	5.236	5.237	-0.001	5426986	111.0	100.7- 160.7		
			Average of Peak Amounts =			108.6			
						RPD = 5.31			

Report Date: 08-Mar-2011 13:43:54 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D

Injection Date:	03-Mar-2011 17:59:17	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	29
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 16:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 17:45

Lab File ID: CC155079.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0000		0.0600	100	-100.0*	20.0
PCB-1242 Peak 2	Ave	21073	25433		121	100	20.7*	20.0
PCB-1242 Peak 3	Ave	21570	23343		108	100	8.2	20.0
PCB-1242 Peak 4	Ave	17150	19424		113	100	13.3	20.0
PCB-1242 Peak 5	Ave	23546	27310		116	100	16.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 16:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 17:45

Lab File ID: CC155079.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1242 Peak 1	0.00	3.53	3.59
PCB-1242 Peak 2	4.09	4.06	4.12
PCB-1242 Peak 3	4.54	4.51	4.57
PCB-1242 Peak 4	4.97	4.94	5.00
PCB-1242 Peak 5	5.18	5.15	5.21

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 17:59:17 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 1242
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 29
Lims Batch ID: 81563 Lims Sample ID: 29
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:43:47 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 07-Mar-2011 09:49:19

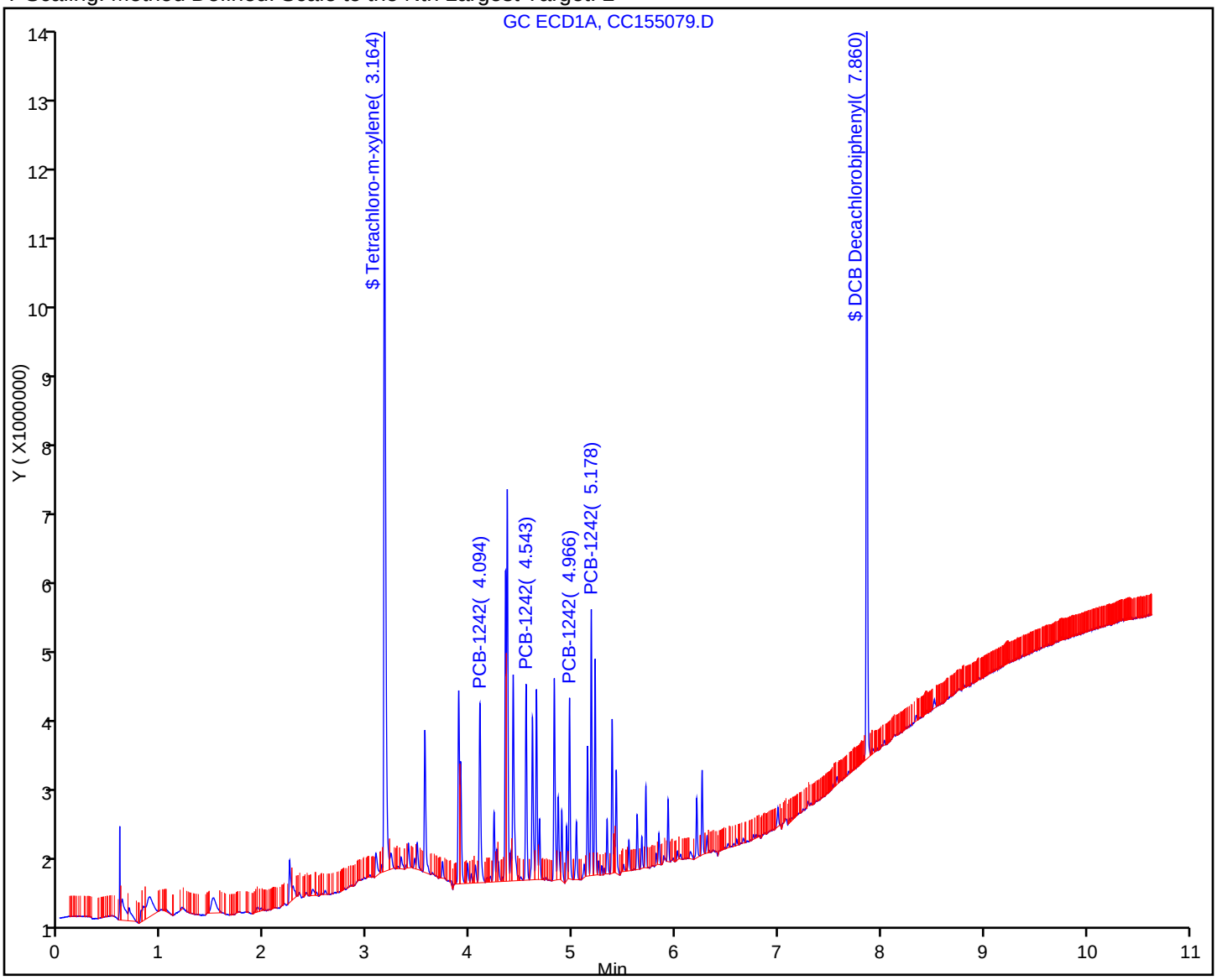
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	12230665	11.9			
2	2	3.210	3.210	0.000	31682445	12.1			
						RPD = 2.28			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	8710703	11.9			
2	2	7.897	7.898	-0.001	23151651	11.4			
						RPD = 4.14			
5 PCB-1242									
1	1	0.0	3.558	-3.558	0	0		100.0	
1	2	4.094	4.094	0.000	2543287	120.7	98.2- 158.2		
1	3	4.543	4.544	-0.001	2334342	108.2	85.0- 145.0		
1	4	4.966	4.967	-0.001	1942418	113.3	102.8- 162.8		
1	5	5.178	5.178	0.000	2731000	116.0	109.0- 169.0		
			Average of Peak Amounts =			114.5			
2	6	0.0	3.561	-3.561	0	0		100.0	
2	7	4.099	4.098	0.001	5971465	105.3	106.5- 166.5		
2	8	4.460	4.460	0.000	6961235	112.9	128.9- 188.9		
2	9	4.553	4.553	0.000	5406131	105.3	94.3- 154.3		
2	10	5.236	5.237	-0.001	5426986	111.0	100.7- 160.7		
			Average of Peak Amounts =			108.6			
						RPD = 5.31			

Report Date: 08-Mar-2011 13:43:54 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D

Injection Date:	03-Mar-2011 17:59:17	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	29
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155079.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	2610963	3168245		12.1	10.0	21.3*	20.0
DCB Decachlorobiphenyl	Ave	2035658	2315165		11.4	10.0	13.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155079.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.21	3.18	3.24
DCB Decachlorobiphenyl	7.90	7.87	7.93

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 17:59:17 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 1242
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 29
Lims Batch ID: 81563 Lims Sample ID: 29
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:43:47 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 07-Mar-2011 09:49:19

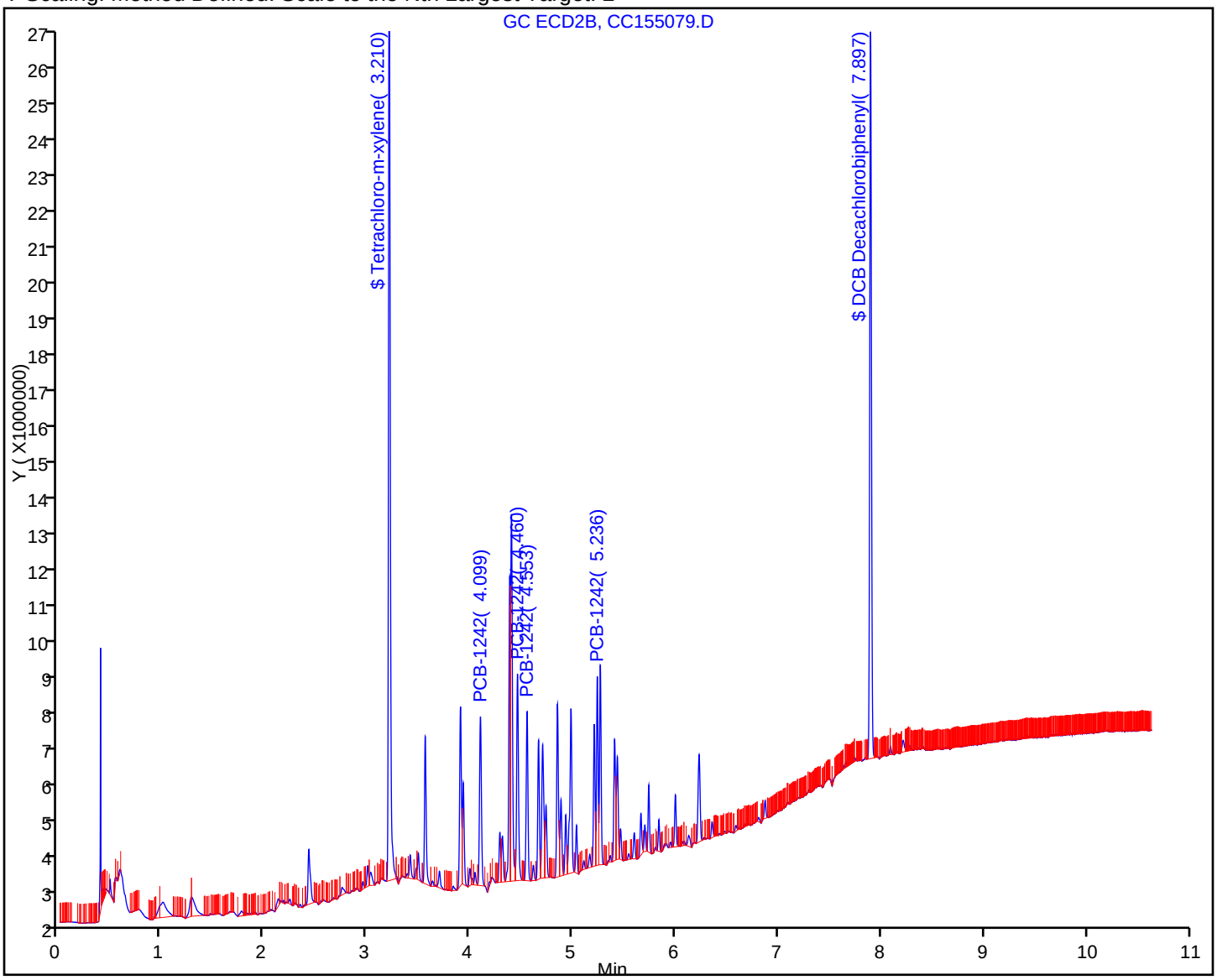
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	12230665	11.9			
2	2	3.210	3.210	0.000	31682445	12.1			
						RPD = 2.28			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	8710703	11.9			
2	2	7.897	7.898	-0.001	23151651	11.4			
						RPD = 4.14			
5 PCB-1242									
1	1	0.0	3.558	-3.558	0	0		100.0	
1	2	4.094	4.094	0.000	2543287	120.7	98.2- 158.2		
1	3	4.543	4.544	-0.001	2334342	108.2	85.0- 145.0		
1	4	4.966	4.967	-0.001	1942418	113.3	102.8- 162.8		
1	5	5.178	5.178	0.000	2731000	116.0	109.0- 169.0		
			Average of Peak Amounts =			114.5			
2	6	0.0	3.561	-3.561	0	0		100.0	
2	7	4.099	4.098	0.001	5971465	105.3	106.5- 166.5		
2	8	4.460	4.460	0.000	6961235	112.9	128.9- 188.9		
2	9	4.553	4.553	0.000	5406131	105.3	94.3- 154.3		
2	10	5.236	5.237	-0.001	5426986	111.0	100.7- 160.7		
			Average of Peak Amounts =			108.6			
						RPD = 5.31			

Report Date: 08-Mar-2011 13:43:54 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D

Injection Date:	03-Mar-2011 17:59:17	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	29
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 16:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 17:45

Lab File ID: CC155079.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	40863	0.0000		0.0600	100	-100.0*	20.0
PCB-1242 Peak 2	Ave	56685	59715		105	100	5.3	20.0
PCB-1242 Peak 3	Ave	61673	69612		113	100	12.9	20.0
PCB-1242 Peak 4	Ave	51346	54061		105	100	5.3	20.0
PCB-1242 Peak 5	Ave	48912	54270		111	100	11.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/29 Calibration Date: 03/03/2011 17:59

Instrument ID: TAC042 Calib Start Date: 03/03/2011 16:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 17:45

Lab File ID: CC155079.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1242 Peak 1	0.00	3.53	3.59
PCB-1242 Peak 2	4.10	4.07	4.13
PCB-1242 Peak 3	4.46	4.43	4.49
PCB-1242 Peak 4	4.55	4.52	4.58
PCB-1242 Peak 5	5.24	5.21	5.27

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 17:59:17 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 1242
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 29
Lims Batch ID: 81563 Lims Sample ID: 29
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:43:47 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 07-Mar-2011 09:49:19

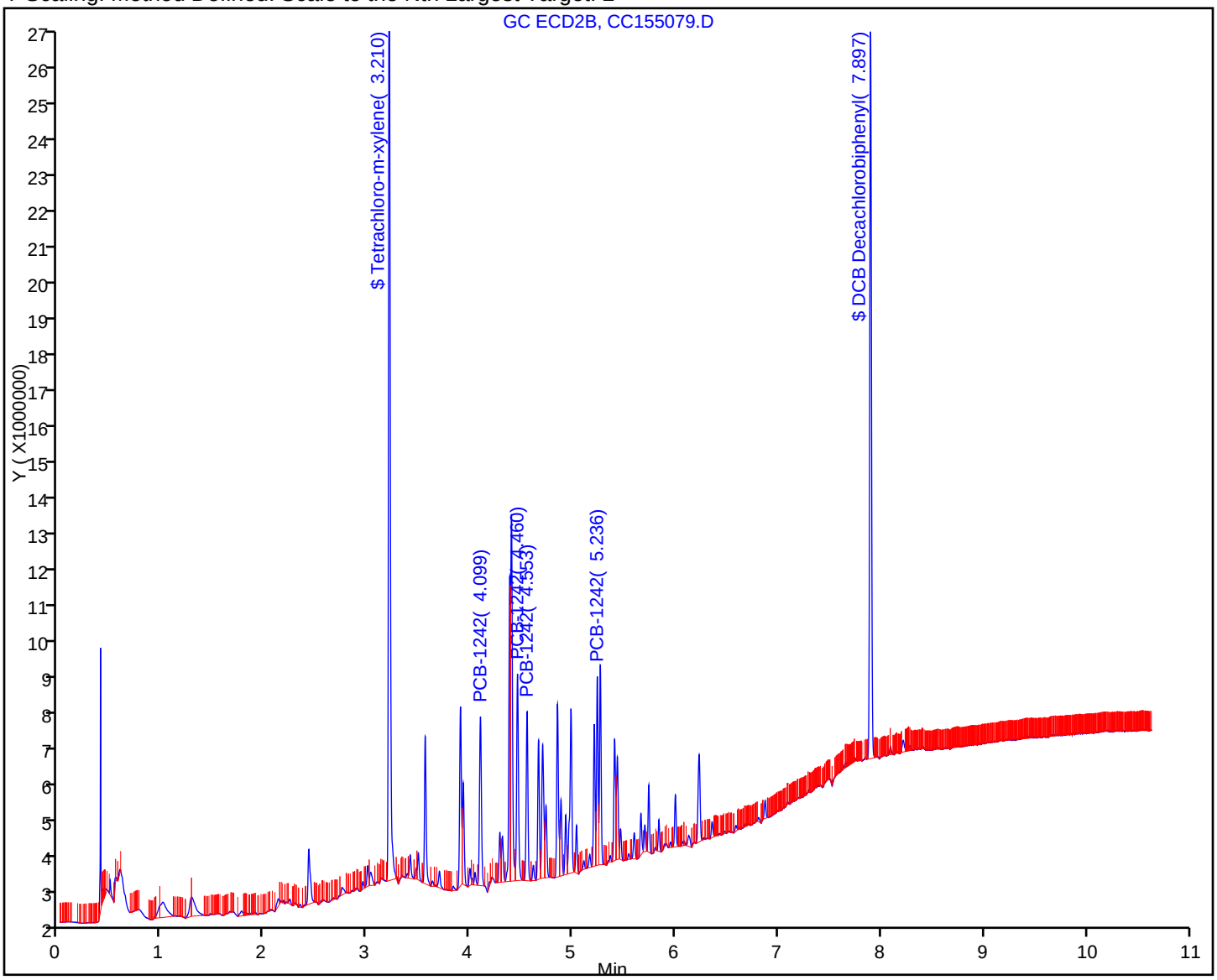
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.164	3.164	0.000	12230665	11.9			
2	2	3.210	3.210	0.000	31682445	12.1			
						RPD = 2.28			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	8710703	11.9			
2	2	7.897	7.898	-0.001	23151651	11.4			
						RPD = 4.14			
5 PCB-1242									
1	1	0.0	3.558	-3.558	0	0		100.0	
1	2	4.094	4.094	0.000	2543287	120.7	98.2- 158.2		
1	3	4.543	4.544	-0.001	2334342	108.2	85.0- 145.0		
1	4	4.966	4.967	-0.001	1942418	113.3	102.8- 162.8		
1	5	5.178	5.178	0.000	2731000	116.0	109.0- 169.0		
			Average of Peak Amounts =			114.5			
2	6	0.0	3.561	-3.561	0	0		100.0	
2	7	4.099	4.098	0.001	5971465	105.3	106.5- 166.5		
2	8	4.460	4.460	0.000	6961235	112.9	128.9- 188.9		
2	9	4.553	4.553	0.000	5406131	105.3	94.3- 154.3		
2	10	5.236	5.237	-0.001	5426986	111.0	100.7- 160.7		
			Average of Peak Amounts =			108.6			
						RPD = 5.31			

Report Date: 08-Mar-2011 13:43:54 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155079.D

Injection Date:	03-Mar-2011 17:59:17	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	29
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155086.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	1031214	1161696		11.3	10.0	12.7	20.0
DCB Decachlorobiphenyl	Lin1		1518532		21.1	10.0	111.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155086.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.16	3.13	3.19
DCB Decachlorobiphenyl	7.86	7.83	7.89

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 19:38:16 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 4868
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 36
Lims Batch ID: 81563 Lims Sample ID: 36
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:35 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:54:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.163	3.164	-0.001	11616962	11.3			
2	2	3.210	3.210	0.000	30353654	11.6			
						RPD = 3.15			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	15185324	21.1			
2	2	7.897	7.898	-0.001	39915804	19.6			
						RPD = 7.33			
7 PCB-1248									
1	1	0.0	4.605	-4.605	0	0		100.0	
1	2	0.0	4.818	-4.818	0	0	59.5- 119.5		
1	3	5.177	5.178	-0.001	5519896	113.3	86.4- 146.4		
1	4	5.380	5.380	0.000	3088445	113.7	47.5- 107.5		
1	5	5.708	5.708	0.000	2272964	108.8	121.3- 181.3		
			Average of Peak Amounts =			111.9			
2	6	0.0	4.664	-4.664	0	0		100.0	
2	7	0.0	4.849	-4.849	0	0	179.4- 239.4		
2	8	5.237	5.236	0.001	10300591	115.8	220.9- 280.9		
2	9	5.405	5.405	0.000	8447248	114.5	149.6- 209.6		
2	10	5.737	5.738	-0.001	5553665	101.5	176.2- 236.2		
			Average of Peak Amounts =			110.6			
						RPD = 1.20			

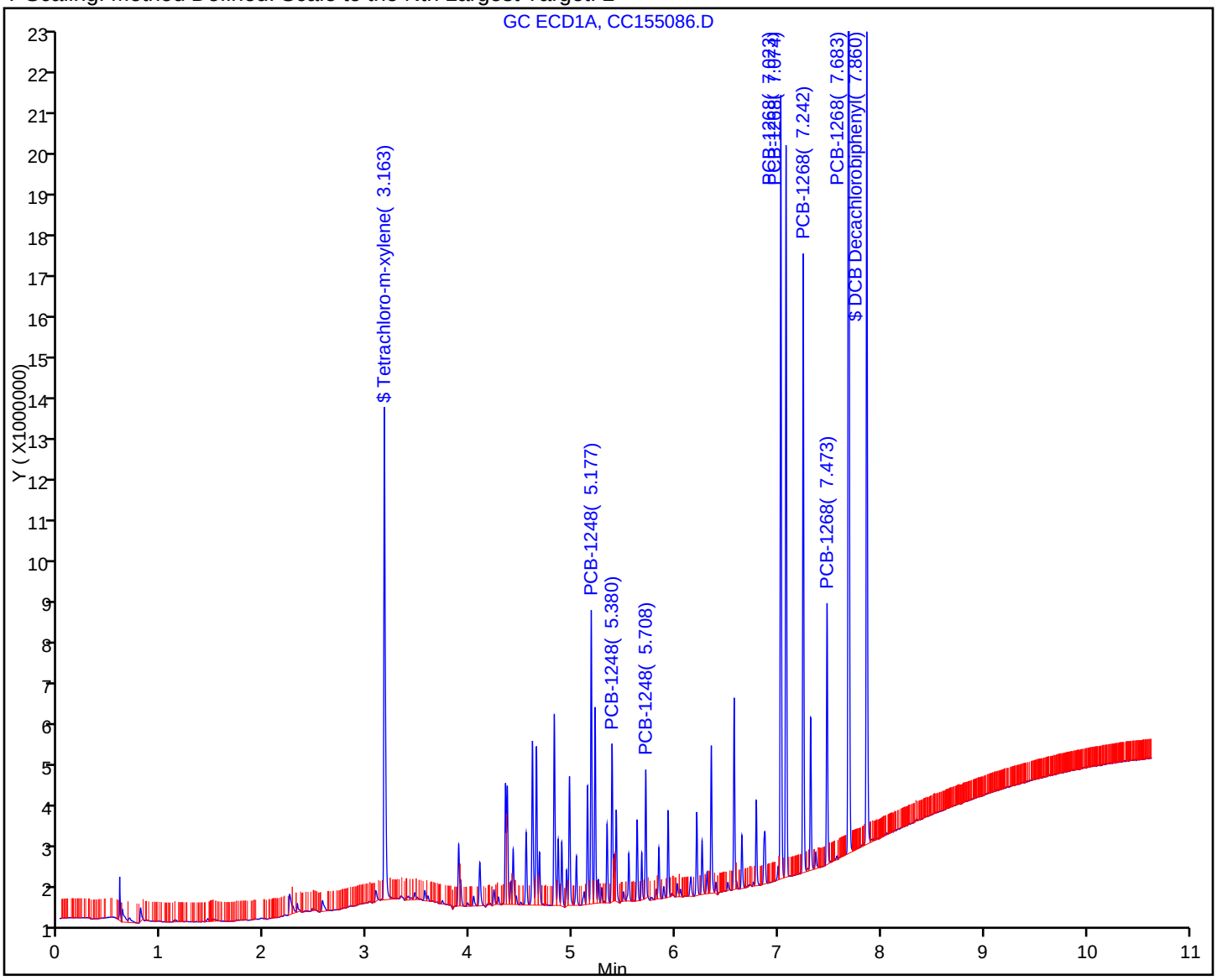
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
11 PCB-1268									
1	1	7.023	7.023	0.000	14508097	110.8		100.0	
1	2	7.074	7.074	0.000	13264624	110.2	60.7- 120.7	91.4	
1	3	7.242	7.241	0.001	11008645	112.4	44.7- 104.7	75.9	
1	4	7.473	7.473	0.000	4729965	113.8	1.1- 61.1	32.6	
1	5	7.683	7.683	0.000	28681776	123.3	199.6- 259.6	197.7	
			Average of Peak Amounts =			114.1			
2	6	7.088	7.088	0.000	34473264	112.0		100.0	
2	7	7.151	7.150	0.001	31629866	113.2	58.5- 118.5	91.8	
2	8	7.287	7.287	0.000	26422086	111.5	44.9- 104.9	76.6	
2	9	7.537	7.538	-0.001	11039979	105.3	3.5- 63.5	32.0	
2	10	7.741	7.741	0.000	91474055	109.4	204.5- 264.5	265.3	
			Average of Peak Amounts =			110.3			
						RPD = 3.43			

Report Date: 08-Mar-2011 13:44:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D

Injection Date:	03-Mar-2011 19:38:16	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	36
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 18:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 19:24

Lab File ID: CC155086.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	30555	0.0000		0.0600	100	-100.0*	20.0
PCB-1248 Peak 2	Ave	35731	0.0000		0.0600	100	-100.0*	20.0
PCB-1248 Peak 3	Ave	48736	55199		113	100	13.3	20.0
PCB-1248 Peak 4	Ave	27168	30884		114	100	13.7	20.0
PCB-1248 Peak 5	Lin1		22730		109	100	8.8	20.0
PCB-1268 Peak 1	Ave	130892	145081		111	100	10.8	20.0
PCB-1268 Peak 2	Ave	120355	132646		110	100	10.2	20.0
PCB-1268 Peak 3	Ave	97940	110086		112	100	12.4	20.0
PCB-1268 Peak 4	Ave	41554	47300		114	100	13.8	20.0
PCB-1268 Peak 5	Ave	232575	286818		123	100	23.3*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 18:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 19:24

Lab File ID: CC155086.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1248 Peak 1	0.00	4.58	4.64
PCB-1248 Peak 2	0.00	4.79	4.85
PCB-1248 Peak 3	5.18	5.15	5.21
PCB-1248 Peak 4	5.38	5.35	5.41
PCB-1248 Peak 5	5.71	5.68	5.74
PCB-1268 Peak 1	7.02	6.99	7.05
PCB-1268 Peak 2	7.07	7.04	7.10
PCB-1268 Peak 3	7.24	7.21	7.27
PCB-1268 Peak 4	7.47	7.44	7.50
PCB-1268 Peak 5	7.68	7.65	7.71

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 19:38:16 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 4868
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 36
Lims Batch ID: 81563 Lims Sample ID: 36
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:35 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:54:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.163	3.164	-0.001	11616962	11.3			
2	2	3.210	3.210	0.000	30353654	11.6			
						RPD = 3.15			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	15185324	21.1			
2	2	7.897	7.898	-0.001	39915804	19.6			
						RPD = 7.33			
7 PCB-1248									
1	1	0.0	4.605	-4.605	0	0		100.0	
1	2	0.0	4.818	-4.818	0	0	59.5- 119.5		
1	3	5.177	5.178	-0.001	5519896	113.3	86.4- 146.4		
1	4	5.380	5.380	0.000	3088445	113.7	47.5- 107.5		
1	5	5.708	5.708	0.000	2272964	108.8	121.3- 181.3		
			Average of Peak Amounts =			111.9			
2	6	0.0	4.664	-4.664	0	0		100.0	
2	7	0.0	4.849	-4.849	0	0	179.4- 239.4		
2	8	5.237	5.236	0.001	10300591	115.8	220.9- 280.9		
2	9	5.405	5.405	0.000	8447248	114.5	149.6- 209.6		
2	10	5.737	5.738	-0.001	5553665	101.5	176.2- 236.2		
			Average of Peak Amounts =			110.6			
						RPD = 1.20			

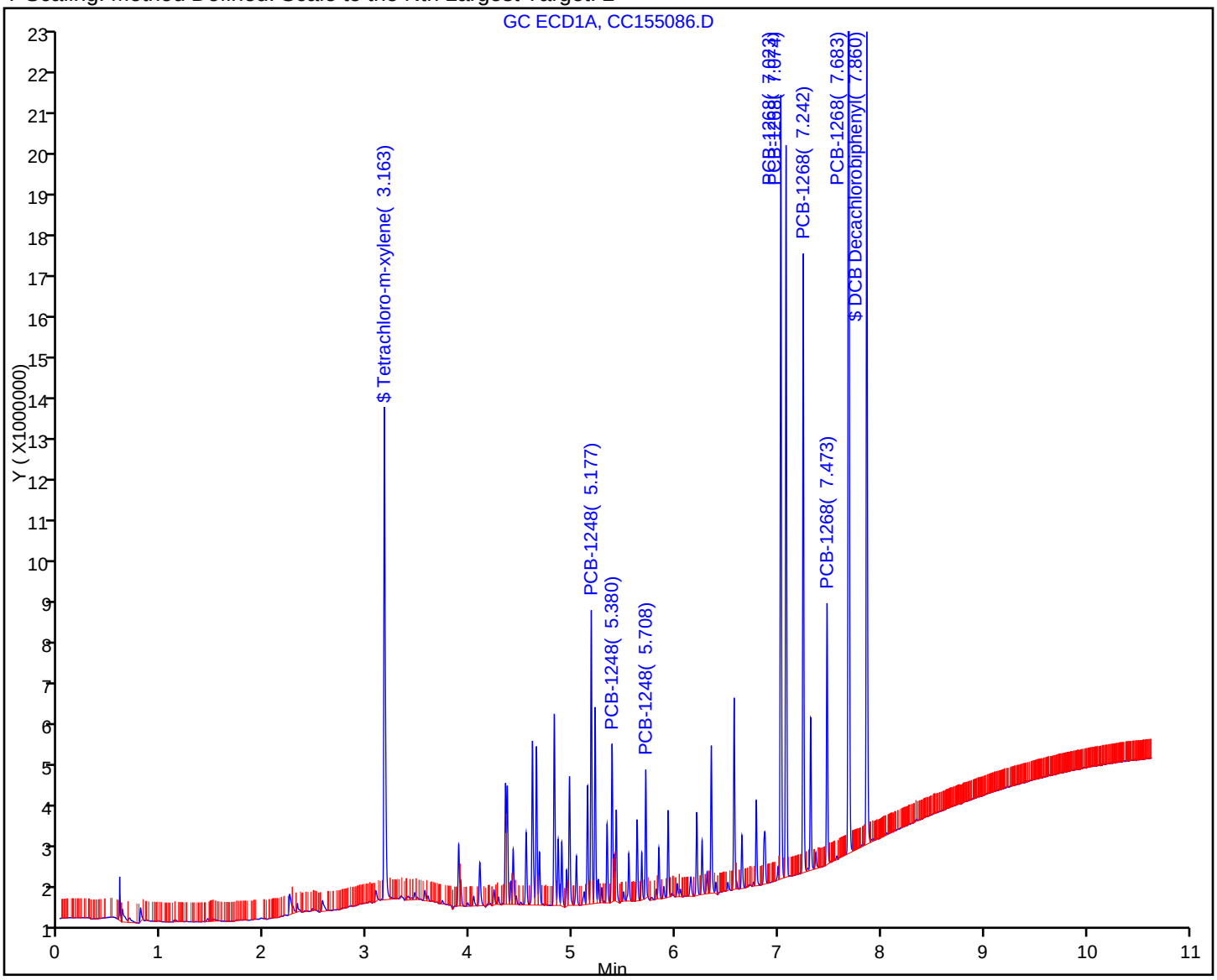
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
11 PCB-1268									
1	1	7.023	7.023	0.000	14508097	110.8		100.0	
1	2	7.074	7.074	0.000	13264624	110.2	60.7- 120.7	91.4	
1	3	7.242	7.241	0.001	11008645	112.4	44.7- 104.7	75.9	
1	4	7.473	7.473	0.000	4729965	113.8	1.1- 61.1	32.6	
1	5	7.683	7.683	0.000	28681776	123.3	199.6- 259.6	197.7	
			Average of Peak Amounts =			114.1			
2	6	7.088	7.088	0.000	34473264	112.0		100.0	
2	7	7.151	7.150	0.001	31629866	113.2	58.5- 118.5	91.8	
2	8	7.287	7.287	0.000	26422086	111.5	44.9- 104.9	76.6	
2	9	7.537	7.538	-0.001	11039979	105.3	3.5- 63.5	32.0	
2	10	7.741	7.741	0.000	91474055	109.4	204.5- 264.5	265.3	
			Average of Peak Amounts =			110.3			
						RPD = 3.43			

Report Date: 08-Mar-2011 13:44:35 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D

Injection Date:	03-Mar-2011 19:38:16	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	36
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155086.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	2610963	3035365		11.6	10.0	16.3	20.0
DCB Decachlorobiphenyl	Ave	2035658	3991580		19.6	10.0	96.1*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC155086.D

Analyte	RT	RT WINDOW	
		TO	FROM
Tetrachloro-m-xylene	3.21	3.18	3.24
DCB Decachlorobiphenyl	7.90	7.87	7.93

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 19:38:16 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 4868
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 36
Lims Batch ID: 81563 Lims Sample ID: 36
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:35 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:54:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.163	3.164	-0.001	11616962	11.3			
2	2	3.210	3.210	0.000	30353654	11.6			
						RPD = 3.15			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	15185324	21.1			
2	2	7.897	7.898	-0.001	39915804	19.6			
						RPD = 7.33			
7 PCB-1248									
1	1	0.0	4.605	-4.605	0	0		100.0	
1	2	0.0	4.818	-4.818	0	0	59.5- 119.5		
1	3	5.177	5.178	-0.001	5519896	113.3	86.4- 146.4		
1	4	5.380	5.380	0.000	3088445	113.7	47.5- 107.5		
1	5	5.708	5.708	0.000	2272964	108.8	121.3- 181.3		
			Average of Peak Amounts =			111.9			
2	6	0.0	4.664	-4.664	0	0		100.0	
2	7	0.0	4.849	-4.849	0	0	179.4- 239.4		
2	8	5.237	5.236	0.001	10300591	115.8	220.9- 280.9		
2	9	5.405	5.405	0.000	8447248	114.5	149.6- 209.6		
2	10	5.737	5.738	-0.001	5553665	101.5	176.2- 236.2		
			Average of Peak Amounts =			110.6			
						RPD = 1.20			

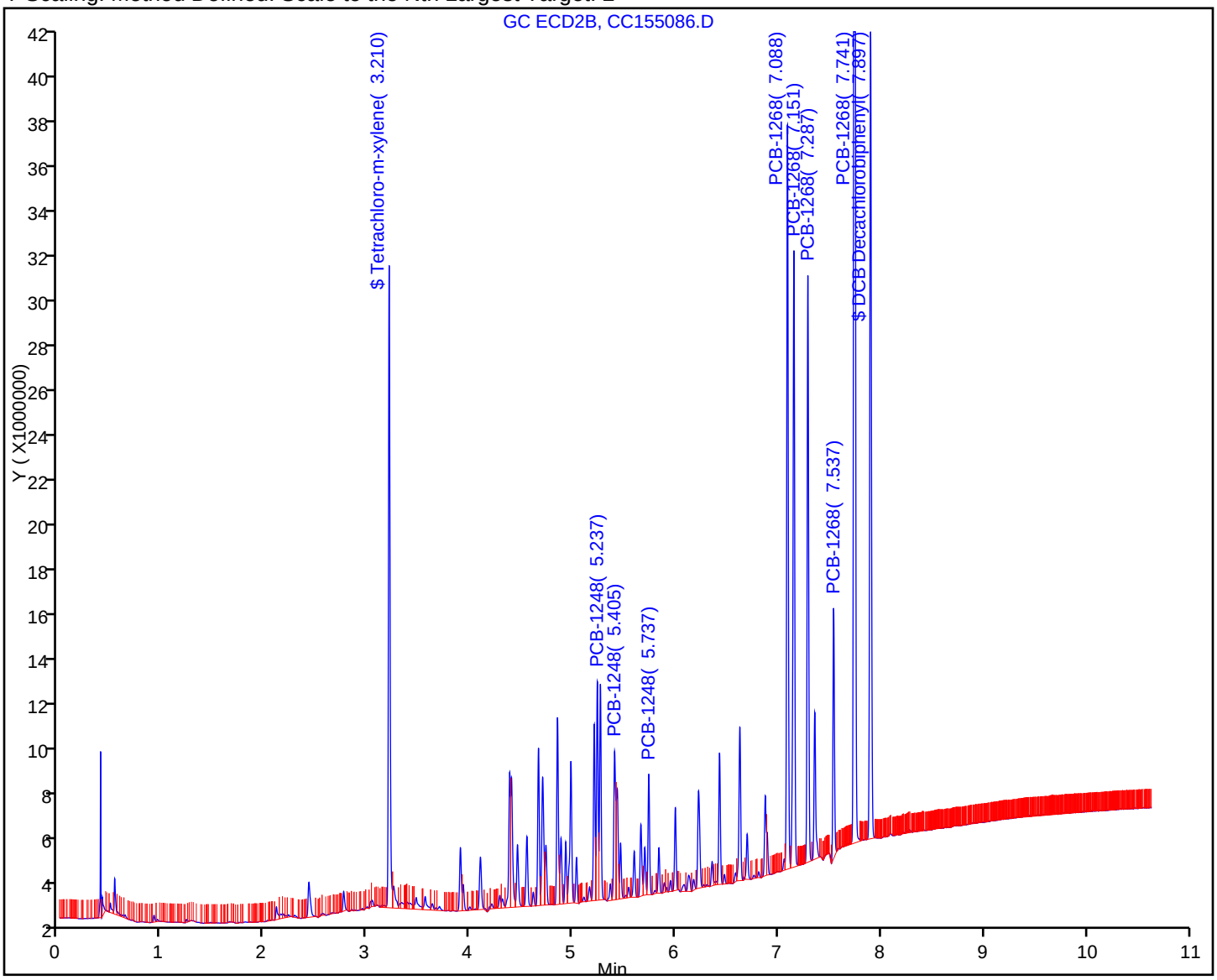
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
11 PCB-1268									
1	1	7.023	7.023	0.000	14508097	110.8		100.0	
1	2	7.074	7.074	0.000	13264624	110.2	60.7- 120.7	91.4	
1	3	7.242	7.241	0.001	11008645	112.4	44.7- 104.7	75.9	
1	4	7.473	7.473	0.000	4729965	113.8	1.1- 61.1	32.6	
1	5	7.683	7.683	0.000	28681776	123.3	199.6- 259.6	197.7	
			Average of Peak Amounts =			114.1			
2	6	7.088	7.088	0.000	34473264	112.0		100.0	
2	7	7.151	7.150	0.001	31629866	113.2	58.5- 118.5	91.8	
2	8	7.287	7.287	0.000	26422086	111.5	44.9- 104.9	76.6	
2	9	7.537	7.538	-0.001	11039979	105.3	3.5- 63.5	32.0	
2	10	7.741	7.741	0.000	91474055	109.4	204.5- 264.5	265.3	
			Average of Peak Amounts =			110.3			
						RPD = 3.43			

Report Date: 08-Mar-2011 13:44:36 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D

Injection Date:	03-Mar-2011 19:38:16	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	36
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 18:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 19:24

Lab File ID: CC155086.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Ave	67962	0.0000		0.0600	100	-100.0*	20.0
PCB-1248 Peak 2	Ave	82371	0.0000		0.0600	100	-100.0*	20.0
PCB-1248 Peak 3	Ave	88958	103006		116	100	15.8	20.0
PCB-1248 Peak 4	Ave	73773	84472		115	100	14.5	20.0
PCB-1248 Peak 5	Ave	54722	55537		101	100	1.5	20.0
PCB-1268 Peak 1	Ave	307805	344733		112	100	12.0	20.0
PCB-1268 Peak 2	Ave	279524	316299		113	100	13.2	20.0
PCB-1268 Peak 3	Ave	237025	264221		111	100	11.5	20.0
PCB-1268 Peak 4	Ave	104841	110400		105	100	5.3	20.0
PCB-1268 Peak 5	Ave	835871	914741		109	100	9.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICV 580-81563/36 Calibration Date: 03/03/2011 19:38

Instrument ID: TAC042 Calib Start Date: 03/03/2011 18:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 19:24

Lab File ID: CC155086.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1248 Peak 1	0.00	4.63	4.69
PCB-1248 Peak 2	0.00	4.82	4.88
PCB-1248 Peak 3	5.24	5.21	5.27
PCB-1248 Peak 4	5.41	5.38	5.44
PCB-1248 Peak 5	5.74	5.71	5.77
PCB-1268 Peak 1	7.09	7.06	7.12
PCB-1268 Peak 2	7.15	7.12	7.18
PCB-1268 Peak 3	7.29	7.26	7.32
PCB-1268 Peak 4	7.54	7.51	7.57
PCB-1268 Peak 5	7.74	7.71	7.77

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D
Lims ID: icv Client ID:
Inject. Date: 03-Mar-2011 19:38:16 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: icv 4868
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 36
Lims Batch ID: 81563 Lims Sample ID: 36
Sublist:
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110303-14838.b\8082_TAC042.m
Last Update: 08-Mar-2011 13:44:35 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 08-Mar-2011 10:54:59

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.163	3.164	-0.001	11616962	11.3			
2	2	3.210	3.210	0.000	30353654	11.6			
						RPD = 3.15			
$ 2 DCB Decachlorobiphenyl									
1	1	7.860	7.863	-0.003	15185324	21.1			
2	2	7.897	7.898	-0.001	39915804	19.6			
						RPD = 7.33			
7 PCB-1248									
1	1	0.0	4.605	-4.605	0	0		100.0	
1	2	0.0	4.818	-4.818	0	0	59.5- 119.5		
1	3	5.177	5.178	-0.001	5519896	113.3	86.4- 146.4		
1	4	5.380	5.380	0.000	3088445	113.7	47.5- 107.5		
1	5	5.708	5.708	0.000	2272964	108.8	121.3- 181.3		
			Average of Peak Amounts =			111.9			
2	6	0.0	4.664	-4.664	0	0		100.0	
2	7	0.0	4.849	-4.849	0	0	179.4- 239.4		
2	8	5.237	5.236	0.001	10300591	115.8	220.9- 280.9		
2	9	5.405	5.405	0.000	8447248	114.5	149.6- 209.6		
2	10	5.737	5.738	-0.001	5553665	101.5	176.2- 236.2		
			Average of Peak Amounts =			110.6			
						RPD = 1.20			

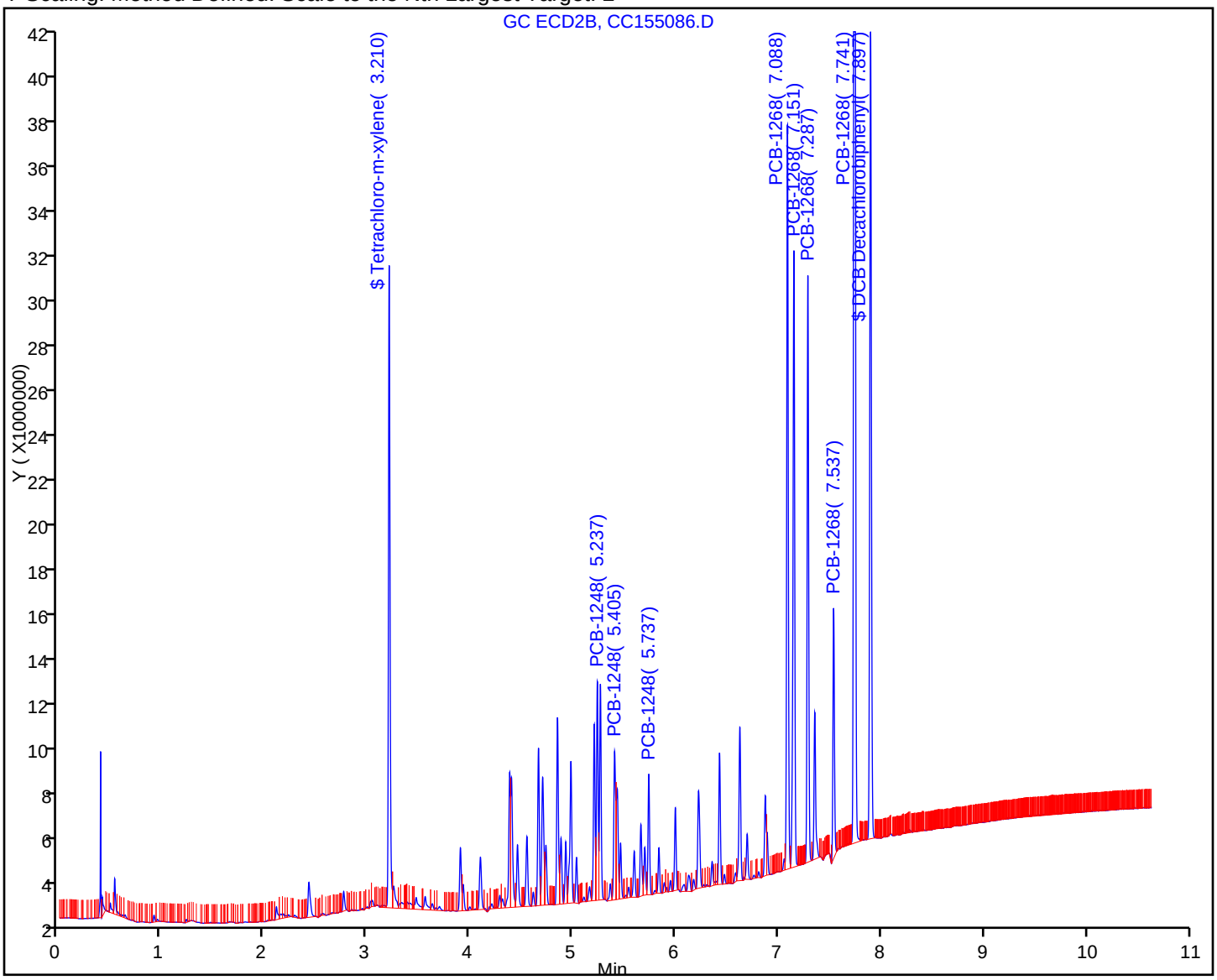
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
11 PCB-1268									
1	1	7.023	7.023	0.000	14508097	110.8		100.0	
1	2	7.074	7.074	0.000	13264624	110.2	60.7- 120.7	91.4	
1	3	7.242	7.241	0.001	11008645	112.4	44.7- 104.7	75.9	
1	4	7.473	7.473	0.000	4729965	113.8	1.1- 61.1	32.6	
1	5	7.683	7.683	0.000	28681776	123.3	199.6- 259.6	197.7	
			Average of Peak Amounts =			114.1			
2	6	7.088	7.088	0.000	34473264	112.0		100.0	
2	7	7.151	7.150	0.001	31629866	113.2	58.5- 118.5	91.8	
2	8	7.287	7.287	0.000	26422086	111.5	44.9- 104.9	76.6	
2	9	7.537	7.538	-0.001	11039979	105.3	3.5- 63.5	32.0	
2	10	7.741	7.741	0.000	91474055	109.4	204.5- 264.5	265.3	
			Average of Peak Amounts =			110.3			
						RPD = 3.43			

Report Date: 08-Mar-2011 13:44:36 Chrom Revision: 1.2 17-Feb-2011 18:05:56

Data File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155086.D

Injection Date:	03-Mar-2011 19:38:16	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	81563	Lims Sample ID:	36
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-92903/2 Calibration Date: 08/16/2011 07:39

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158740.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	26078	28248		108	100	8.3	20.0
PCB-1016 Peak 2	Ave	25989	29085		112	100	11.9	20.0
PCB-1016 Peak 3	Ave	46857	54787		117	100	16.9	20.0
PCB-1016 Peak 4	Lin1		24037		113	100	12.6	20.0
PCB-1016 Peak 5	Ave	26749	29154		109	100	9.0	20.0
PCB-1260 Peak 1	Ave	51857	55006		106	100	6.1	20.0
PCB-1260 Peak 2	Lin1		63993		111	100	11.1	20.0
PCB-1260 Peak 3	Lin1		80143		112	100	11.8	20.0
PCB-1260 Peak 4	Ave	91214	92949		102	100	1.9	20.0
PCB-1260 Peak 5	Ave	71029	73994		104	100	4.2	20.0
Tetrachloro-m-xylene	Ave	1031214	1089747		10.6	10.0	5.7	20.0
DCB Decachlorobiphenyl	Lin1		956806		13.1	10.0	31.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-92903/2 Calibration Date: 08/16/2011 07:39

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158740.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.70	3.67	3.73
PCB-1016 Peak 2	3.90	3.87	3.93
PCB-1016 Peak 3	4.17	4.14	4.20
PCB-1016 Peak 4	4.42	4.39	4.45
PCB-1016 Peak 5	4.63	4.60	4.66
PCB-1260 Peak 1	5.65	5.62	5.68
PCB-1260 Peak 2	5.83	5.80	5.86
PCB-1260 Peak 3	6.12	6.09	6.15
PCB-1260 Peak 4	6.60	6.57	6.63
PCB-1260 Peak 5	6.89	6.86	6.92
Tetrachloro-m-xylene	3.01	2.98	3.04
DCB Decachlorobiphenyl	7.67	7.64	7.70

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D
Lims ID: ccvrt Client ID:
Inject. Date: 16-Aug-2011 07:39:19 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: ccvrt
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 92903 Lims Sample ID: 2
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 10:10:56 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 16-Aug-2011 10:10:56

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.014	3.014	0.000	10898455	10.6			
2	2	3.109	3.109	0.000	27363499	10.5			
						RPD = 0.84			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.672	7.672	0.000	9568062	13.1			M
2	2	7.772	7.772	0.000	21796565	10.7			M
						RPD = 19.94			
6 PCB-1016									M
1	1	3.701	3.701	0.000	2824808	108.3		100.0	
1	2	3.901	3.901	0.000	2908547	111.9	73.0- 133.0	103.0	
1	3	4.169	4.169	0.000	5478721	116.9	164.0- 224.0	194.0	M
1	4	4.416	4.416	0.000	2403706	112.6	55.1- 115.1	85.1	M
1	5	4.628	4.628	0.000	2915440	109.0	73.2- 133.2	103.2	M
			Average of Peak Amounts =			111.8			
2	6	3.776	3.776	0.000	6965038	108.7		100.0	
2	7	3.969	3.969	0.000	6594902	109.7	64.7- 124.7	94.7	
2	8	4.276	4.276	0.000	14603972	116.1	179.7- 239.7	209.7	
2	9	4.540	4.540	0.000	5140994	109.5	43.8- 103.8	73.8	
2	10	4.724	4.724	0.000	6483162	111.5	63.1- 123.1	93.1	
			Average of Peak Amounts =			111.1			
						RPD = 0.59			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									M
1	1	5.649	5.649	0.000	5500599	106.1		100.0	M
1	2	5.833	5.833	0.000	6399328	111.1	86.3- 146.3	116.3	M
1	3	6.119	6.119	0.000	8014266	111.8	115.7- 175.7	145.7	
1	4	6.602	6.602	0.000	9294913	101.9	139.0- 199.0	169.0	
1	5	6.888	6.888	0.000	7399399	104.2	104.5- 164.5	134.5	
			Average of Peak Amounts =			107.0			
2	6	5.766	5.766	0.000	12463054	108.5		100.0	M
2	7	6.005	6.005	0.000	19020176	109.7	122.6- 182.6	152.6	
2	8	6.234	6.234	0.000	18619236	112.3	119.4- 179.4	149.4	M
2	9	6.754	6.754	0.000	24212764	112.6	164.3- 224.3	194.3	
2	10	6.974	6.974	0.000	14149455	109.1	83.5- 143.5	113.5	
			Average of Peak Amounts =			110.4			
						RPD = 3.16			
S 12 Polychlorinated biphenyls, Total									
1						218.8			
2						221.5			
						RPD = 1.26			

QC Flag Legend

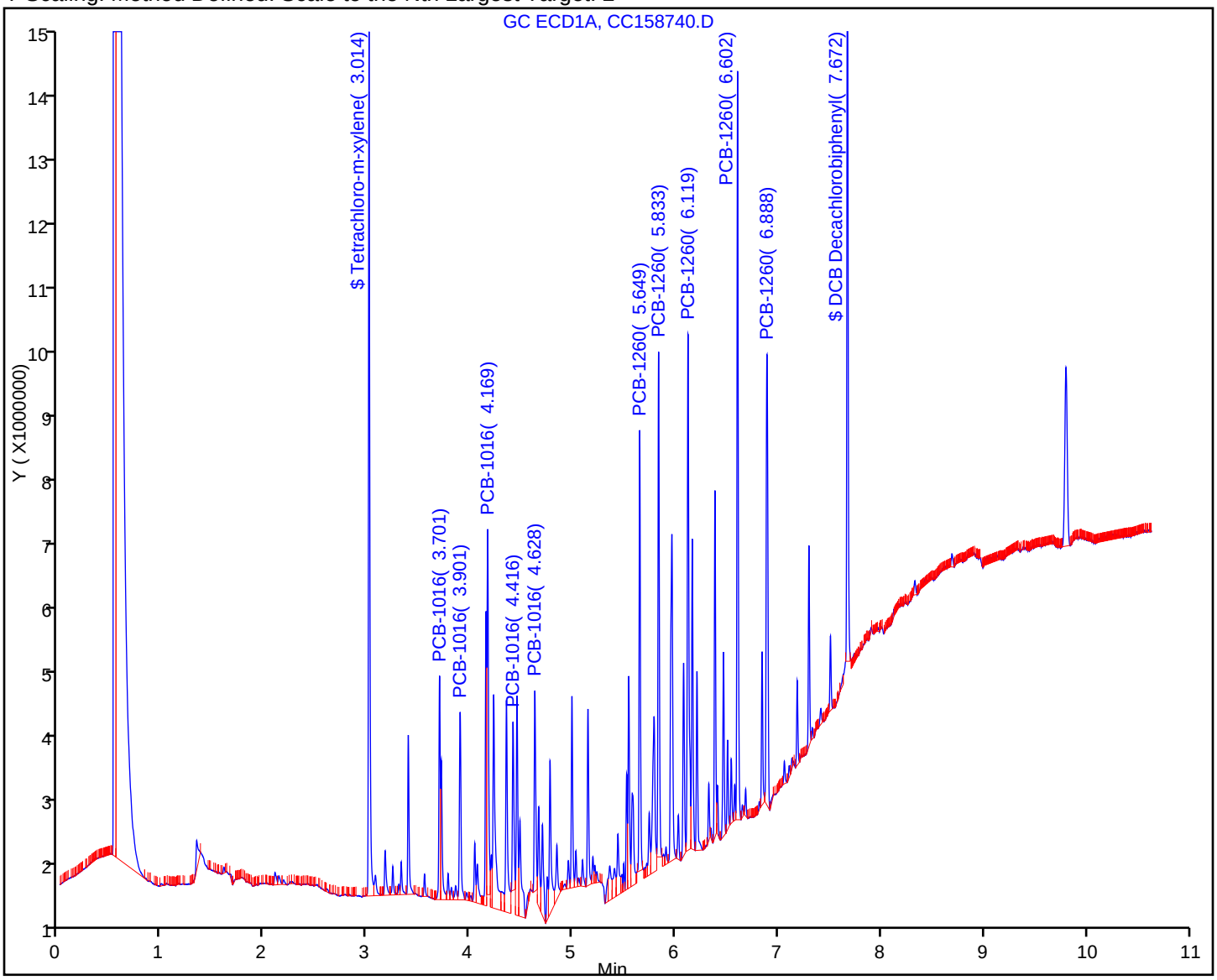
Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 10:10:57 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D

Injection Date:	16-Aug-2011 07:39:19	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	2
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



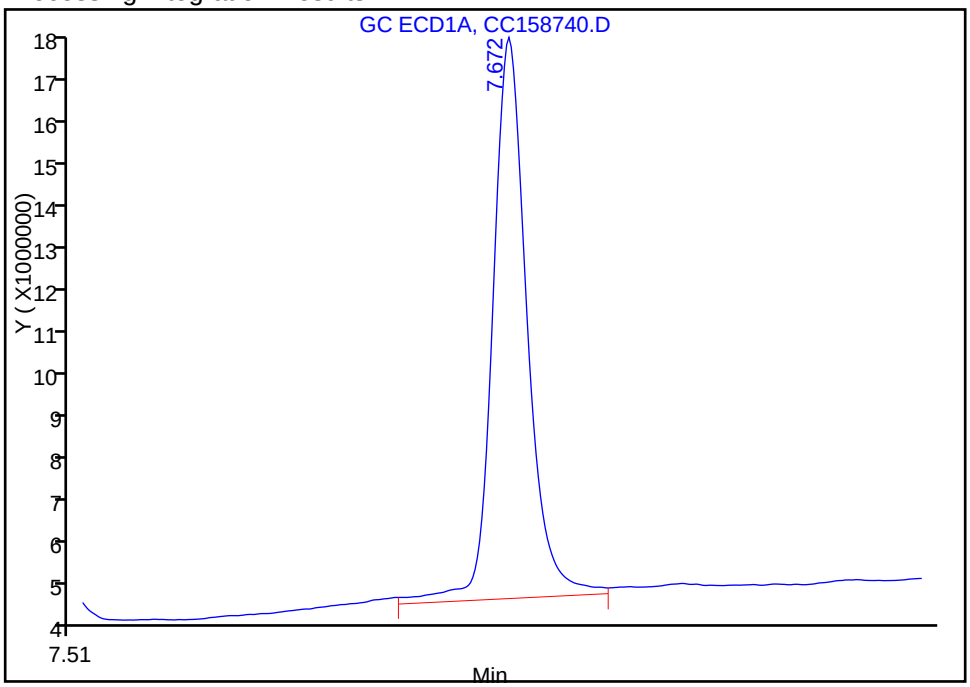
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D		
Injection Date:	16-Aug-2011 07:39:19	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	2
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 1, Type: quant, RT: 7.67, Det: GC ECD1A

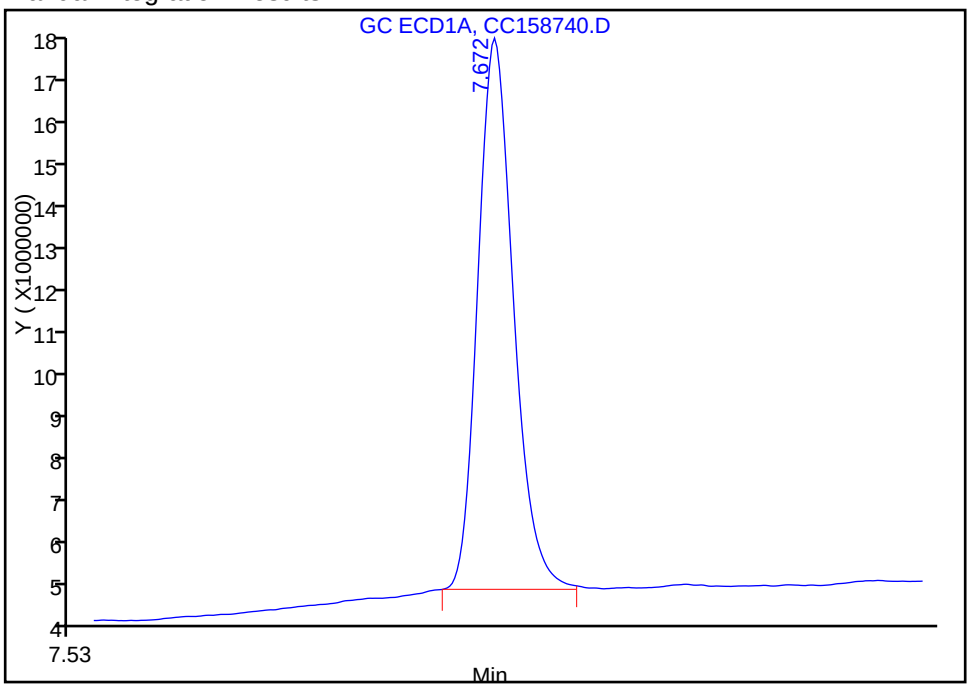
Processing Integration Results

RT: 7.67
Response: 10431422
Amount: 14.311072



Manual Integration Results

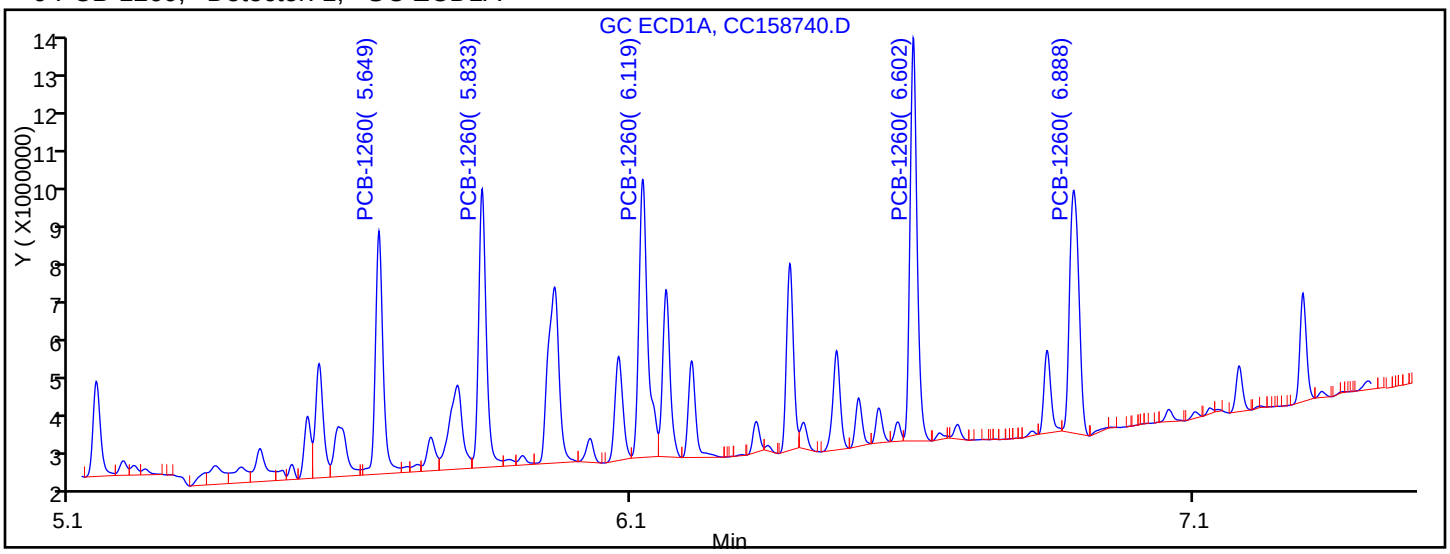
RT: 7.67
Response: 9568062
Amount: 13.078259



Reviewer: muirm, 16-Aug-2011 08:19:14
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

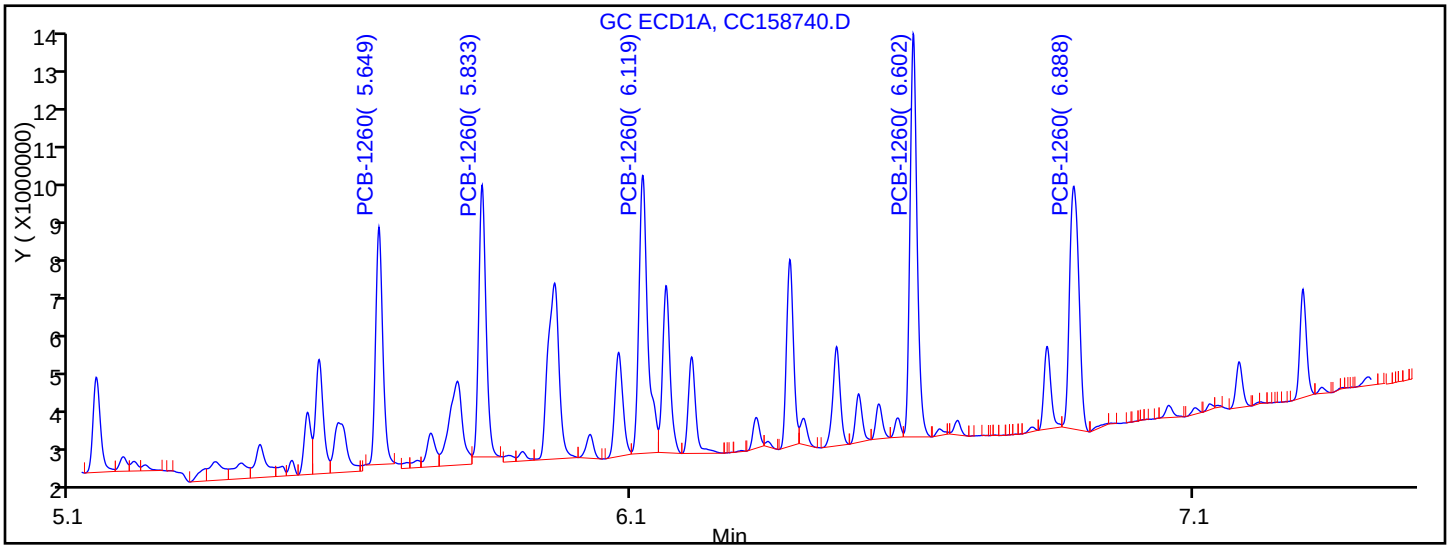
Report Date: 16-Aug-2011 10:10:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D
Injection Date: 16-Aug-2011 07:39:19 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 2
Operator ID: mam Injection Vol: 1.00 ul

9 PCB-1260, Detector: 1, GC ECD1A



Processing Integration Results

RT = 5.649	Response = 6102331	M
RT = 5.833	Response = 6948754	M
RT = 6.119	Response = 8014266	
RT = 6.602	Response = 9294913	
RT = 6.888	Response = 7399399	



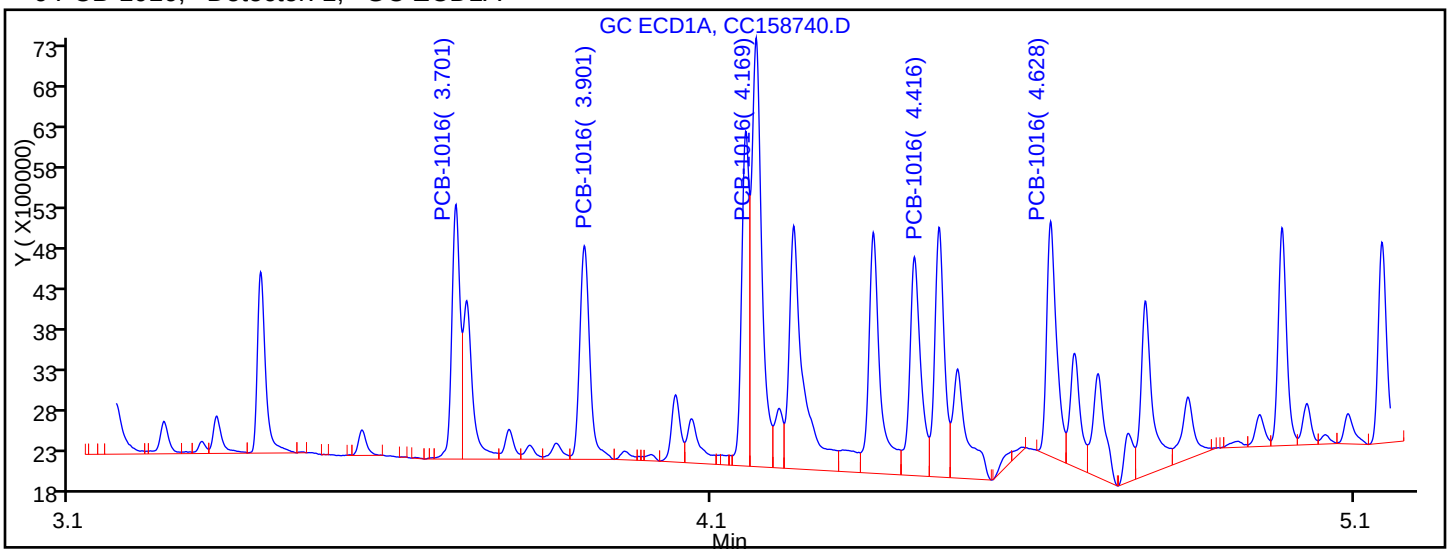
Manual Integration Results

RT = 5.649	Response = 5500599	M
RT = 5.833	Response = 6399328	M
RT = 6.119	Response = 8014266	
RT = 6.602	Response = 9294913	
RT = 6.888	Response = 7399399	

Reviewer: muirm, 16-Aug-2011 08:19:14
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

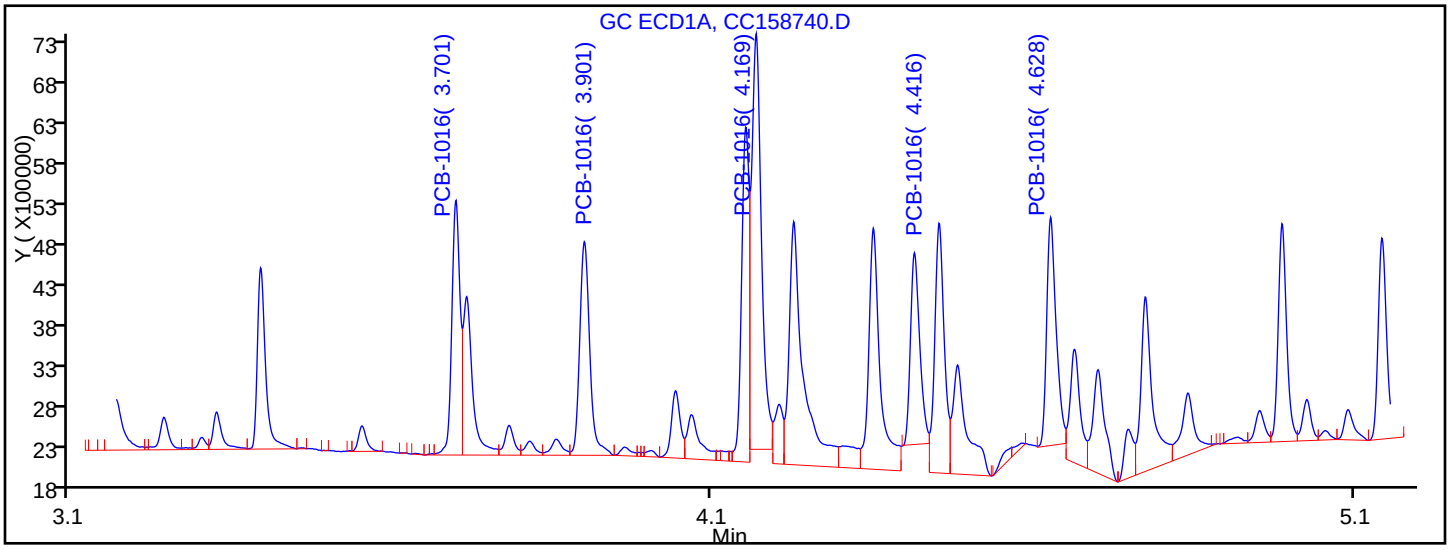
Report Date: 16-Aug-2011 10:10:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D
Injection Date: 16-Aug-2011 07:39:19 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 2
Operator ID: mam Injection Vol: 1.00 ul

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.701	Response = 2824808	
RT = 3.901	Response = 2908547	
RT = 4.169	Response = 5858602	M
RT = 4.416	Response = 3298164	M
RT = 4.628	Response = 3164268	M



Manual Integration Results

RT = 3.701	Response = 2824808	
RT = 3.901	Response = 2908547	
RT = 4.169	Response = 5478721	M
RT = 4.416	Response = 2403706	M
RT = 4.628	Response = 2915440	M

Reviewer: muirm, 16-Aug-2011 08:19:14
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-92903/2 Calibration Date: 08/16/2011 07:39

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158740.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	64080	69650		109	100	8.7	20.0
PCB-1016 Peak 2	Lin1		65949		110	100	9.7	20.0
PCB-1016 Peak 3	Ave	125788	146040		116	100	16.1	20.0
PCB-1016 Peak 4	Ave	46934	51410		110	100	9.5	20.0
PCB-1016 Peak 5	Ave	58141	64832		112	100	11.5	20.0
PCB-1260 Peak 1	Ave	114814	124631		109	100	8.5	20.0
PCB-1260 Peak 2	Lin1		190202		110	100	9.7	20.0
PCB-1260 Peak 3	Ave	165857	186192		112	100	12.3	20.0
PCB-1260 Peak 4	Ave	214975	242128		113	100	12.6	20.0
PCB-1260 Peak 5	Ave	129719	141495		109	100	9.1	20.0
Tetrachloro-m-xylene	Ave	2610963	2736104		10.5	10.0	4.8	20.0
DCB Decachlorobiphenyl	Ave	2035658	2179657		10.7	10.0	7.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-92903/2 Calibration Date: 08/16/2011 07:39

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158740.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.78	3.75	3.81
PCB-1016 Peak 2	3.97	3.94	4.00
PCB-1016 Peak 3	4.28	4.25	4.31
PCB-1016 Peak 4	4.54	4.51	4.57
PCB-1016 Peak 5	4.72	4.69	4.75
PCB-1260 Peak 1	5.77	5.74	5.80
PCB-1260 Peak 2	6.01	5.98	6.04
PCB-1260 Peak 3	6.23	6.20	6.26
PCB-1260 Peak 4	6.75	6.72	6.78
PCB-1260 Peak 5	6.97	6.94	7.00
Tetrachloro-m-xylene	3.11	3.08	3.14
DCB Decachlorobiphenyl	7.77	7.74	7.80

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D
Lims ID: ccvrt Client ID:
Inject. Date: 16-Aug-2011 07:39:19 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: ccvrt
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 92903 Lims Sample ID: 2
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 10:10:56 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 16-Aug-2011 10:10:56

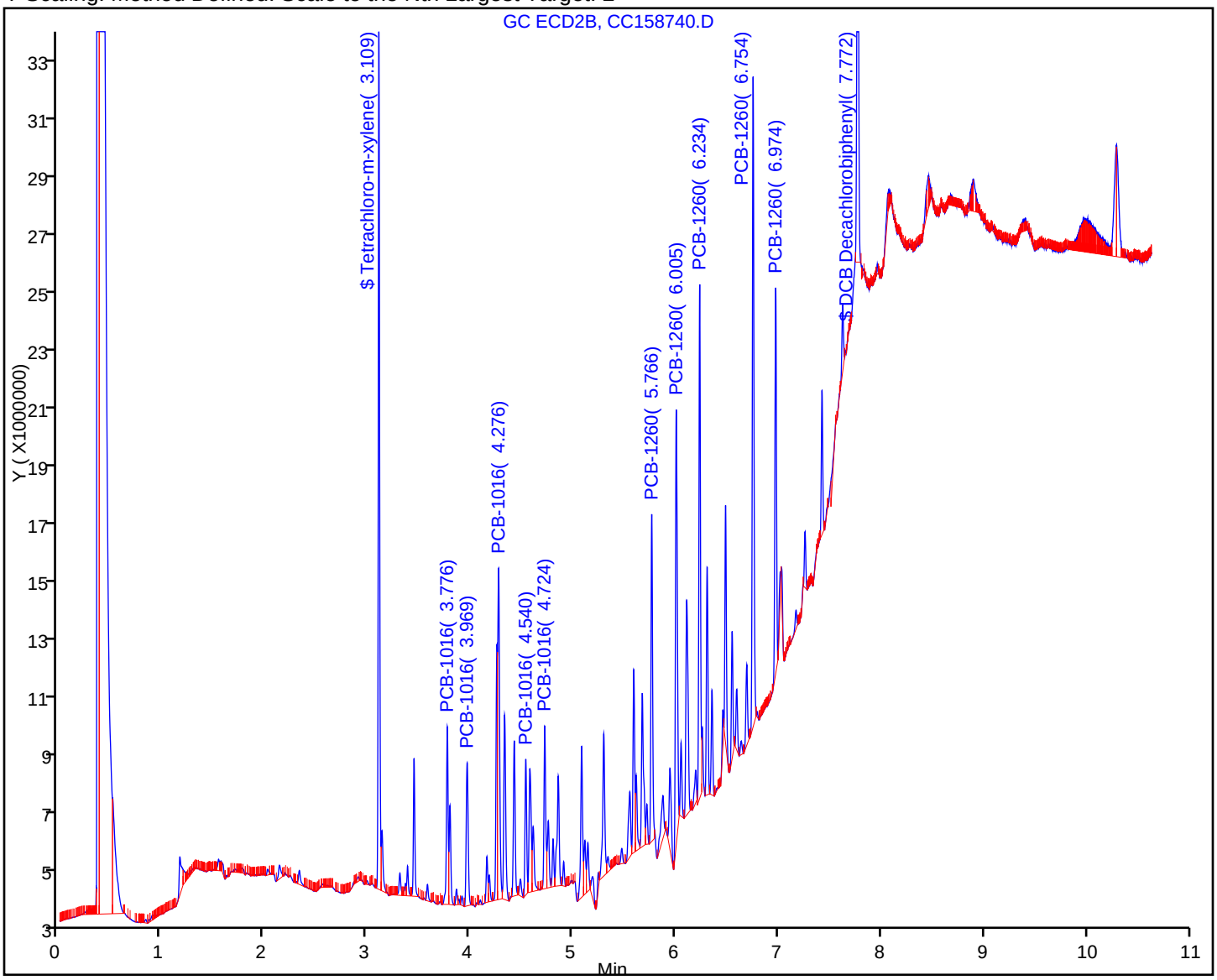
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.014	3.014	0.000	10898455	10.6			
2	2	3.109	3.109	0.000	27363499	10.5			
						RPD = 0.84			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.672	7.672	0.000	9568062	13.1			M
2	2	7.772	7.772	0.000	21796565	10.7			M
						RPD = 19.94			
6 PCB-1016									M
1	1	3.701	3.701	0.000	2824808	108.3		100.0	
1	2	3.901	3.901	0.000	2908547	111.9	73.0- 133.0	103.0	
1	3	4.169	4.169	0.000	5478721	116.9	164.0- 224.0	194.0	M
1	4	4.416	4.416	0.000	2403706	112.6	55.1- 115.1	85.1	M
1	5	4.628	4.628	0.000	2915440	109.0	73.2- 133.2	103.2	M
			Average of Peak Amounts =			111.8			
2	6	3.776	3.776	0.000	6965038	108.7		100.0	
2	7	3.969	3.969	0.000	6594902	109.7	64.7- 124.7	94.7	
2	8	4.276	4.276	0.000	14603972	116.1	179.7- 239.7	209.7	
2	9	4.540	4.540	0.000	5140994	109.5	43.8- 103.8	73.8	
2	10	4.724	4.724	0.000	6483162	111.5	63.1- 123.1	93.1	
			Average of Peak Amounts =			111.1			
						RPD = 0.59			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									M
1	1	5.649	5.649	0.000	5500599	106.1		100.0	M
1	2	5.833	5.833	0.000	6399328	111.1	86.3- 146.3	116.3	M
1	3	6.119	6.119	0.000	8014266	111.8	115.7- 175.7	145.7	
1	4	6.602	6.602	0.000	9294913	101.9	139.0- 199.0	169.0	
1	5	6.888	6.888	0.000	7399399	104.2	104.5- 164.5	134.5	
			Average of Peak Amounts =			107.0			
2	6	5.766	5.766	0.000	12463054	108.5		100.0	M
2	7	6.005	6.005	0.000	19020176	109.7	122.6- 182.6	152.6	
2	8	6.234	6.234	0.000	18619236	112.3	119.4- 179.4	149.4	M
2	9	6.754	6.754	0.000	24212764	112.6	164.3- 224.3	194.3	
2	10	6.974	6.974	0.000	14149455	109.1	83.5- 143.5	113.5	
			Average of Peak Amounts =			110.4			
						RPD = 3.16			
S 12 Polychlorinated biphenyls, Total									
1						218.8			
2						221.5			
						RPD = 1.26			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 10:10:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D
Injection Date: 16-Aug-2011 07:39:19 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 2
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



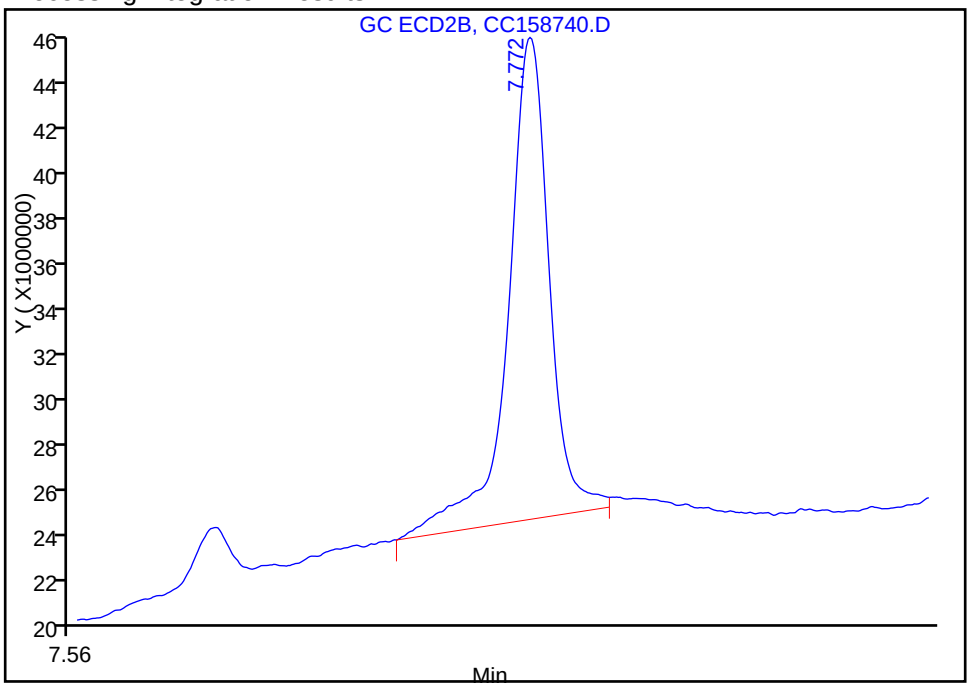
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D		
Injection Date:	16-Aug-2011 07:39:19	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	2
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

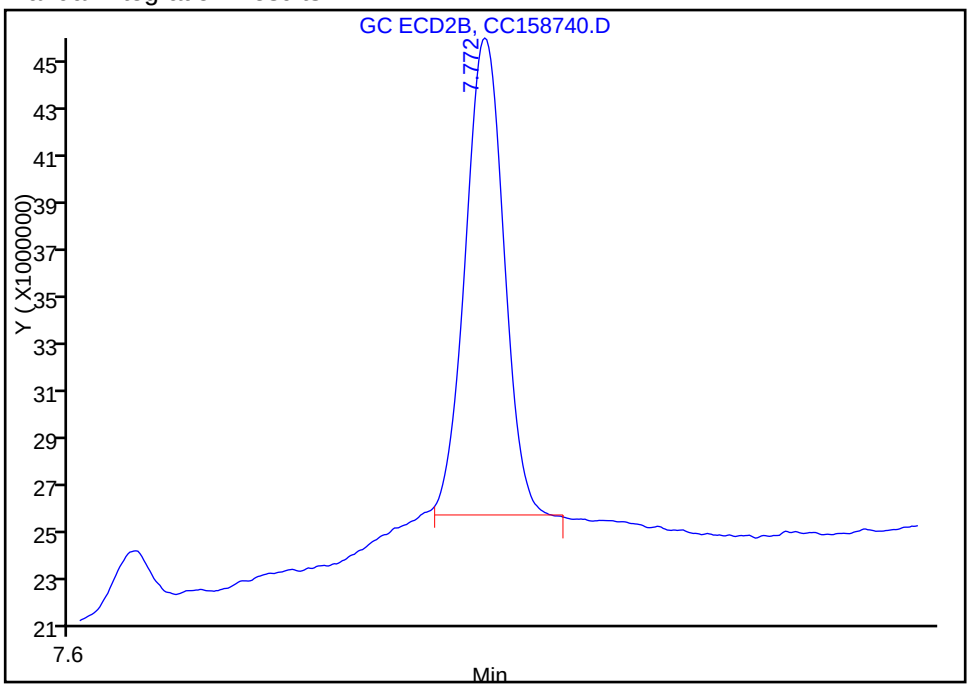
Processing Integration Results

RT: 7.77
Response: 27386758
Amount: 13.453513



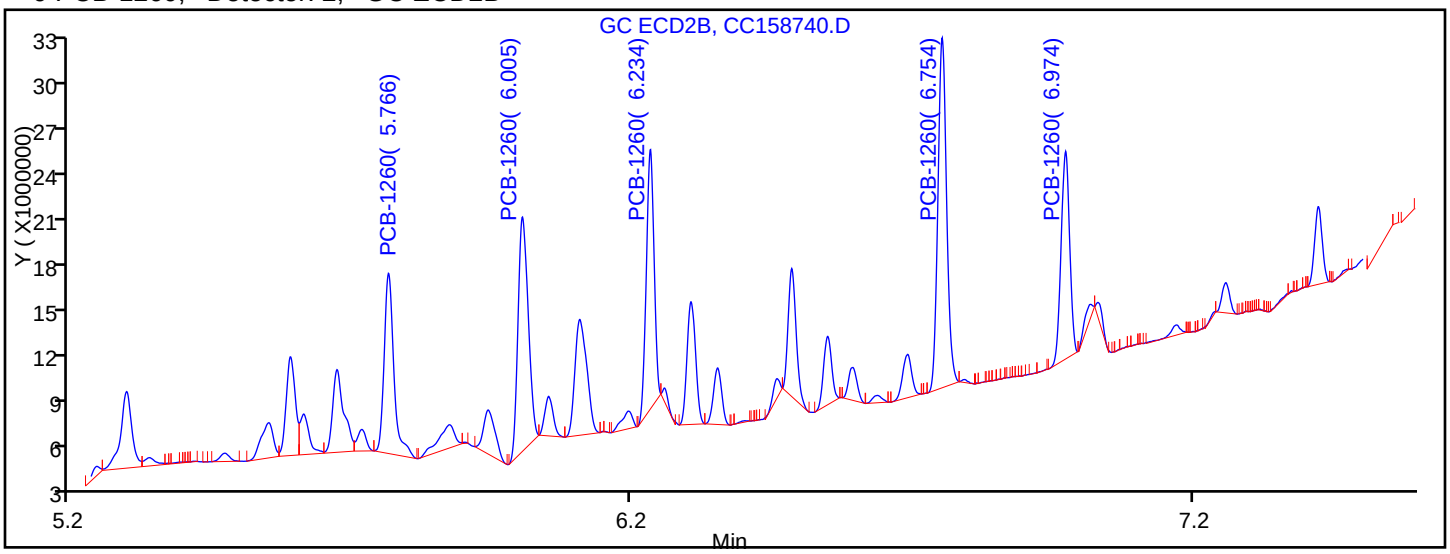
Manual Integration Results

RT: 7.77
Response: 21796565
Amount: 10.707378



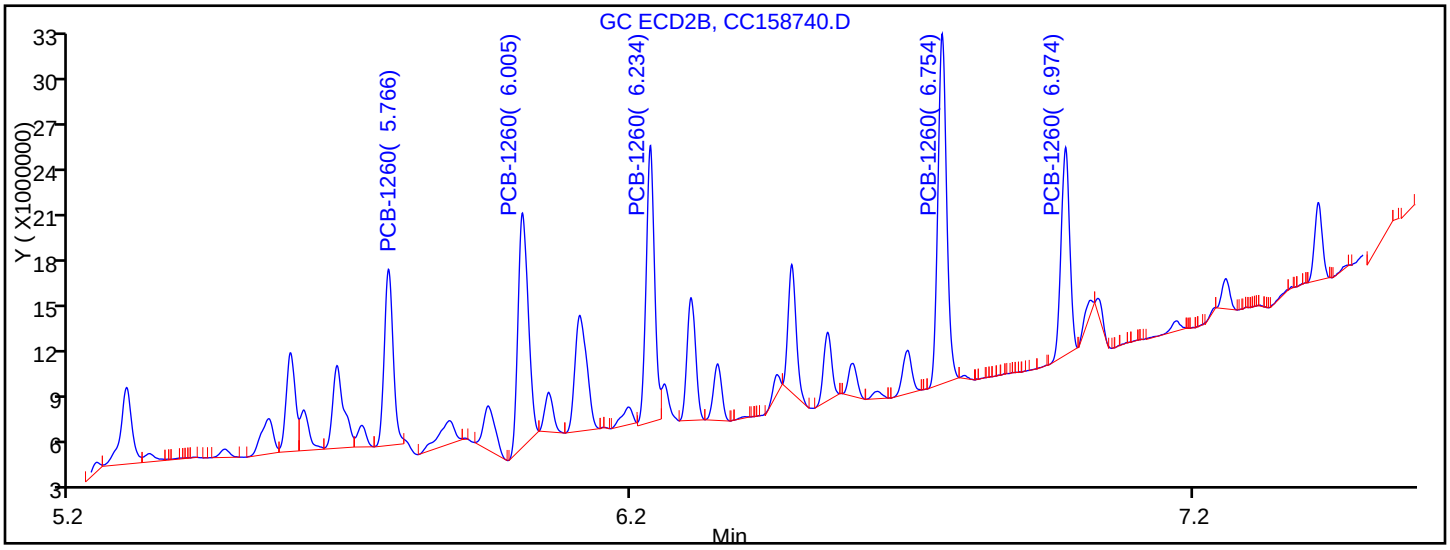
Reviewer: muirm, 16-Aug-2011 08:19:14
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Report Date: 16-Aug-2011 10:10:58 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158740.D
Injection Date: 16-Aug-2011 07:39:19 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 2
Operator ID: mam Injection Vol: 1.00 ul
9 PCB-1260, Detector: 2, GC ECD2B



Processing Integration Results

RT = 5.766	Response = 13868660	M
RT = 6.005	Response = 19020176	
RT = 6.234	Response = 15978930	M
RT = 6.754	Response = 24212764	
RT = 6.974	Response = 14149455	



Manual Integration Results

RT = 5.766	Response = 12463054	M
RT = 6.005	Response = 19020176	
RT = 6.234	Response = 18619236	M
RT = 6.754	Response = 24212764	
RT = 6.974	Response = 14149455	

Reviewer: muirm, 16-Aug-2011 08:19:14
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/3 Calibration Date: 08/16/2011 08:25

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158742.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	11478	12087		105	100	5.3	20.0
PCB-1221 Peak 2	Lin1		7822		110	100	9.8	20.0
PCB-1221 Peak 3	Ave	27581	28723		104	100	4.1	20.0
PCB-1254 Peak 1	Ave	50747	52941		104	100	4.3	20.0
PCB-1254 Peak 2	Ave	42865	45523		106	100	6.2	20.0
PCB-1254 Peak 3	Ave	60720	68361		113	100	12.6	20.0
PCB-1254 Peak 4	Ave	45745	40038		87.5	100	-12.5	20.0
PCB-1254 Peak 5	Ave	53054	62427		118	100	17.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/3 Calibration Date: 08/16/2011 08:25

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158742.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.25	3.22	3.28
PCB-1221 Peak 2	3.33	3.30	3.36
PCB-1221 Peak 3	3.40	3.37	3.43
PCB-1254 Peak 1	4.99	4.96	5.02
PCB-1254 Peak 2	5.15	5.12	5.18
PCB-1254 Peak 3	5.53	5.50	5.56
PCB-1254 Peak 4	5.75	5.72	5.78
PCB-1254 Peak 5	6.13	6.10	6.16

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Lims ID: ccv Client ID:
Inject. Date: 16-Aug-2011 08:25:24 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 3
Lims Batch ID: 92903 Lims Sample ID: 3
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 08:57:38 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

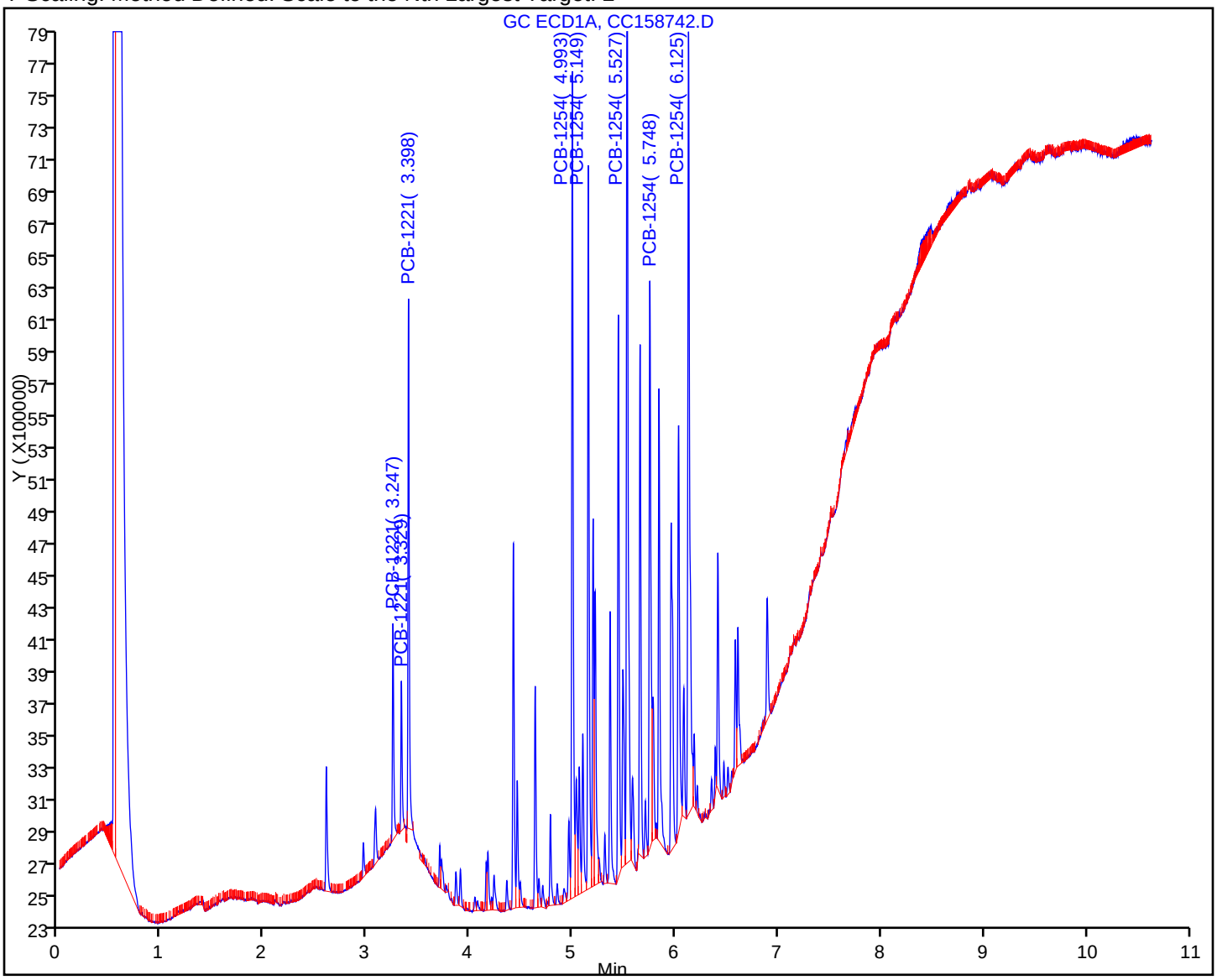
First Level Reviewer: muirm Date: 16-Aug-2011 08:57:38

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	1	3.247	3.245	0.002	1208741	105.3		100.0	
1	2	3.329	3.329	0.000	782170	109.8	34.7- 94.7	64.7	M
1	3	3.398	3.398	0.000	2872326	104.1	207.6- 267.6	237.6	M
			Average of Peak Amounts =			106.4			
2	4	3.313	3.313	0.000	2867323	95.3		100.0	M
2	5	3.386	3.386	0.000	1757660	96.6	31.3- 91.3	61.3	M
2	6	3.450	3.450	0.000	6714644	96.6	204.2- 264.2	234.2	M
			Average of Peak Amounts =			96.2			
						RPD = 10.13			
8 PCB-1254									M
1	1	4.993	4.994	-0.001	5294052	104.3		100.0	
1	2	5.149	5.150	-0.001	4552264	106.2	56.0- 116.0	86.0	
1	3	5.527	5.527	0.000	6836128	112.6	99.1- 159.1	129.1	
1	4	5.748	5.748	0.000	4003792	87.5	45.6- 105.6	75.6	
1	5	6.125	6.125	0.000	6242719	117.7	87.9- 147.9	117.9	
			Average of Peak Amounts =			105.7			
2	6	5.084	5.085	-0.001	9109622	105.3		100.0	
2	7	5.298	5.300	-0.002	12168527	95.9	103.6- 163.6	133.6	
2	8	5.616	5.618	-0.002	15243918	108.3	137.3- 197.3	167.3	
2	9	5.877	5.879	-0.002	11686237	104.7	98.3- 158.3	128.3	
2	10	6.233	6.233	0.000	12829004	106.4	110.8- 170.8	140.8	M
			Average of Peak Amounts =			104.1			
						RPD = 1.47			
S 12 Polychlorinated biphenyls, Total									
1						212.1			
2						200.3			
						RPD = 5.72			

QC Flag Legend

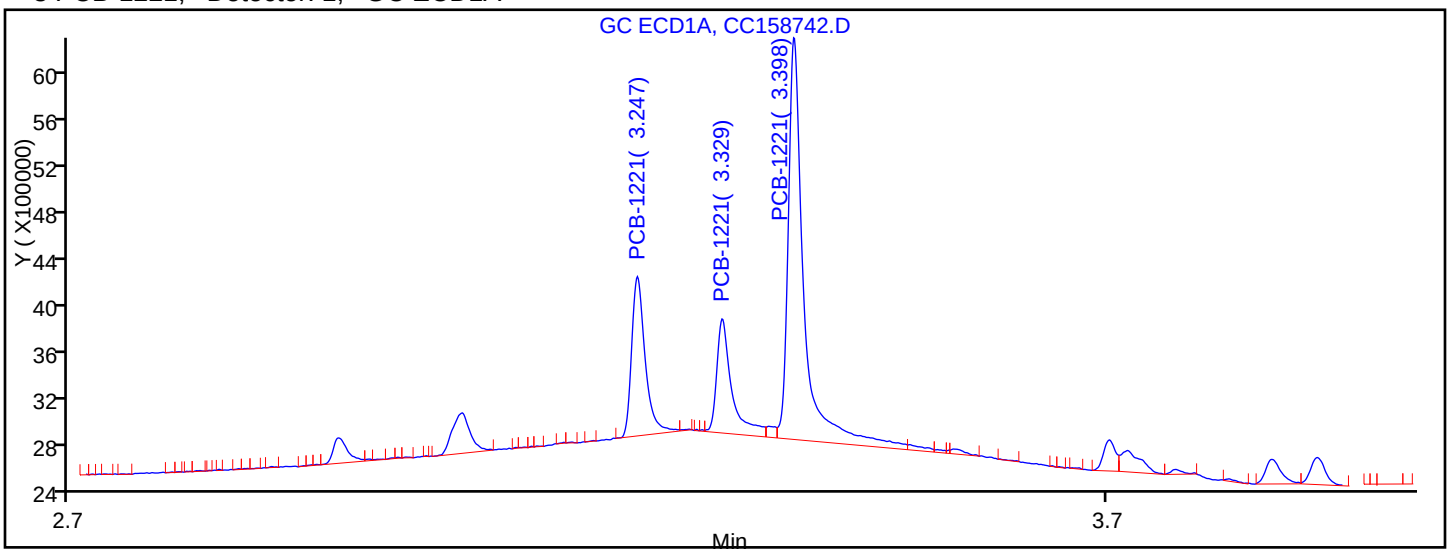
Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 08:57:39 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Injection Date: 16-Aug-2011 08:25:24 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 3
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



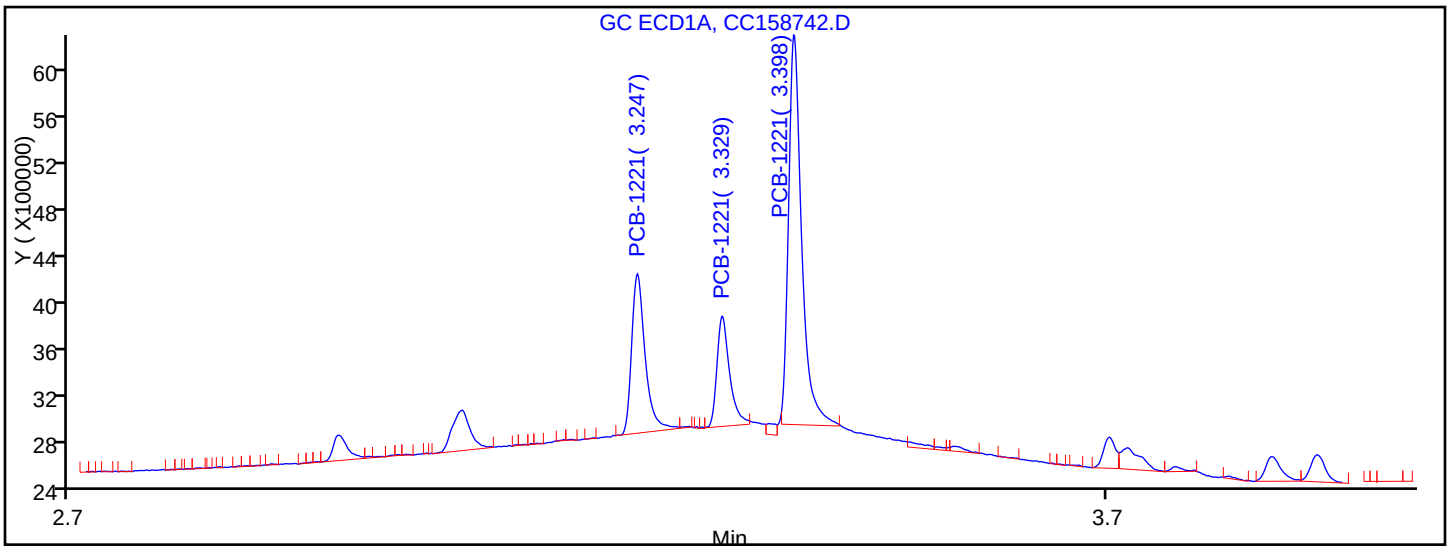
Report Date: 16-Aug-2011 08:57:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Injection Date: 16-Aug-2011 08:25:24 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 3
Operator ID: mam Injection Vol: 1.00 ul

3 PCB-1221, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.247	Response = 1208741	
RT = 3.329	Response = 967286	M
RT = 3.398	Response = 3549651	M



Manual Integration Results

RT = 3.247	Response = 1208741	
RT = 3.329	Response = 782170	M
RT = 3.398	Response = 2872326	M

Reviewer: muirm, 16-Aug-2011 08:57:38
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/3 Calibration Date: 08/16/2011 08:25

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158742.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	30095	28673		95.3	100	-4.7	20.0
PCB-1221 Peak 2	Ave	18196	17577		96.6	100	-3.4	20.0
PCB-1221 Peak 3	Ave	69495	67146		96.6	100	-3.4	20.0
PCB-1254 Peak 1	Ave	86471	91096		105	100	5.3	20.0
PCB-1254 Peak 2	Ave	126844	121685		95.9	100	-4.1	20.0
PCB-1254 Peak 3	Ave	140796	152439		108	100	8.3	20.0
PCB-1254 Peak 4	Ave	111640	116862		105	100	4.7	20.0
PCB-1254 Peak 5	Ave	120602	128290		106	100	6.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/3 Calibration Date: 08/16/2011 08:25

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158742.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.31	3.28	3.34
PCB-1221 Peak 2	3.39	3.36	3.42
PCB-1221 Peak 3	3.45	3.42	3.48
PCB-1254 Peak 1	5.08	5.06	5.12
PCB-1254 Peak 2	5.30	5.27	5.33
PCB-1254 Peak 3	5.62	5.59	5.65
PCB-1254 Peak 4	5.88	5.85	5.91
PCB-1254 Peak 5	6.23	6.20	6.26

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Lims ID: ccv Client ID:
Inject. Date: 16-Aug-2011 08:25:24 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 3
Lims Batch ID: 92903 Lims Sample ID: 3
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 08:57:38 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

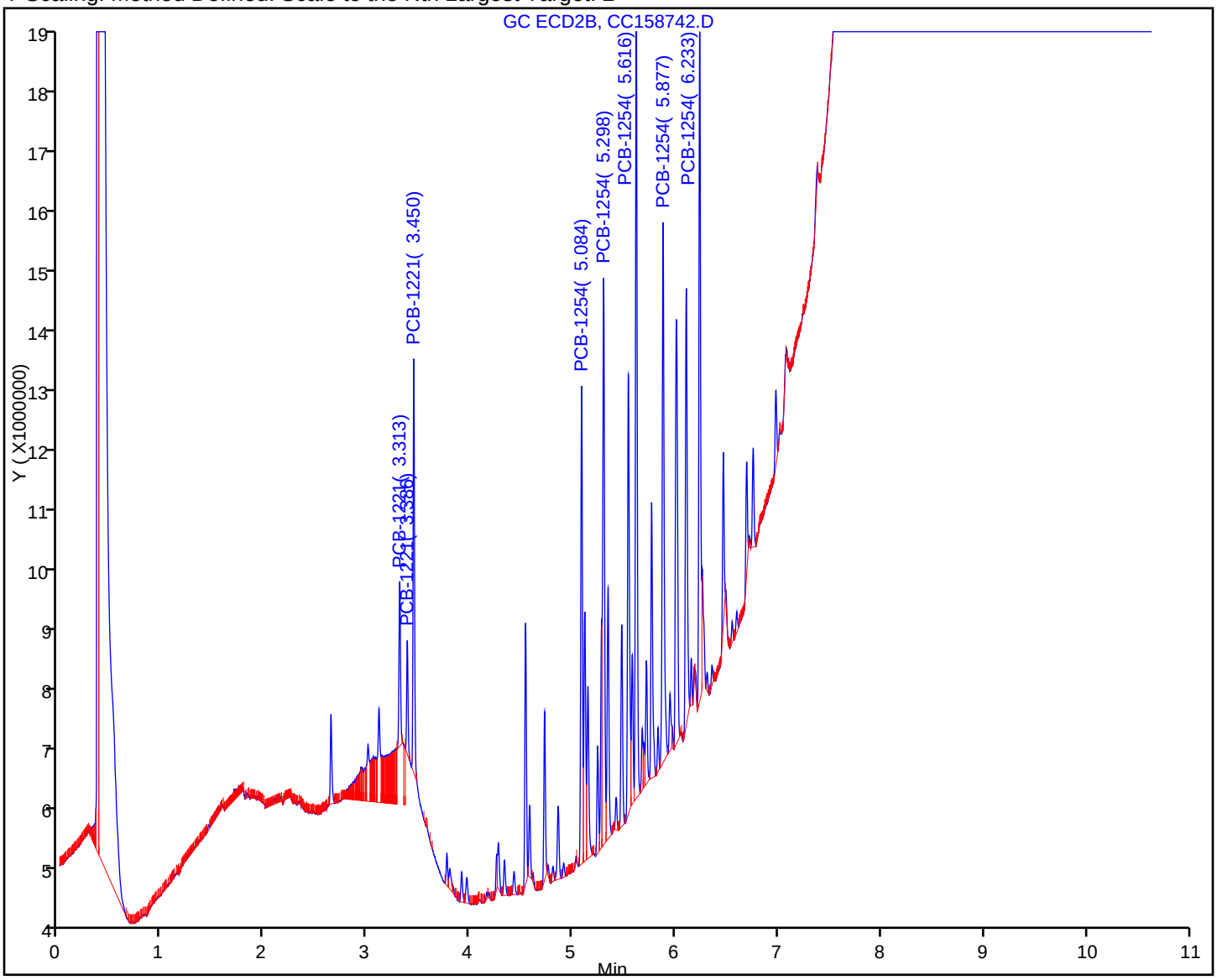
First Level Reviewer: muirm Date: 16-Aug-2011 08:57:38

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									M
1	1	3.247	3.245	0.002	1208741	105.3		100.0	
1	2	3.329	3.329	0.000	782170	109.8	34.7- 94.7	64.7	M
1	3	3.398	3.398	0.000	2872326	104.1	207.6- 267.6	237.6	M
			Average of Peak Amounts =			106.4			
2	4	3.313	3.313	0.000	2867323	95.3		100.0	M
2	5	3.386	3.386	0.000	1757660	96.6	31.3- 91.3	61.3	M
2	6	3.450	3.450	0.000	6714644	96.6	204.2- 264.2	234.2	M
			Average of Peak Amounts =			96.2			
						RPD = 10.13			
8 PCB-1254									M
1	1	4.993	4.994	-0.001	5294052	104.3		100.0	
1	2	5.149	5.150	-0.001	4552264	106.2	56.0- 116.0	86.0	
1	3	5.527	5.527	0.000	6836128	112.6	99.1- 159.1	129.1	
1	4	5.748	5.748	0.000	4003792	87.5	45.6- 105.6	75.6	
1	5	6.125	6.125	0.000	6242719	117.7	87.9- 147.9	117.9	
			Average of Peak Amounts =			105.7			
2	6	5.084	5.085	-0.001	9109622	105.3		100.0	
2	7	5.298	5.300	-0.002	12168527	95.9	103.6- 163.6	133.6	
2	8	5.616	5.618	-0.002	15243918	108.3	137.3- 197.3	167.3	
2	9	5.877	5.879	-0.002	11686237	104.7	98.3- 158.3	128.3	
2	10	6.233	6.233	0.000	12829004	106.4	110.8- 170.8	140.8	M
			Average of Peak Amounts =			104.1			
						RPD = 1.47			
S 12 Polychlorinated biphenyls, Total									
1						212.1			
2						200.3			
						RPD = 5.72			

QC Flag Legend

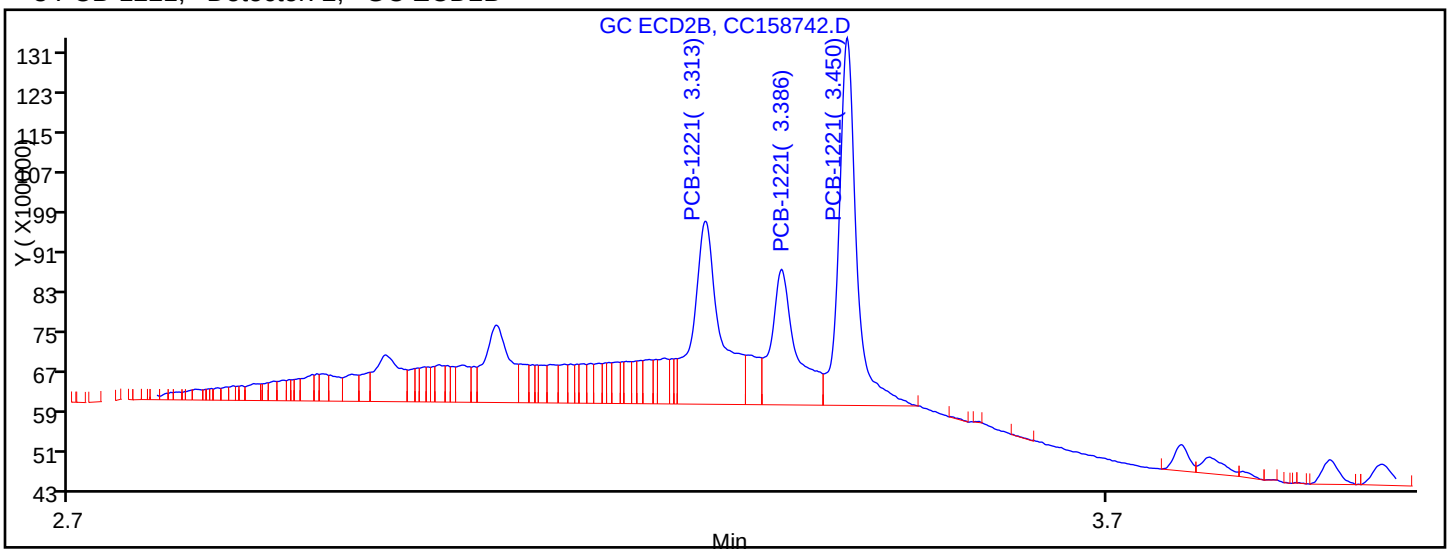
Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 08:57:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Injection Date: 16-Aug-2011 08:25:24 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 3
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



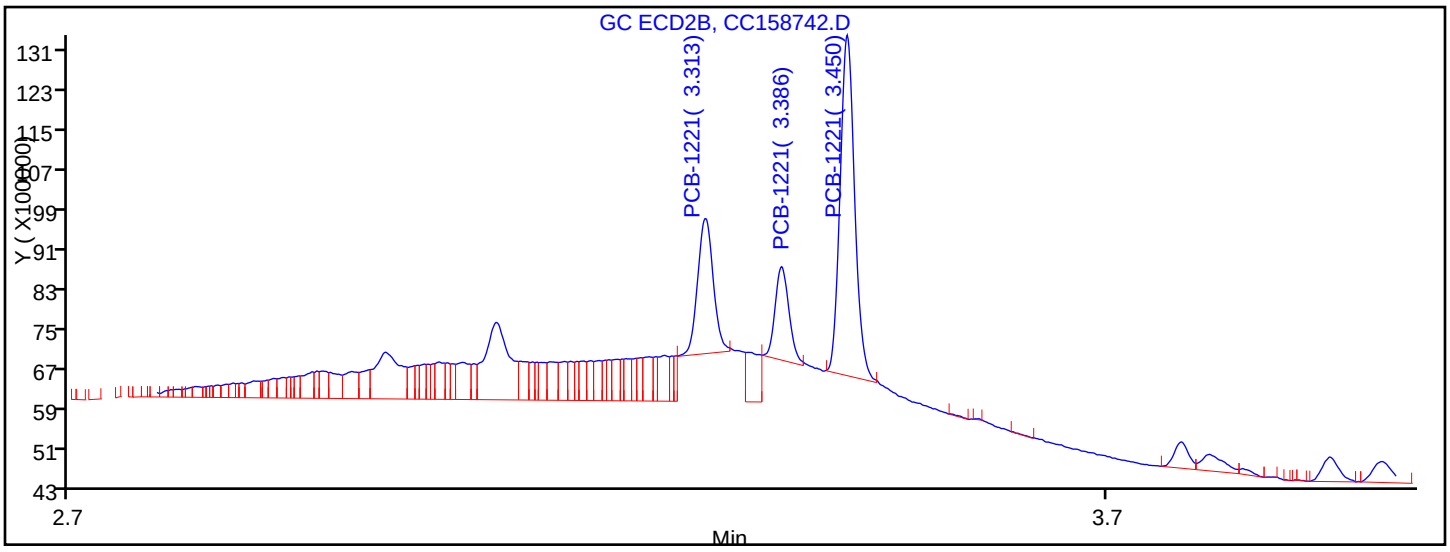
Report Date: 16-Aug-2011 08:57:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Injection Date: 16-Aug-2011 08:25:24 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 3
Operator ID: mam Injection Vol: 1.00 ul

3 PCB-1221, Detector: 2, GC ECD2B



Processing Integration Results

RT =	3.313	Response = 6718518	M
RT =	3.386	Response = 4594184	M
RT =	3.450	Response = 8805027	M



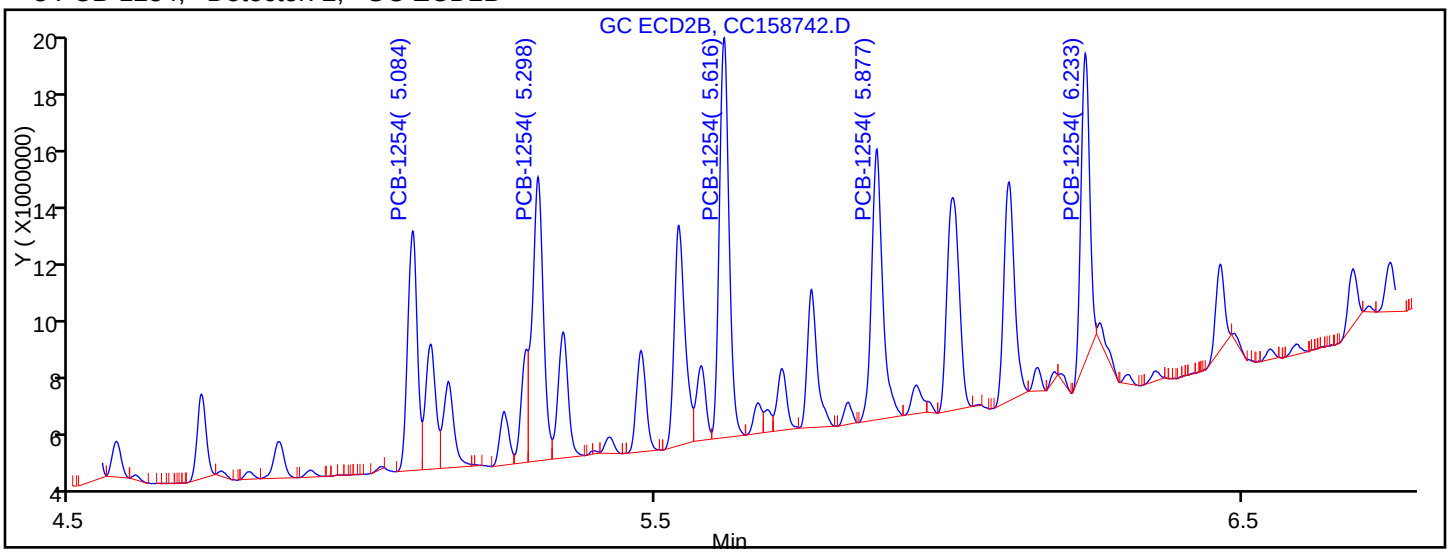
Manual Integration Results

RT =	3.313	Response = 2867323	M
RT =	3.386	Response = 1757660	M
RT =	3.450	Response = 6714644	M

Reviewer: muirm, 16-Aug-2011 08:57:38
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

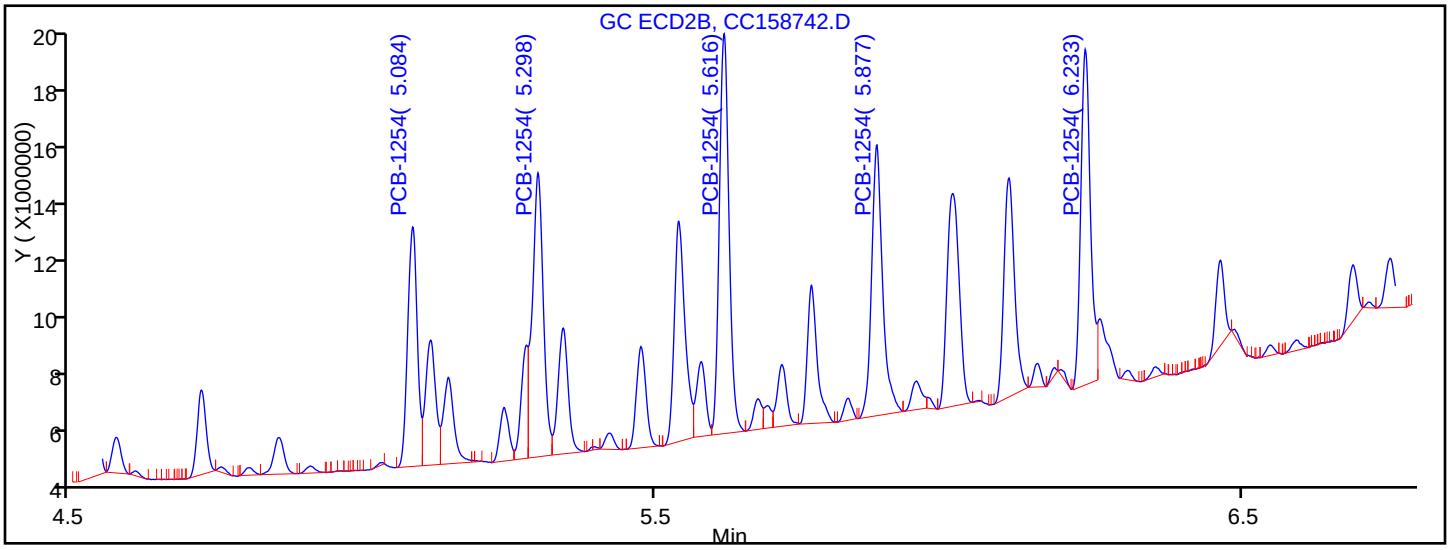
Report Date: 16-Aug-2011 08:57:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158742.D
Injection Date: 16-Aug-2011 08:25:24 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 3
Operator ID: mam Injection Vol: 1.00 ul

8 PCB-1254, Detector: 2, GC ECD2B



Processing Integration Results

RT = 5.084 Response = 9109622
RT = 5.298 Response = 12168527
RT = 5.616 Response = 15243918
RT = 5.877 Response = 11686237
RT = 6.233 Response = 10467202 M



Manual Integration Results

RT = 5.084 Response = 9109622
RT = 5.298 Response = 12168527
RT = 5.616 Response = 15243918
RT = 5.877 Response = 11686237
RT = 6.233 Response = 12829004 M

Reviewer: muirm, 16-Aug-2011 08:57:38
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/11 Calibration Date: 08/16/2011 14:09

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158662.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	26078	28702		110	100	10.1	20.0
PCB-1016 Peak 2	Ave	25989	29767		115	100	14.5	20.0
PCB-1016 Peak 3	Ave	46857	56444		121	100	20.5*	20.0
PCB-1016 Peak 4	Lin1		24432		115	100	14.6	20.0
PCB-1016 Peak 5	Ave	26749	28912		108	100	8.1	20.0
PCB-1260 Peak 1	Ave	51857	55074		106	100	6.2	20.0
PCB-1260 Peak 2	Lin1		64773		112	100	12.4	20.0
PCB-1260 Peak 3	Lin1		78960		110	100	10.1	20.0
PCB-1260 Peak 4	Ave	91214	92473		101	100	1.4	20.0
PCB-1260 Peak 5	Ave	71029	71574		101	100	0.8	20.0
Tetrachloro-m-xylene	Ave	1031214	1143663		11.1	10.0	10.9	20.0
DCB Decachlorobiphenyl	Lin1		1017488		13.9	10.0	39.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/11 Calibration Date: 08/16/2011 14:09

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158662.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.70	3.67	3.73
PCB-1016 Peak 2	3.90	3.87	3.93
PCB-1016 Peak 3	4.17	4.14	4.20
PCB-1016 Peak 4	4.42	4.39	4.45
PCB-1016 Peak 5	4.63	4.60	4.66
PCB-1260 Peak 1	5.65	5.62	5.68
PCB-1260 Peak 2	5.83	5.80	5.86
PCB-1260 Peak 3	6.12	6.09	6.15
PCB-1260 Peak 4	6.60	6.57	6.63
PCB-1260 Peak 5	6.89	6.86	6.92
Tetrachloro-m-xylene	3.02	2.98	3.04
DCB Decachlorobiphenyl	7.67	7.64	7.70

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D
Lims ID: CCV Client ID:
Inject. Date: 16-Aug-2011 14:09:47 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 92903 Lims Sample ID: 11
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 14:40:28 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 16-Aug-2011 14:40:28

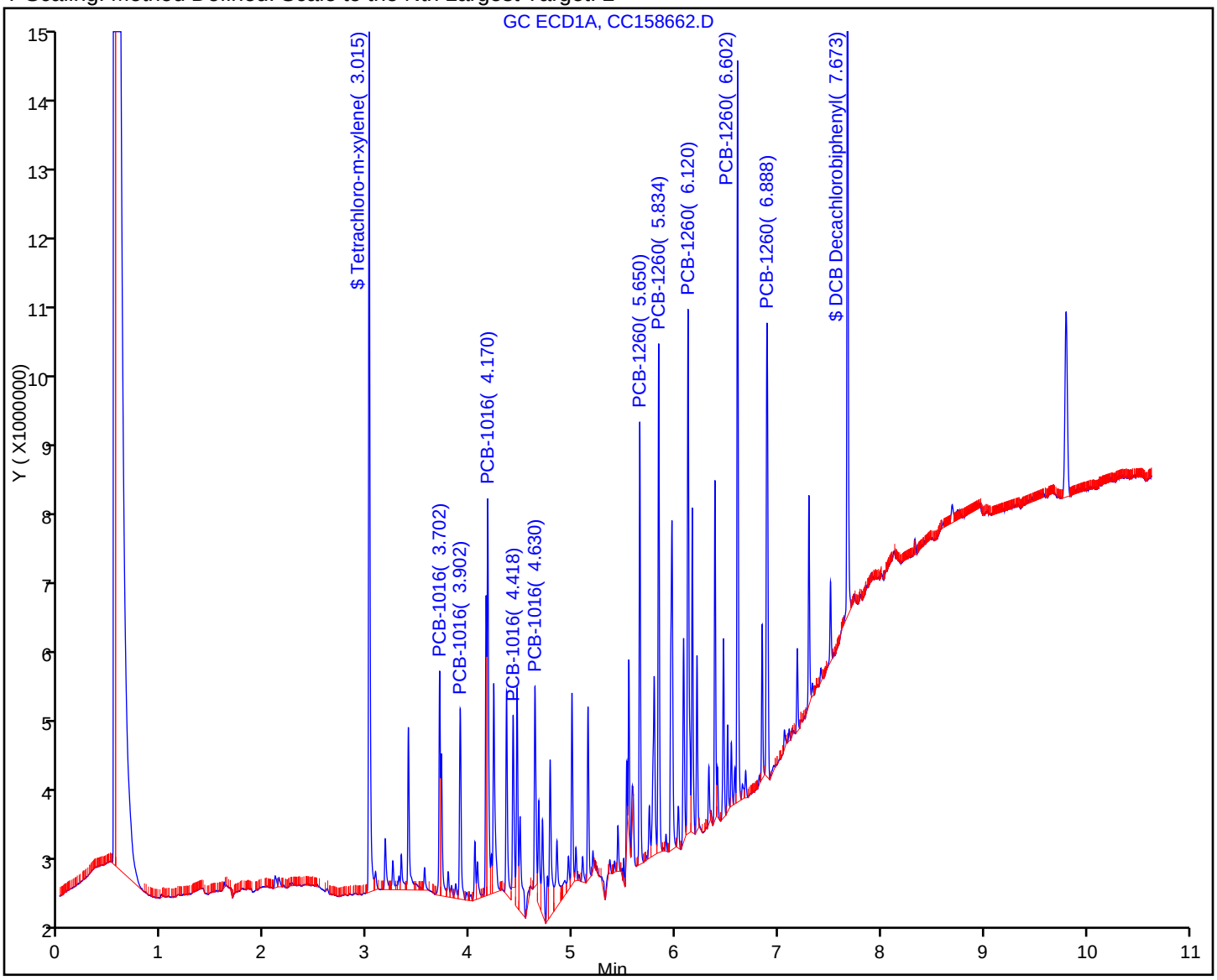
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.015	3.014	0.001	11437656	11.1			
2	2	3.112	3.109	0.003	28472979	10.9			
						RPD = 1.69			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.673	7.672	0.001	10174882	13.9			
2	2	7.774	7.774	0.000	22673827	11.1			M
						RPD = 22.38			
6 PCB-1016									M
1	1	3.702	3.701	0.001	2870204	110.1		100.0	
1	2	3.902	3.901	0.001	2976700	114.5	73.7- 133.7	103.7	
1	3	4.170	4.169	0.001	5644394	120.5	166.7- 226.7	196.7	
1	4	4.418	4.418	0.000	2443191	114.6	55.1- 115.1	85.1	M
1	5	4.630	4.630	0.000	2891191	108.1	70.7- 130.7	100.7	M
			Average of Peak Amounts =			113.5			
2	6	3.778	3.776	0.002	7363133	114.9		100.0	
2	7	3.972	3.969	0.003	6876866	114.6	63.4- 123.4	93.4	
2	8	4.278	4.276	0.002	13971045	111.1	159.7- 219.7	189.7	
2	9	4.543	4.543	0.000	5379319	114.6	43.1- 103.1	73.1	M
2	10	4.727	4.727	0.000	6226295	107.1	54.6- 114.6	84.6	M
			Average of Peak Amounts =			112.5			
						RPD = 0.97			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									M
1	1	5.650	5.649	0.001	5507442	106.2		100.0	
1	2	5.834	5.833	0.001	6477309	112.4	87.6- 147.6	117.6	
1	3	6.120	6.119	0.001	7895984	110.1	113.4- 173.4	143.4	
1	4	6.602	6.602	0.000	9247323	101.4	137.9- 197.9	167.9	
1	5	6.888	6.888	0.000	7157361	100.8	100.0- 160.0	130.0	
			Average of Peak Amounts =			106.2			
2	6	5.769	5.766	0.003	13977796	121.7		100.0	
2	7	6.007	6.005	0.002	19259729	111.1	107.8- 167.8	137.8	
2	8	6.234	6.234	0.000	18872679	113.8	105.0- 165.0	135.0	M
2	9	6.755	6.754	0.001	24595760	114.4	146.0- 206.0	176.0	
2	10	6.975	6.974	0.001	14453467	111.4	73.4- 133.4	103.4	
			Average of Peak Amounts =			114.5			
						RPD = 7.53			
S 12 Polychlorinated biphenyls, Total									
1						219.7			
2						226.9			
						RPD = 3.23			

QC Flag Legend

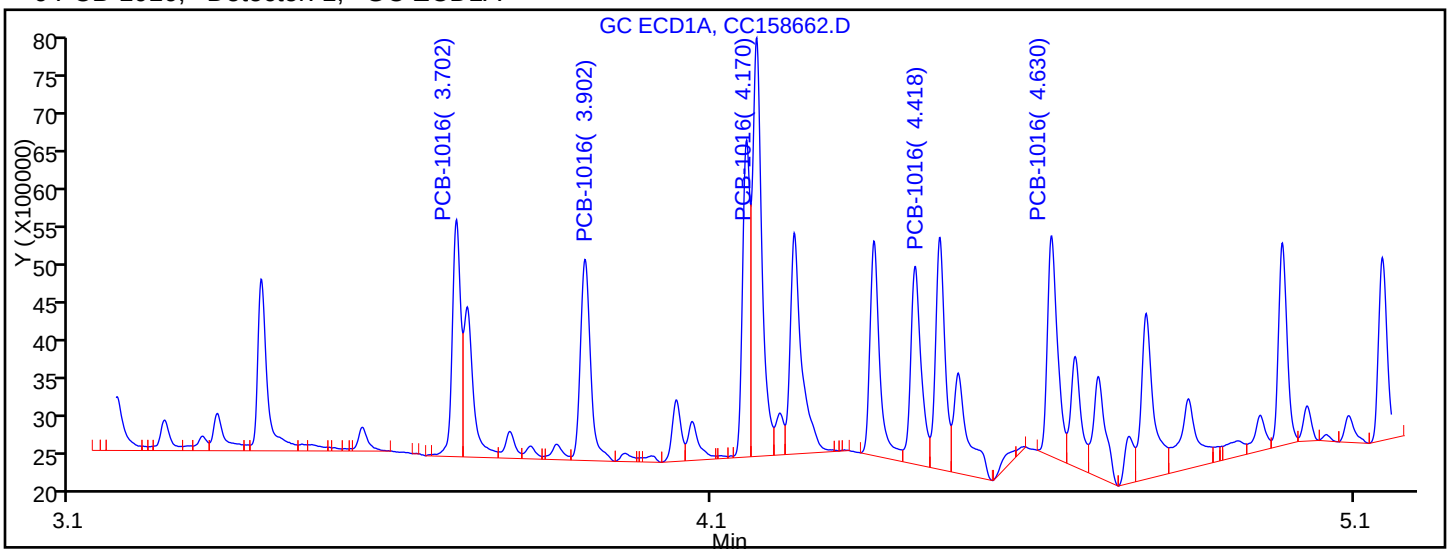
Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 14:40:28 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D
Injection Date: 16-Aug-2011 14:09:47 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 11
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



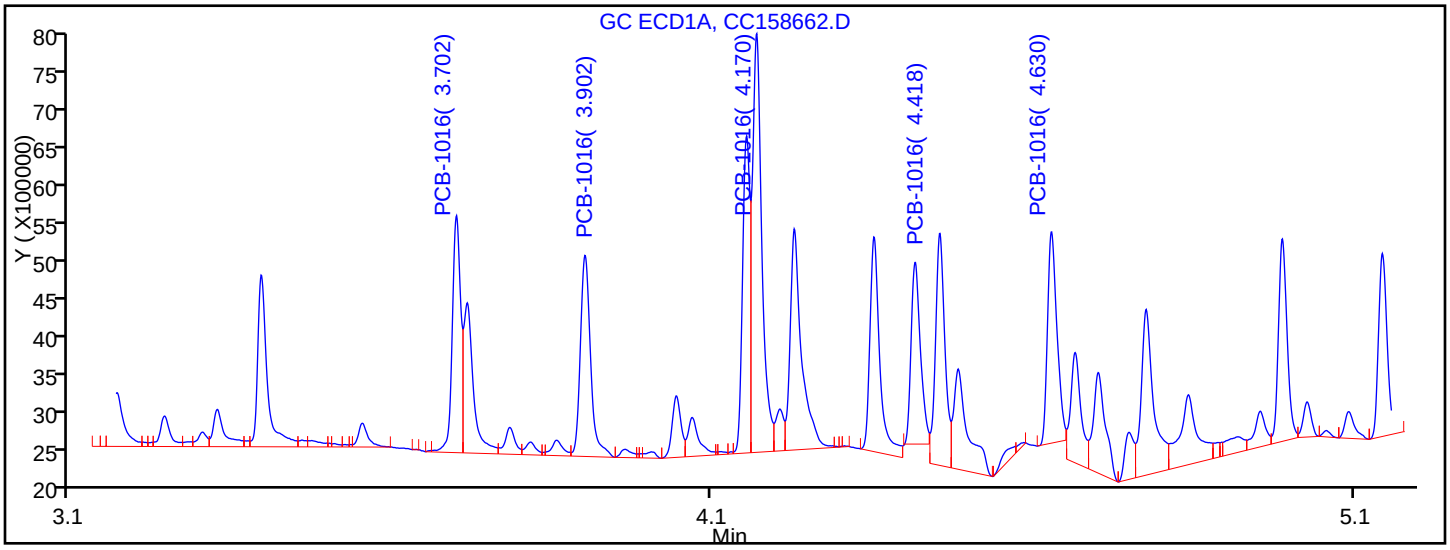
Report Date: 16-Aug-2011 14:40:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06
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Injection Date: 16-Aug-2011 14:09:47 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 11
Operator ID: mam Injection Vol: 1.00 ul

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.702	Response = 2870204	
RT = 3.902	Response = 2976700	
RT = 4.170	Response = 5644394	
RT = 4.418	Response = 3002217	M
RT = 4.630	Response = 3247301	M



Manual Integration Results

RT = 3.702	Response = 2870204	
RT = 3.902	Response = 2976700	
RT = 4.170	Response = 5644394	
RT = 4.418	Response = 2443191	M
RT = 4.630	Response = 2891191	M

Reviewer: muirm, 16-Aug-2011 14:40:28
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/11 Calibration Date: 08/16/2011 14:09

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158662.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	64080	73631		115	100	14.9	20.0
PCB-1016 Peak 2	Lin1		68769		115	100	14.6	20.0
PCB-1016 Peak 3	Ave	125788	139710		111	100	11.1	20.0
PCB-1016 Peak 4	Ave	46934	53793		115	100	14.6	20.0
PCB-1016 Peak 5	Ave	58141	62263		107	100	7.1	20.0
PCB-1260 Peak 1	Ave	114814	139778		122	100	21.7*	20.0
PCB-1260 Peak 2	Lin1		192597		111	100	11.1	20.0
PCB-1260 Peak 3	Ave	165857	188727		114	100	13.8	20.0
PCB-1260 Peak 4	Ave	214975	245958		114	100	14.4	20.0
PCB-1260 Peak 5	Ave	129719	144535		111	100	11.4	20.0
Tetrachloro-m-xylene	Ave	2610963	2847042		10.9	10.0	9.0	20.0
DCB Decachlorobiphenyl	Ave	2035658	2267383		11.1	10.0	11.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/11 Calibration Date: 08/16/2011 14:09

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158662.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.78	3.75	3.81
PCB-1016 Peak 2	3.97	3.94	4.00
PCB-1016 Peak 3	4.28	4.25	4.31
PCB-1016 Peak 4	4.54	4.51	4.57
PCB-1016 Peak 5	4.73	4.70	4.76
PCB-1260 Peak 1	5.77	5.74	5.80
PCB-1260 Peak 2	6.01	5.98	6.04
PCB-1260 Peak 3	6.23	6.20	6.26
PCB-1260 Peak 4	6.76	6.72	6.78
PCB-1260 Peak 5	6.98	6.94	7.00
Tetrachloro-m-xylene	3.11	3.08	3.14
DCB Decachlorobiphenyl	7.77	7.74	7.80

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D
Lims ID: CCV Client ID:
Inject. Date: 16-Aug-2011 14:09:47 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 92903 Lims Sample ID: 11
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 14:40:28 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 16-Aug-2011 14:40:28

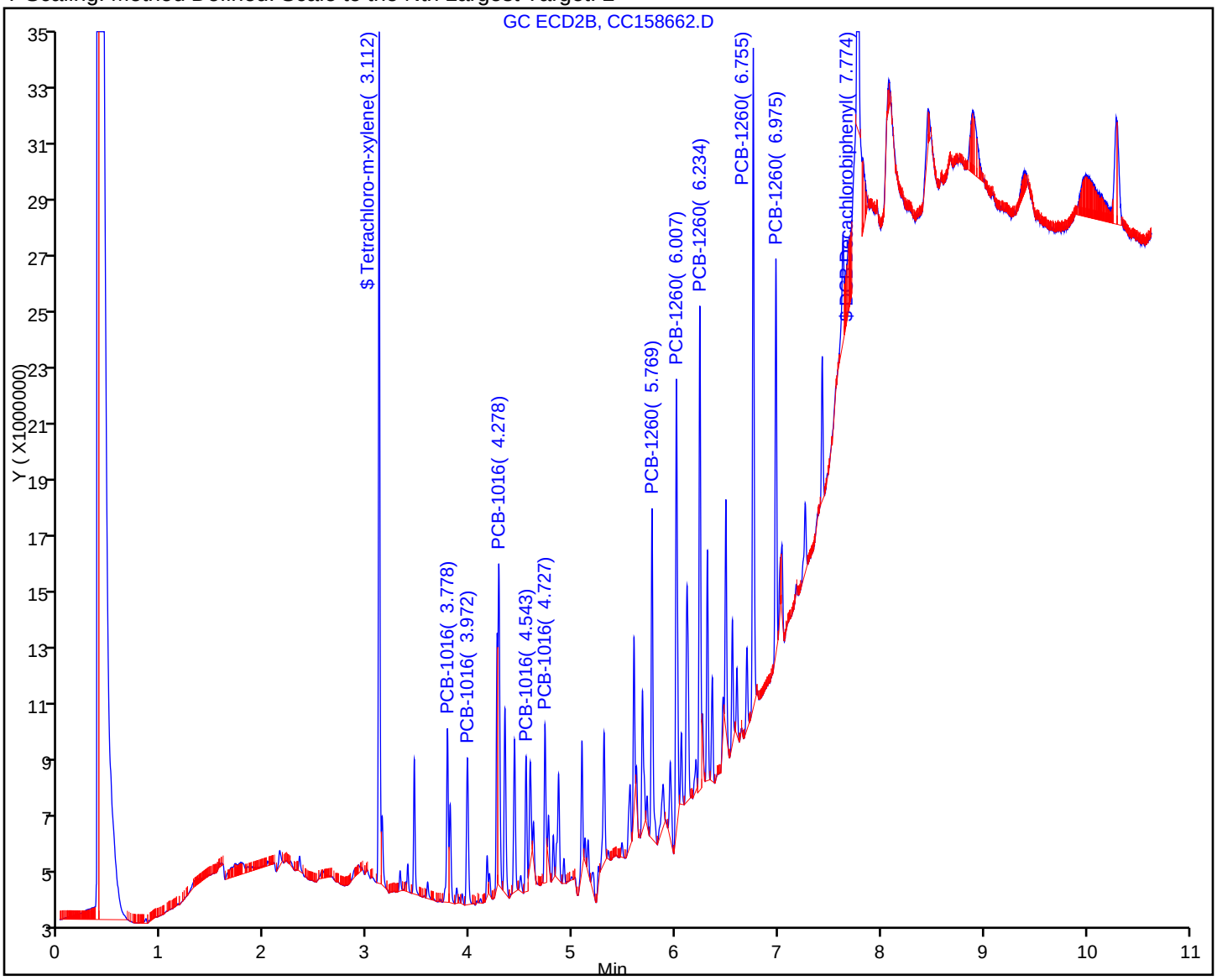
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.015	3.014	0.001	11437656	11.1			
2	2	3.112	3.109	0.003	28472979	10.9			
						RPD = 1.69			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.673	7.672	0.001	10174882	13.9			
2	2	7.774	7.774	0.000	22673827	11.1			M
						RPD = 22.38			
6 PCB-1016									M
1	1	3.702	3.701	0.001	2870204	110.1		100.0	
1	2	3.902	3.901	0.001	2976700	114.5	73.7- 133.7	103.7	
1	3	4.170	4.169	0.001	5644394	120.5	166.7- 226.7	196.7	
1	4	4.418	4.418	0.000	2443191	114.6	55.1- 115.1	85.1	M
1	5	4.630	4.630	0.000	2891191	108.1	70.7- 130.7	100.7	M
			Average of Peak Amounts =			113.5			
2	6	3.778	3.776	0.002	7363133	114.9		100.0	
2	7	3.972	3.969	0.003	6876866	114.6	63.4- 123.4	93.4	
2	8	4.278	4.276	0.002	13971045	111.1	159.7- 219.7	189.7	
2	9	4.543	4.543	0.000	5379319	114.6	43.1- 103.1	73.1	M
2	10	4.727	4.727	0.000	6226295	107.1	54.6- 114.6	84.6	M
			Average of Peak Amounts =			112.5			
						RPD = 0.97			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									M
1	1	5.650	5.649	0.001	5507442	106.2		100.0	
1	2	5.834	5.833	0.001	6477309	112.4	87.6- 147.6	117.6	
1	3	6.120	6.119	0.001	7895984	110.1	113.4- 173.4	143.4	
1	4	6.602	6.602	0.000	9247323	101.4	137.9- 197.9	167.9	
1	5	6.888	6.888	0.000	7157361	100.8	100.0- 160.0	130.0	
			Average of Peak Amounts =			106.2			
2	6	5.769	5.766	0.003	13977796	121.7		100.0	
2	7	6.007	6.005	0.002	19259729	111.1	107.8- 167.8	137.8	
2	8	6.234	6.234	0.000	18872679	113.8	105.0- 165.0	135.0	M
2	9	6.755	6.754	0.001	24595760	114.4	146.0- 206.0	176.0	
2	10	6.975	6.974	0.001	14453467	111.4	73.4- 133.4	103.4	
			Average of Peak Amounts =			114.5			
						RPD = 7.53			
S 12 Polychlorinated biphenyls, Total									
1						219.7			
2						226.9			
						RPD = 3.23			

QC Flag Legend

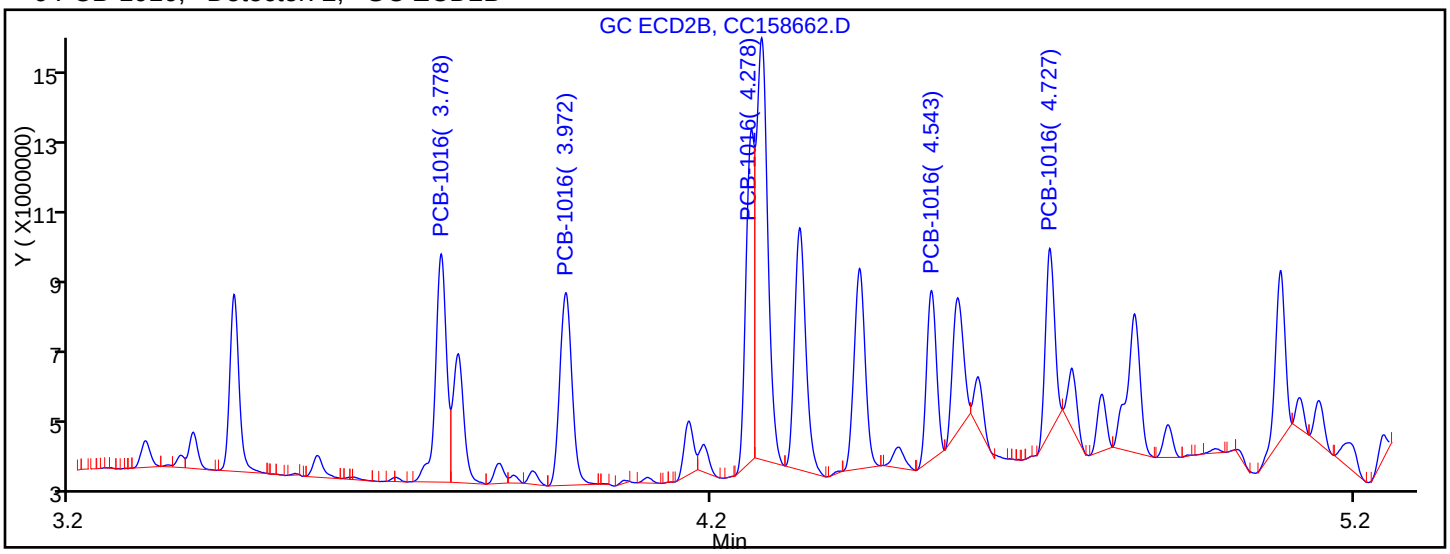
Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 14:40:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D
Injection Date: 16-Aug-2011 14:09:47 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 11
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



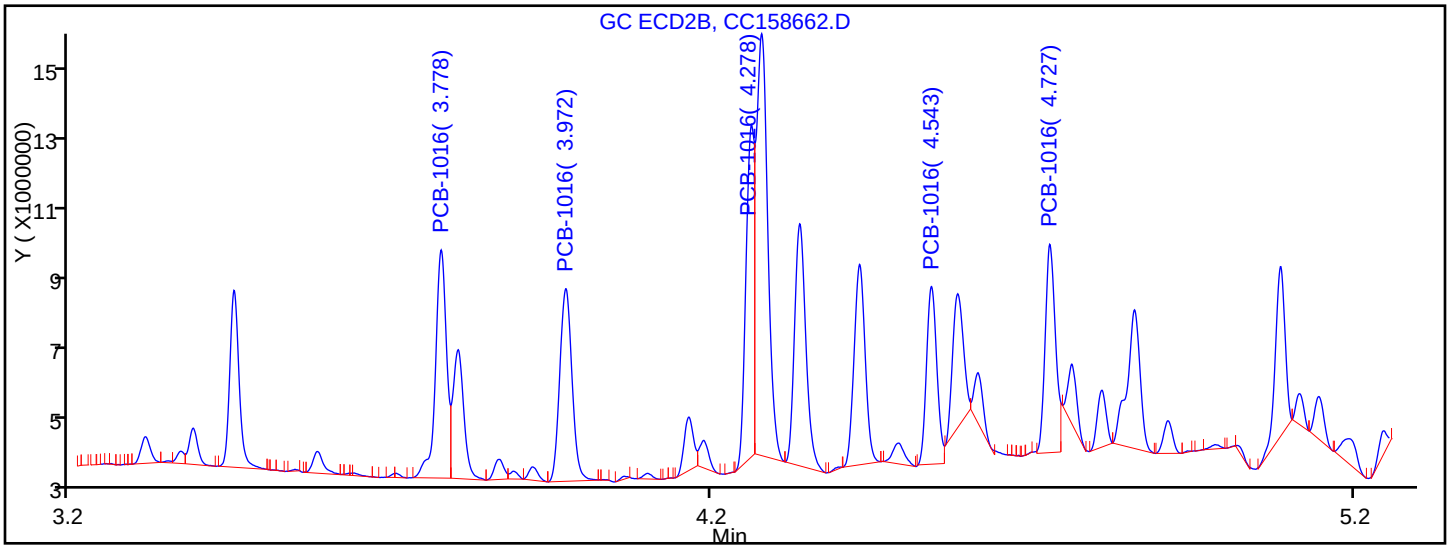
Report Date: 16-Aug-2011 14:40:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D
Injection Date: 16-Aug-2011 14:09:47 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 11
Operator ID: mam Injection Vol: 1.00 ul

6 PCB-1016, Detector: 2, GC ECD2B



Processing Integration Results

RT = 3.778	Response = 7363133	
RT = 3.972	Response = 6876866	
RT = 4.278	Response = 13971045	
RT = 4.543	Response = 4828007	M
RT = 4.727	Response = 4882244	M



Manual Integration Results

RT = 3.778	Response = 7363133	
RT = 3.972	Response = 6876866	
RT = 4.278	Response = 13971045	
RT = 4.543	Response = 5379319	M
RT = 4.727	Response = 6226295	M

Reviewer: muirm, 16-Aug-2011 14:40:28
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

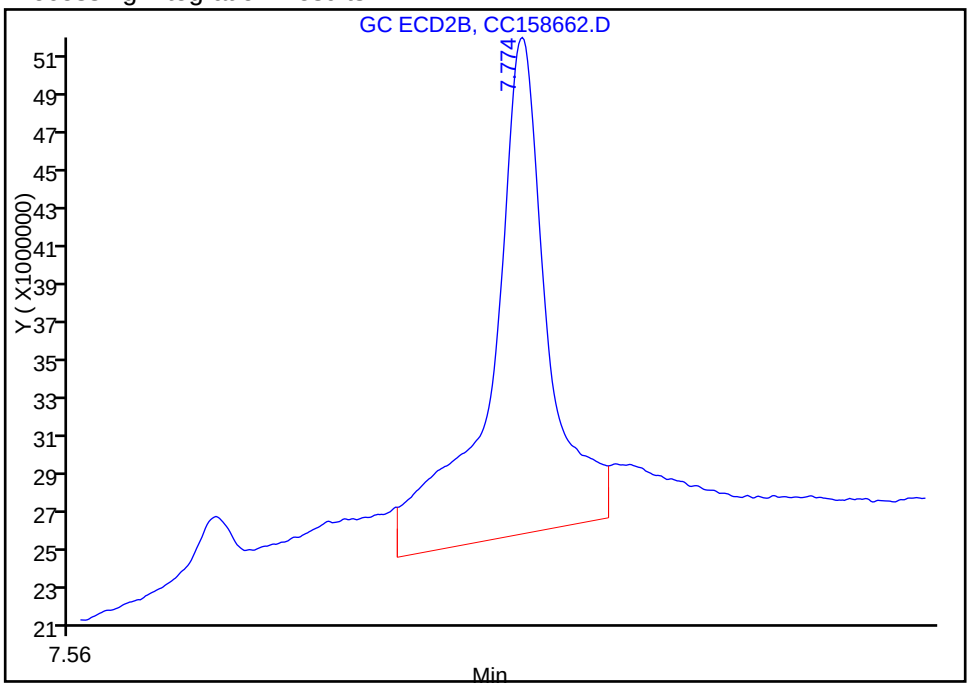
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D		
Injection Date:	16-Aug-2011 14:09:47	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	11
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

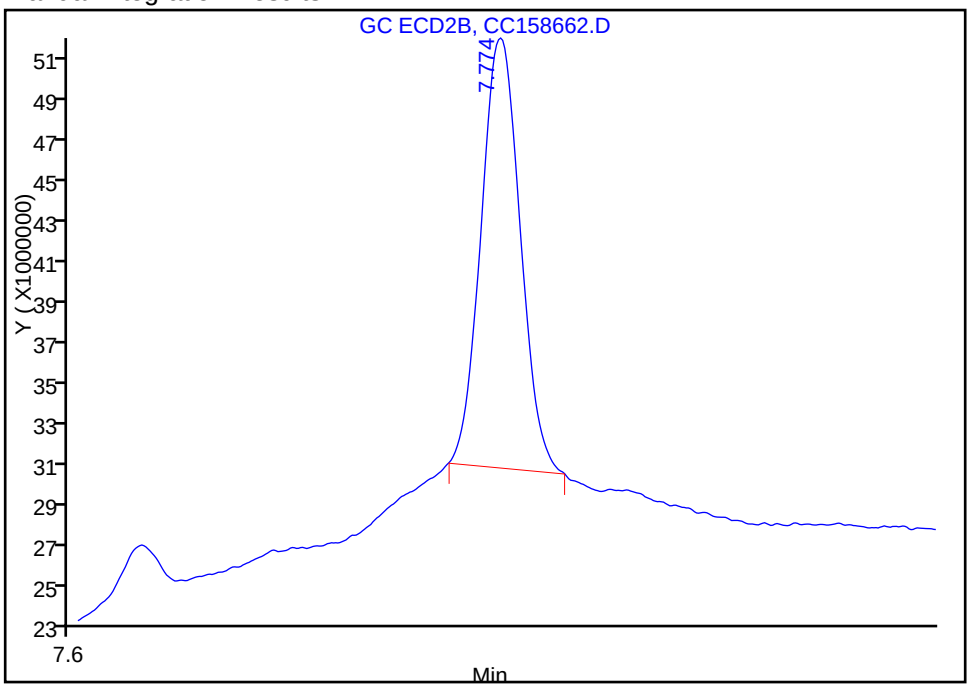
Processing Integration Results

RT: 7.77
Response: 46925257
Amount: 23.051635



Manual Integration Results

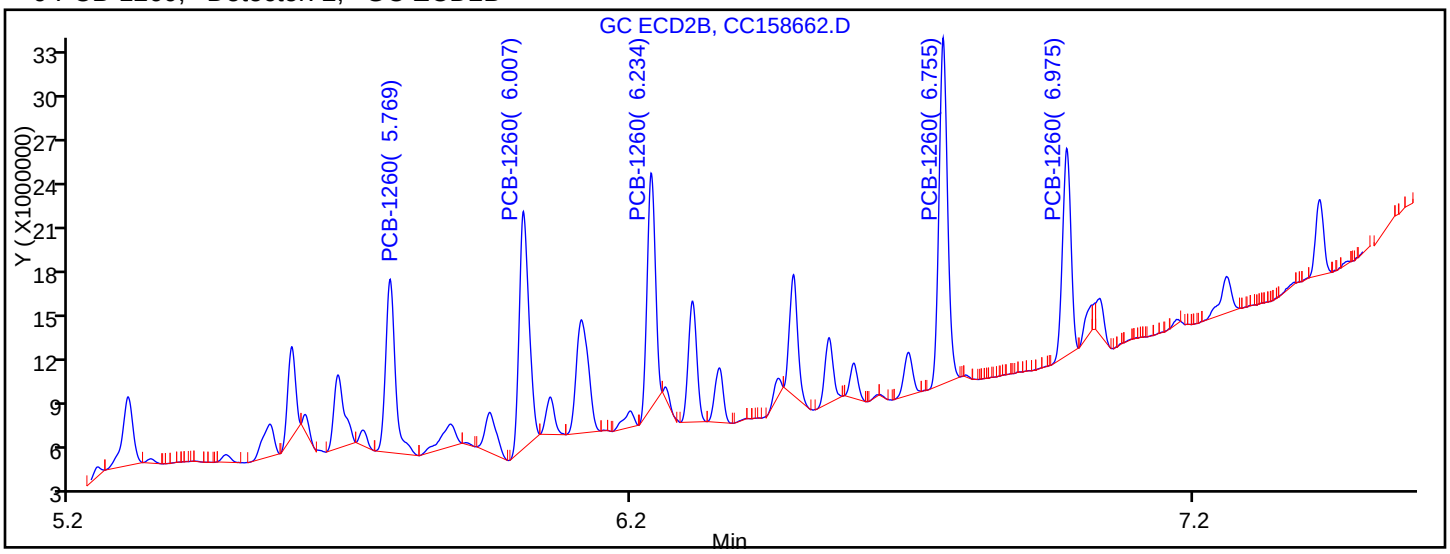
RT: 7.77
Response: 22673827
Amount: 11.138326



Reviewer: muirm, 16-Aug-2011 14:40:28
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

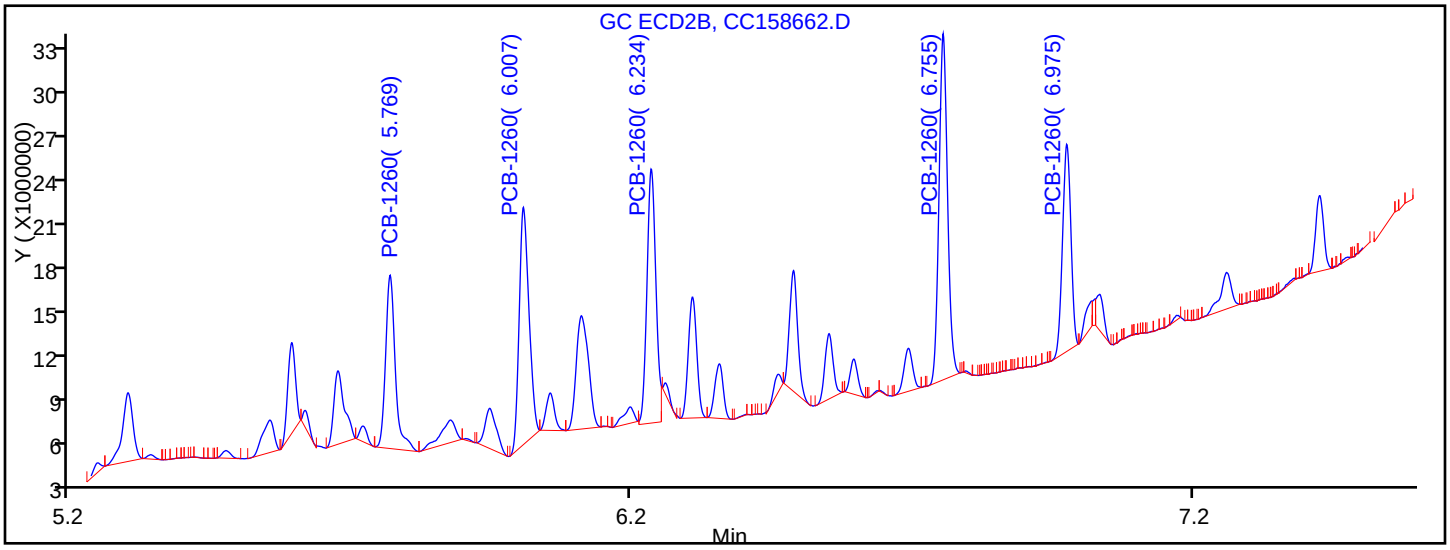
Report Date: 16-Aug-2011 14:40:29 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158662.D
Injection Date: 16-Aug-2011 14:09:47 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 11
Operator ID: mam Injection Vol: 1.00 ul

9 PCB-1260, Detector: 2, GC ECD2B



Processing Integration Results

RT = 5.769	Response = 13977796	
RT = 6.007	Response = 19259729	
RT = 6.234	Response = 16020336	M
RT = 6.755	Response = 24595760	
RT = 6.975	Response = 14453467	



Manual Integration Results

RT = 5.769	Response = 13977796	
RT = 6.007	Response = 19259729	
RT = 6.234	Response = 18872679	M
RT = 6.755	Response = 24595760	
RT = 6.975	Response = 14453467	

Reviewer: muirm, 16-Aug-2011 14:40:28
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/16 Calibration Date: 08/16/2011 17:03

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158665.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	26078	28816		111	100	10.5	20.0
PCB-1016 Peak 2	Ave	25989	29903		115	100	15.1	20.0
PCB-1016 Peak 3	Ave	46857	56353		120	100	20.3*	20.0
PCB-1016 Peak 4	Lin1		25852		122	100	21.7*	20.0
PCB-1016 Peak 5	Ave	26749	28803		108	100	7.7	20.0
PCB-1260 Peak 1	Ave	51857	54036		104	100	4.2	20.0
PCB-1260 Peak 2	Lin1		62221		108	100	7.9	20.0
PCB-1260 Peak 3	Lin1		75779		106	100	5.5	20.0
PCB-1260 Peak 4	Ave	91214	91121		99.9	100	-0.1	20.0
PCB-1260 Peak 5	Ave	71029	73166		103	100	3.0	20.0
Tetrachloro-m-xylene	Ave	1031214	1142167		11.1	10.0	10.8	20.0
DCB Decachlorobiphenyl	Lin1		1042008		14.3	10.0	43.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/16 Calibration Date: 08/16/2011 17:03

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158665.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.70	3.67	3.73
PCB-1016 Peak 2	3.91	3.88	3.94
PCB-1016 Peak 3	4.17	4.14	4.20
PCB-1016 Peak 4	4.42	4.39	4.45
PCB-1016 Peak 5	4.63	4.60	4.66
PCB-1260 Peak 1	5.65	5.62	5.68
PCB-1260 Peak 2	5.84	5.80	5.86
PCB-1260 Peak 3	6.12	6.09	6.15
PCB-1260 Peak 4	6.61	6.57	6.63
PCB-1260 Peak 5	6.89	6.86	6.92
Tetrachloro-m-xylene	3.02	2.99	3.05
DCB Decachlorobiphenyl	7.68	7.64	7.70

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D
Lims ID: ccv Client ID:
Inject. Date: 16-Aug-2011 17:03:08 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 92903 Lims Sample ID: 16
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 18-Aug-2011 06:54:42 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 18-Aug-2011 06:54:42

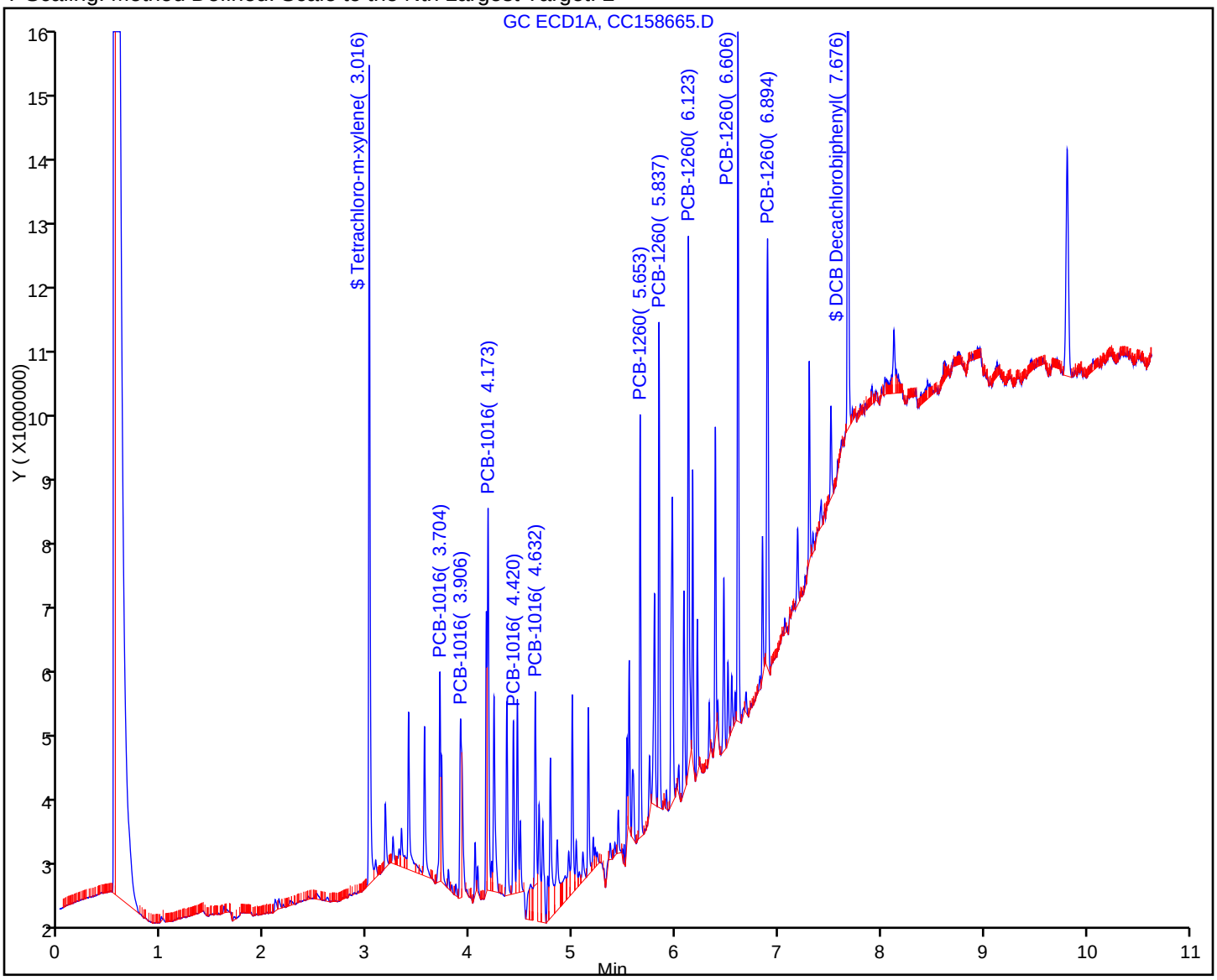
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									M
1	1	3.016	3.016	0.000	11422700	11.1			
2	2	3.107	3.107	0.000	27898660	10.7			M
						RPD = 3.60			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.676	7.672	0.004	10420078	14.3			
2	2	7.771	7.771	0.000	23800416	11.7			M
						RPD = 20.03			
6 PCB-1016									M
1	1	3.704	3.701	0.003	2881605	110.5		100.0	
1	2	3.906	3.906	0.000	2990333	115.1	73.8- 133.8	103.8	M
1	3	4.173	4.169	0.004	5635296	120.3	165.6- 225.6	195.6	
1	4	4.420	4.418	0.002	2585228	121.7	59.7- 119.7	89.7	
1	5	4.632	4.632	0.000	2880254	107.7	70.0- 130.0	100.0	M
			Average of Peak Amounts =			115.0			
2	6	3.772	3.776	-0.004	6101980	95.2		100.0	
2	7	3.967	3.969	-0.002	6511379	108.2	76.7- 136.7	106.7	
2	8	4.272	4.276	-0.004	13595231	108.1	192.8- 252.8	222.8	
2	9	4.537	4.543	-0.006	5092919	108.5	53.5- 113.5	83.5	
2	10	4.722	4.722	0.000	6206021	106.7	71.7- 131.7	101.7	M
			Average of Peak Amounts =			105.4			
						RPD = 8.79			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.653	5.649	0.004	5403572	104.2		100.0	
1	2	5.837	5.833	0.004	6222058	107.9	85.1- 145.1	115.1	
1	3	6.123	6.119	0.004	7577864	105.5	110.2- 170.2	140.2	
1	4	6.606	6.602	0.004	9112113	99.9	138.6- 198.6	168.6	
1	5	6.894	6.888	0.006	7316550	103.0	105.4- 165.4	135.4	
			Average of Peak Amounts =			104.1			
2	6	5.766	5.766	0.000	12062520	105.1		100.0	
2	7	6.004	6.005	-0.001	20102885	116.1	136.7- 196.7	166.7	
2	8	6.232	6.234	-0.002	17877609	107.8	118.2- 178.2	148.2	
2	9	6.753	6.754	-0.001	26046711	121.2	185.9- 245.9	215.9	
2	10	6.973	6.974	-0.001	14751259	113.7	92.3- 152.3	122.3	
			Average of Peak Amounts =			112.8			
						RPD = 7.99			
S 12 Polychlorinated biphenyls, Total									
1						219.1			
2						218.1			
						RPD = 0.47			

QC Flag Legend

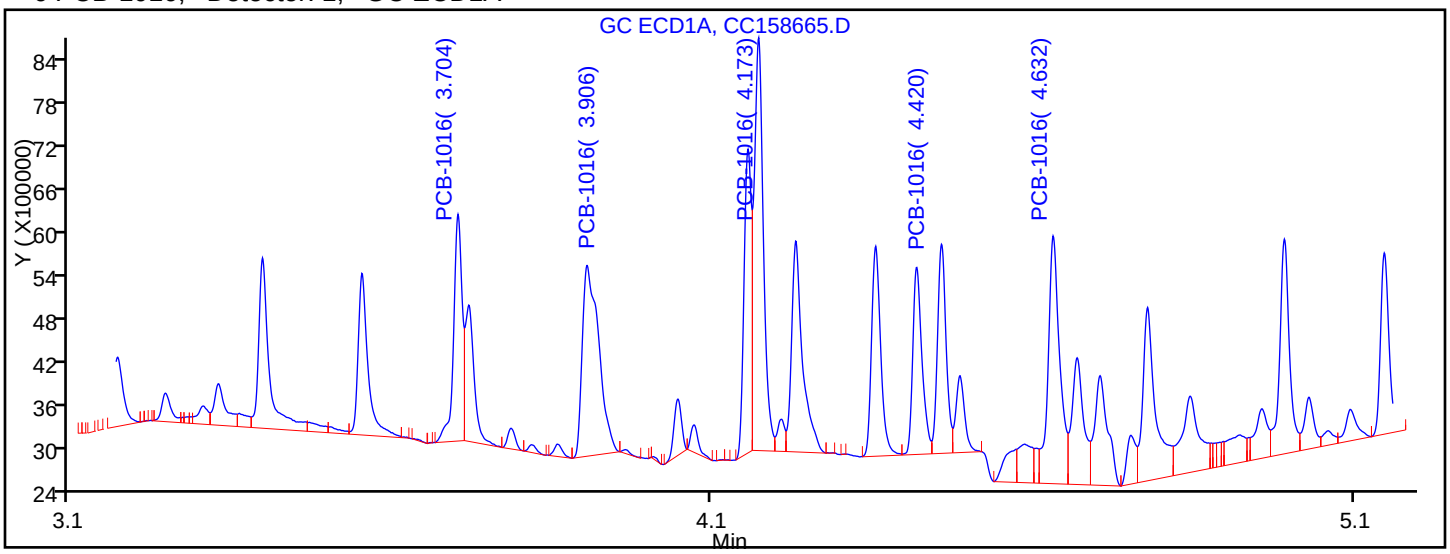
Review Flags
M - Manually Integrated

Report Date: 18-Aug-2011 06:54:42 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D
Injection Date: 16-Aug-2011 17:03:08 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 16
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



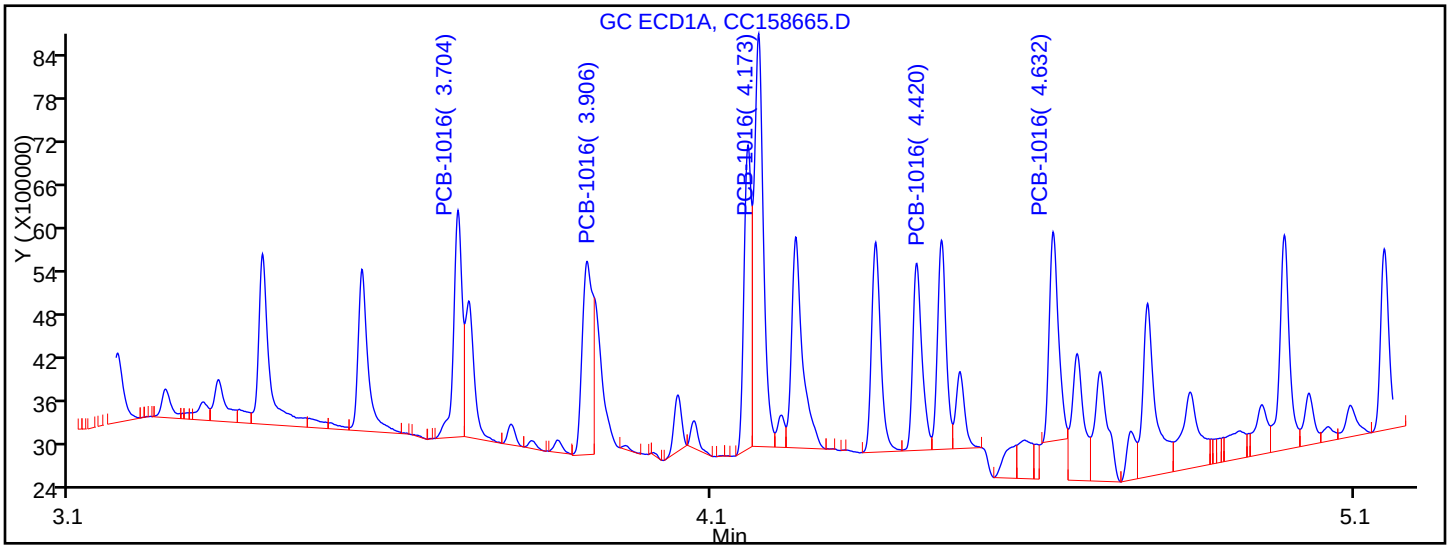
Report Date: 18-Aug-2011 06:54:43 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D
Injection Date: 16-Aug-2011 17:03:08 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 16
Operator ID: mam Injection Vol: 1.00 ul

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.704	Response = 2881605	
RT = 3.906	Response = 4669257	M
RT = 4.173	Response = 5635296	
RT = 4.420	Response = 2585228	
RT = 4.632	Response = 4317175	M



Manual Integration Results

RT = 3.704	Response = 2881605	
RT = 3.906	Response = 2990333	M
RT = 4.173	Response = 5635296	
RT = 4.420	Response = 2585228	
RT = 4.632	Response = 2880254	M

Reviewer: muirm, 18-Aug-2011 06:54:42
Audit Action: Manually Integrated
Audit Reason: Shouldering

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/16 Calibration Date: 08/16/2011 17:03

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158665.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	64080	61020		95.2	100	-4.8	20.0
PCB-1016 Peak 2	Lin1		65114		108	100	8.2	20.0
PCB-1016 Peak 3	Ave	125788	135952		108	100	8.1	20.0
PCB-1016 Peak 4	Ave	46934	50929		109	100	8.5	20.0
PCB-1016 Peak 5	Ave	58141	62060		107	100	6.7	20.0
PCB-1260 Peak 1	Ave	114814	120625		105	100	5.1	20.0
PCB-1260 Peak 2	Lin1		201029		116	100	16.1	20.0
PCB-1260 Peak 3	Ave	165857	178776		108	100	7.8	20.0
PCB-1260 Peak 4	Ave	214975	260467		121	100	21.2*	20.0
PCB-1260 Peak 5	Ave	129719	147513		114	100	13.7	20.0
Tetrachloro-m-xylene	Ave	2610963	2789615		10.7	10.0	6.8	20.0
DCB Decachlorobiphenyl	Ave	2035658	2380042		11.7	10.0	16.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-92903/16 Calibration Date: 08/16/2011 17:03

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158665.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.77	3.75	3.81
PCB-1016 Peak 2	3.97	3.94	4.00
PCB-1016 Peak 3	4.27	4.25	4.31
PCB-1016 Peak 4	4.54	4.51	4.57
PCB-1016 Peak 5	4.72	4.69	4.75
PCB-1260 Peak 1	5.77	5.74	5.80
PCB-1260 Peak 2	6.00	5.98	6.04
PCB-1260 Peak 3	6.23	6.20	6.26
PCB-1260 Peak 4	6.75	6.72	6.78
PCB-1260 Peak 5	6.97	6.94	7.00
Tetrachloro-m-xylene	3.11	3.08	3.14
DCB Decachlorobiphenyl	7.77	7.74	7.80

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D
Lims ID: ccv Client ID:
Inject. Date: 16-Aug-2011 17:03:08 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: CCV
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 92903 Lims Sample ID: 16
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 18-Aug-2011 06:54:42 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 18-Aug-2011 06:54:42

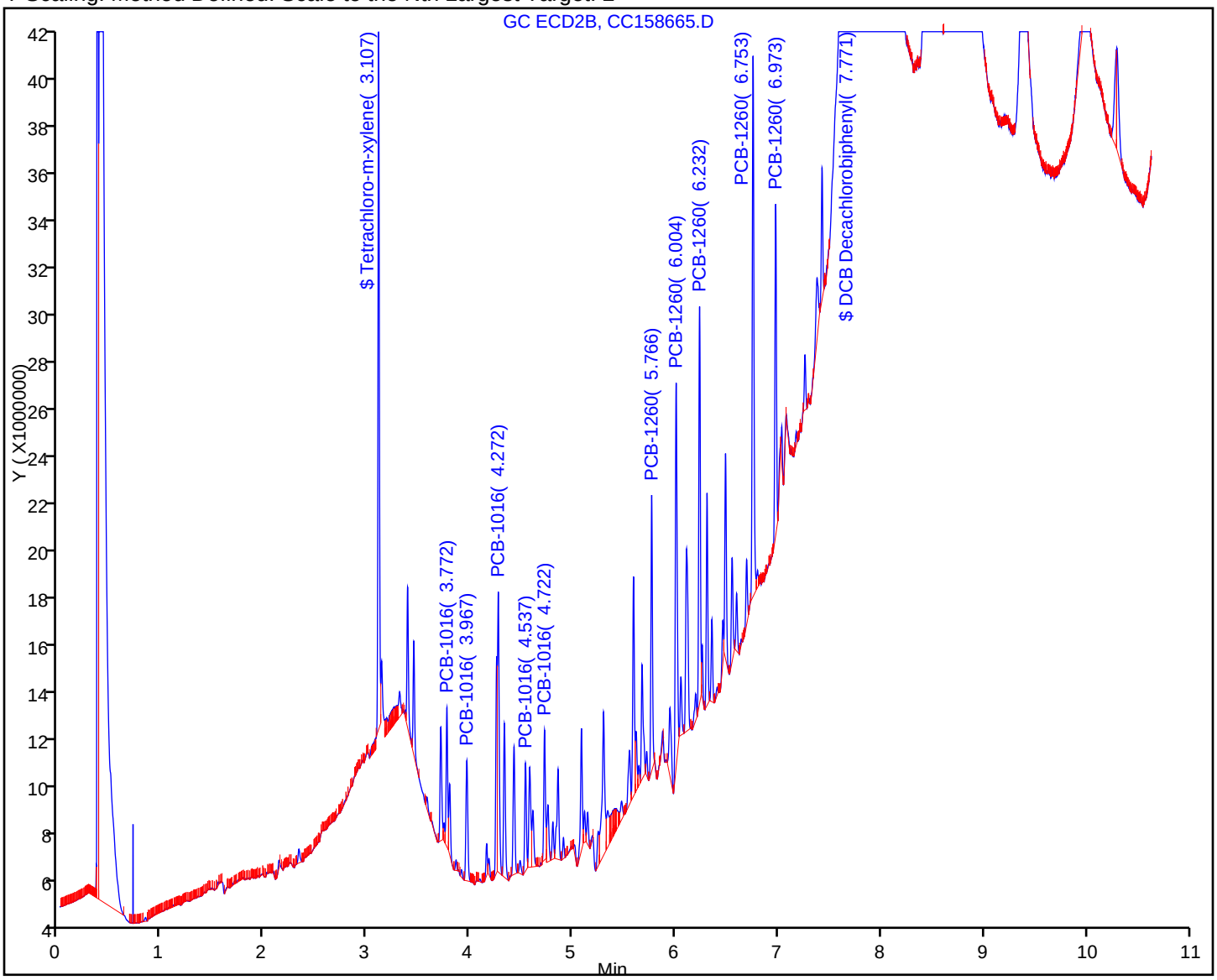
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									M
1	1	3.016	3.016	0.000	11422700	11.1			
2	2	3.107	3.107	0.000	27898660	10.7			M
						RPD = 3.60			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.676	7.672	0.004	10420078	14.3			
2	2	7.771	7.771	0.000	23800416	11.7			M
						RPD = 20.03			
6 PCB-1016									M
1	1	3.704	3.701	0.003	2881605	110.5		100.0	
1	2	3.906	3.906	0.000	2990333	115.1	73.8- 133.8	103.8	M
1	3	4.173	4.169	0.004	5635296	120.3	165.6- 225.6	195.6	
1	4	4.420	4.418	0.002	2585228	121.7	59.7- 119.7	89.7	
1	5	4.632	4.632	0.000	2880254	107.7	70.0- 130.0	100.0	M
			Average of Peak Amounts =			115.0			
2	6	3.772	3.776	-0.004	6101980	95.2		100.0	
2	7	3.967	3.969	-0.002	6511379	108.2	76.7- 136.7	106.7	
2	8	4.272	4.276	-0.004	13595231	108.1	192.8- 252.8	222.8	
2	9	4.537	4.543	-0.006	5092919	108.5	53.5- 113.5	83.5	
2	10	4.722	4.722	0.000	6206021	106.7	71.7- 131.7	101.7	M
			Average of Peak Amounts =			105.4			
						RPD = 8.79			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.653	5.649	0.004	5403572	104.2		100.0	
1	2	5.837	5.833	0.004	6222058	107.9	85.1- 145.1	115.1	
1	3	6.123	6.119	0.004	7577864	105.5	110.2- 170.2	140.2	
1	4	6.606	6.602	0.004	9112113	99.9	138.6- 198.6	168.6	
1	5	6.894	6.888	0.006	7316550	103.0	105.4- 165.4	135.4	
			Average of Peak Amounts =			104.1			
2	6	5.766	5.766	0.000	12062520	105.1		100.0	
2	7	6.004	6.005	-0.001	20102885	116.1	136.7- 196.7	166.7	
2	8	6.232	6.234	-0.002	17877609	107.8	118.2- 178.2	148.2	
2	9	6.753	6.754	-0.001	26046711	121.2	185.9- 245.9	215.9	
2	10	6.973	6.974	-0.001	14751259	113.7	92.3- 152.3	122.3	
			Average of Peak Amounts =			112.8			
						RPD = 7.99			
S 12 Polychlorinated biphenyls, Total									
1						219.1			
2						218.1			
						RPD = 0.47			

QC Flag Legend

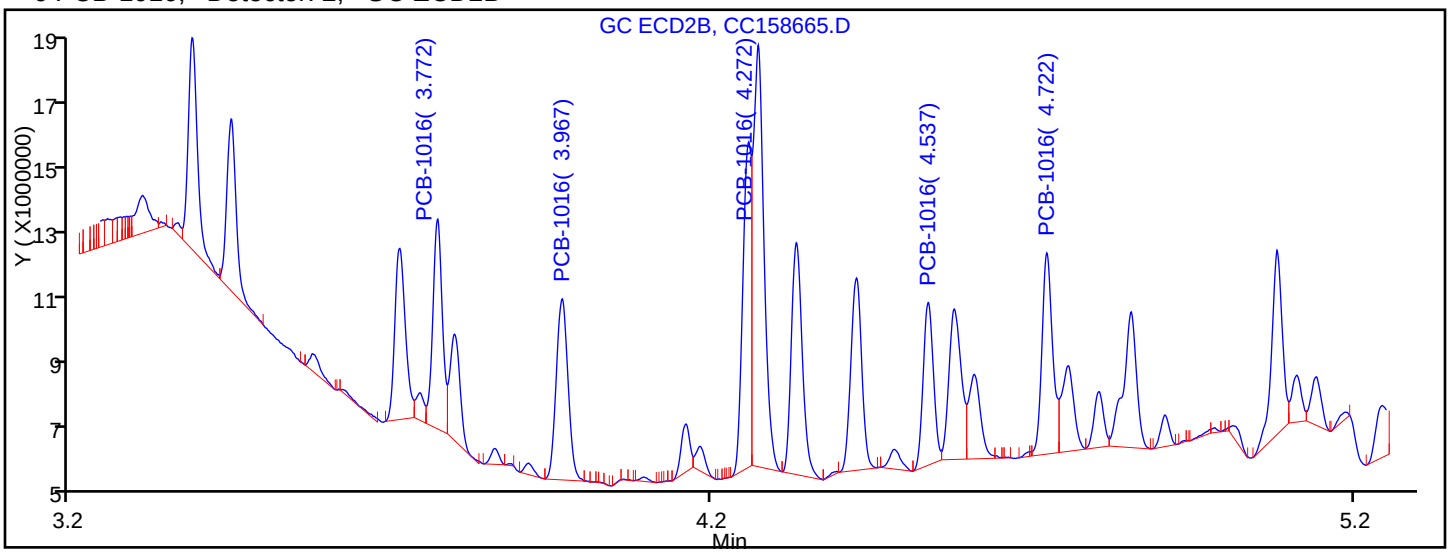
Review Flags
M - Manually Integrated

Report Date: 18-Aug-2011 06:54:43 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D
Injection Date: 16-Aug-2011 17:03:08 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 16
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



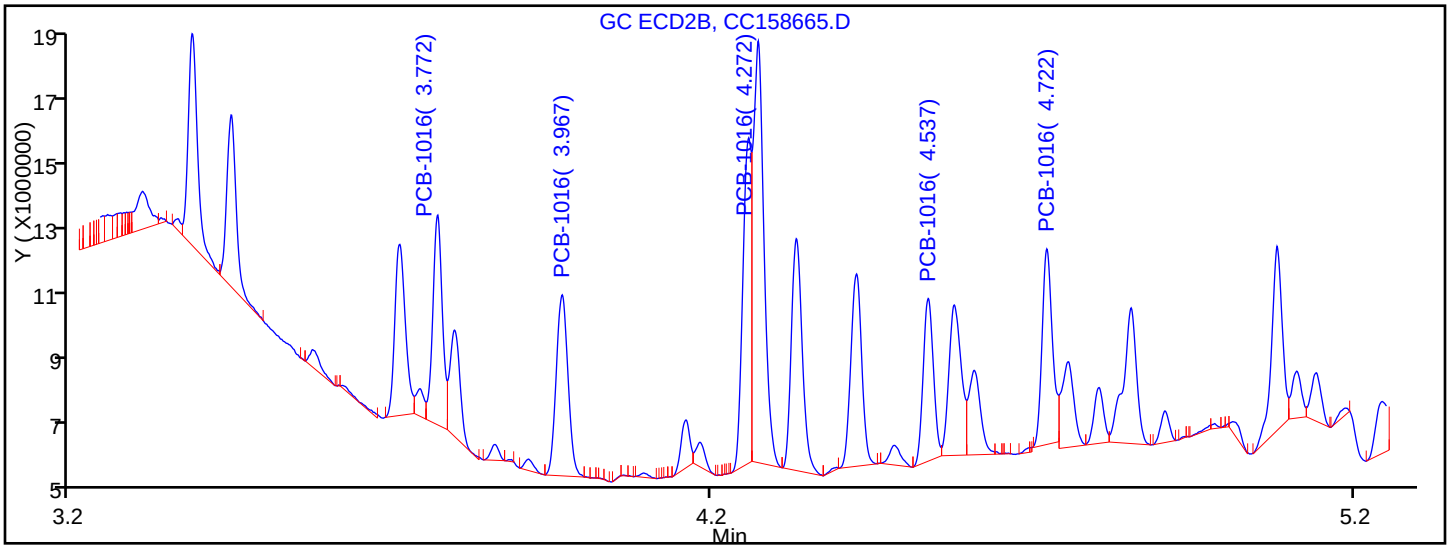
Report Date: 18-Aug-2011 06:54:43 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D
Injection Date: 16-Aug-2011 17:03:08 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 16
Operator ID: mam Injection Vol: 1.00 ul

6 PCB-1016, Detector: 2, GC ECD2B



Processing Integration Results

RT = 3.772 Response = 6101980
RT = 3.967 Response = 6511379
RT = 4.272 Response = 13595231
RT = 4.537 Response = 5092919
RT = 4.722 Response = 6598036 M



Manual Integration Results

RT = 3.772 Response = 6101980
RT = 3.967 Response = 6511379
RT = 4.272 Response = 13595231
RT = 4.537 Response = 5092919
RT = 4.722 Response = 6206021 M

Reviewer: muirm, 18-Aug-2011 06:54:42
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

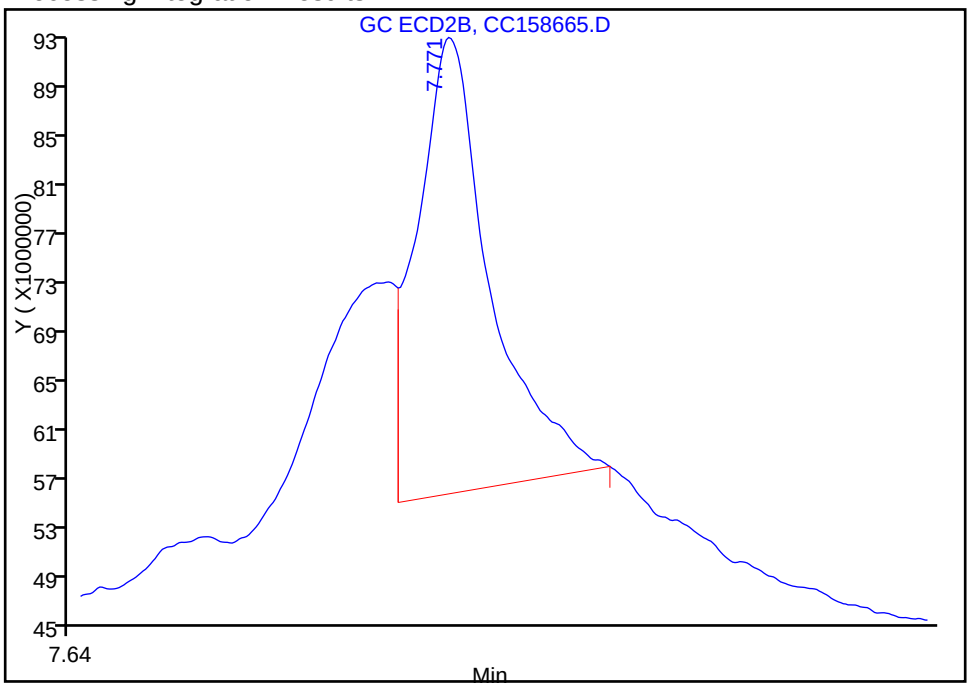
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D		
Injection Date:	16-Aug-2011 17:03:08	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	16
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

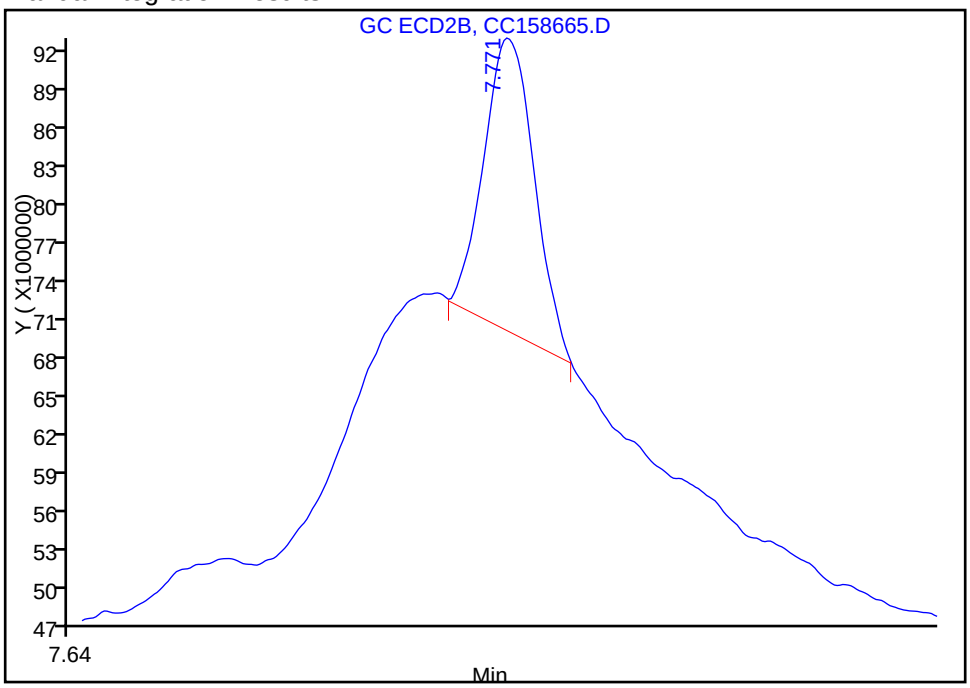
Processing Integration Results

RT: 7.77
Response: 64275229
Amount: 31.574662



Manual Integration Results

RT: 7.77
Response: 23800416
Amount: 11.691753



Reviewer: muirm, 18-Aug-2011 06:54:42
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

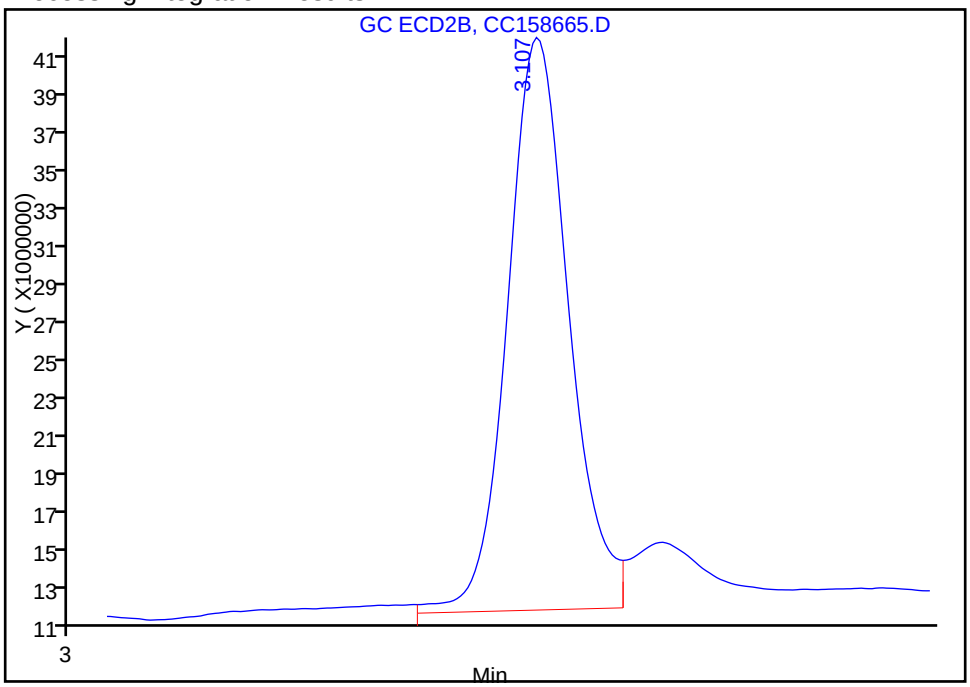
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158665.D		
Injection Date:	16-Aug-2011 17:03:08	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	16
Operator ID:	mam	Injection Vol:	1.00 ul

$ 1 Tetrachloro-m-xylene, Signal: 2, Type: quant, RT: 3.11, Det: GC ECD2B

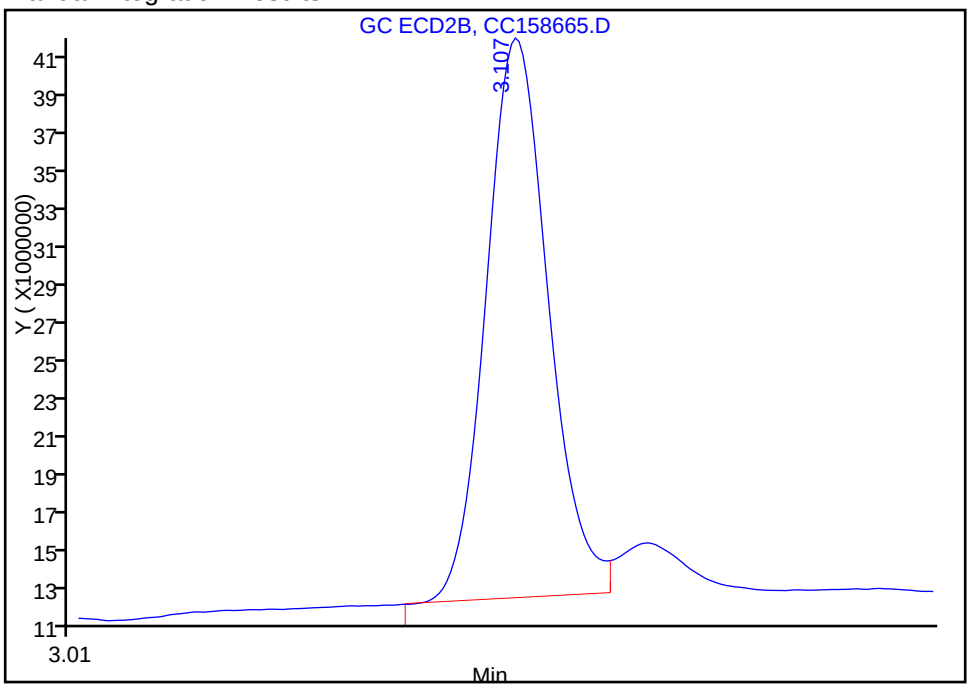
Processing Integration Results

RT: 3.11
Response: 29678016
Amount: 11.366695



Manual Integration Results

RT: 3.11
Response: 27898660
Amount: 10.685201



Reviewer: muirm, 18-Aug-2011 06:54:42
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-93679/2 Calibration Date: 08/25/2011 11:04

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158945.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	26078	24731		94.8	100	-5.2	20.0
PCB-1016 Peak 2	Ave	25989	27261		105	100	4.9	20.0
PCB-1016 Peak 3	Ave	46857	52251		112	100	11.5	20.0
PCB-1016 Peak 4	Lin1		23121		108	100	8.0	20.0
PCB-1016 Peak 5	Ave	26749	27117		101	100	1.4	20.0
PCB-1260 Peak 1	Ave	51857	51806		99.9	100	-0.1	20.0
PCB-1260 Peak 2	Lin1		58758		102	100	1.8	20.0
PCB-1260 Peak 3	Lin1		72531		101	100	0.7	20.0
PCB-1260 Peak 4	Ave	91214	90161		98.8	100	-1.2	20.0
PCB-1260 Peak 5	Ave	71029	69369		97.7	100	-2.3	20.0
Tetrachloro-m-xylene	Ave	1031214	1062078		10.3	10.0	3.0	20.0
DCB Decachlorobiphenyl	Lin1		905500		12.3	10.0	23.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-93679/2 Calibration Date: 08/25/2011 11:04

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158945.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.68	3.65	3.71
PCB-1016 Peak 2	3.88	3.85	3.91
PCB-1016 Peak 3	4.15	4.12	4.18
PCB-1016 Peak 4	4.40	4.37	4.43
PCB-1016 Peak 5	4.61	4.58	4.64
PCB-1260 Peak 1	5.64	5.61	5.67
PCB-1260 Peak 2	5.82	5.79	5.85
PCB-1260 Peak 3	6.11	6.08	6.14
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.88	6.85	6.91
Tetrachloro-m-xylene	3.00	2.97	3.03
DCB Decachlorobiphenyl	7.66	7.63	7.69

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158945.D
Lims ID: ccvrt Client ID:
Inject. Date: 25-Aug-2011 11:04:02 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: ccvrt
Misc. Info.:
Operator: bat Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 93679 Lims Sample ID: 2
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m
Last Update: 25-Aug-2011 12:39:21 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC0022

First Level Reviewer: tadesseb Date: 25-Aug-2011 12:39:21

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	2.998	2.998	0.000	10621740	10.3			
2	2	3.097	3.097	0.000	28398858	10.9			
						RPD = 5.45			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.661	7.661	0.000	9054996	12.3			
2	2	7.754	7.754	0.000	24266214	11.9			M
						RPD = 3.50			
6 PCB-1016									
1	1	3.684	3.684	0.000	2473122	94.8		100.0	
1	2	3.884	3.884	0.000	2726059	104.9	80.2- 140.2	110.2	
1	3	4.152	4.152	0.000	5225131	111.5	181.3- 241.3	211.3	
1	4	4.401	4.401	0.000	2312104	108.0	63.5- 123.5	93.5	
1	5	4.613	4.613	0.000	2711706	101.4	79.6- 139.6	109.6	
			Average of Peak Amounts =			104.1			
2	6	3.759	3.759	0.000	6383402	99.6		100.0	
2	7	3.952	3.952	0.000	6507760	108.1	71.9- 131.9	101.9	
2	8	4.259	4.259	0.000	14326933	113.9	194.4- 254.4	224.4	
2	9	4.524	4.524	0.000	5180409	110.4	51.2- 111.2	81.2	
2	10	4.708	4.708	0.000	6222294	107.0	67.5- 127.5	97.5	
			Average of Peak Amounts =			107.8			
						RPD = 3.47			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.635	5.635	0.000	5180563	99.9		100.0	
1	2	5.819	5.819	0.000	5875772	101.8	83.4- 143.4	113.4	
1	3	6.107	6.107	0.000	7253095	100.7	110.0- 170.0	140.0	
1	4	6.589	6.589	0.000	9016114	98.8	144.0- 204.0	174.0	
1	5	6.877	6.877	0.000	6936862	97.7	103.9- 163.9	133.9	
			Average of Peak Amounts =			99.8			
2	6	5.750	5.750	0.000	12221573	106.4		100.0	
2	7	5.990	5.990	0.000	17412140	100.2	112.5- 172.5	142.5	
2	8	6.218	6.218	0.000	15197504	91.6	94.3- 154.3	124.3	
2	9	6.738	6.738	0.000	21596370	100.5	146.7- 206.7	176.7	
2	10	6.957	6.957	0.000	11853690	91.4	67.0- 127.0	97.0	
			Average of Peak Amounts =			98.0			
						RPD = 1.78			
S 12 Polychlorinated biphenyls, Total									
1						203.9			
2						205.8			
						RPD = 0.93			

QC Flag Legend

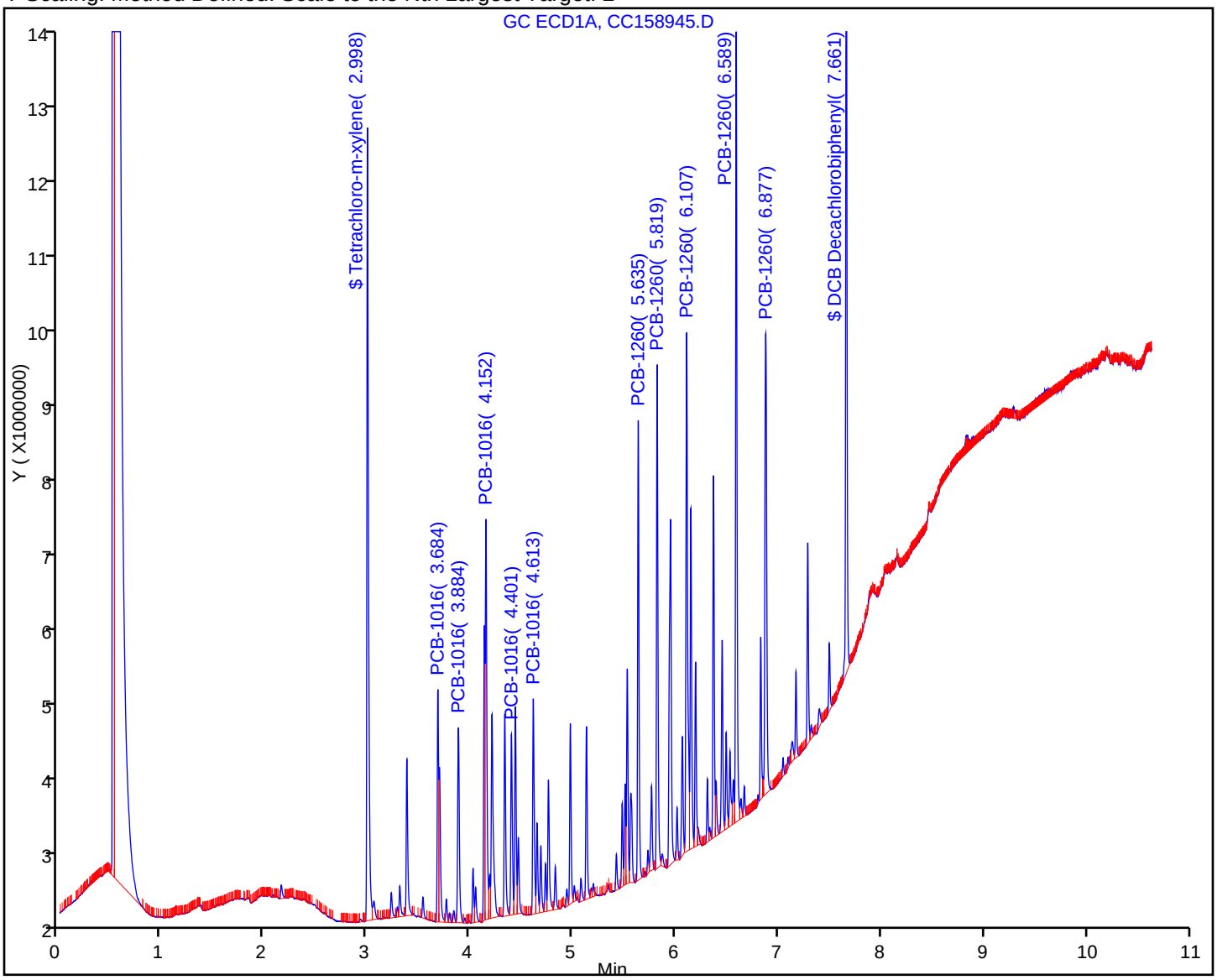
Review Flags
M - Manually Integrated

Report Date: 25-Aug-2011 12:39:21 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158945.D

Injection Date:	25-Aug-2011 11:04:02	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	2
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-93679/2 Calibration Date: 08/25/2011 11:04

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158945.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	64080	63834		99.6	100	-0.4	20.0
PCB-1016 Peak 2	Lin1		65078		108	100	8.1	20.0
PCB-1016 Peak 3	Ave	125788	143269		114	100	13.9	20.0
PCB-1016 Peak 4	Ave	46934	51804		110	100	10.4	20.0
PCB-1016 Peak 5	Ave	58141	62223		107	100	7.0	20.0
PCB-1260 Peak 1	Ave	114814	122216		106	100	6.4	20.0
PCB-1260 Peak 2	Lin1		174121		100	100	0.2	20.0
PCB-1260 Peak 3	Ave	165857	151975		91.6	100	-8.4	20.0
PCB-1260 Peak 4	Ave	214975	215964		101	100	0.5	20.0
PCB-1260 Peak 5	Ave	129719	118537		91.4	100	-8.6	20.0
Tetrachloro-m-xylene	Ave	2610963	2839630		10.9	10.0	8.8	20.0
DCB Decachlorobiphenyl	Ave	2035658	2426621		11.9	10.0	19.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCVRT 580-93679/2 Calibration Date: 08/25/2011 11:04

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158945.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.76	3.73	3.79
PCB-1016 Peak 2	3.95	3.92	3.98
PCB-1016 Peak 3	4.26	4.23	4.29
PCB-1016 Peak 4	4.52	4.49	4.55
PCB-1016 Peak 5	4.71	4.68	4.74
PCB-1260 Peak 1	5.75	5.72	5.78
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.22	6.19	6.25
PCB-1260 Peak 4	6.74	6.71	6.77
PCB-1260 Peak 5	6.96	6.93	6.99
Tetrachloro-m-xylene	3.10	3.07	3.13
DCB Decachlorobiphenyl	7.75	7.72	7.78

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158945.D
Lims ID: ccvrt Client ID:
Inject. Date: 25-Aug-2011 11:04:02 Dil. Factor: 1.0000
Sample Type: CCVRT
Sample ID: ccvrt
Misc. Info.:
Operator: bat Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 93679 Lims Sample ID: 2
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m
Last Update: 25-Aug-2011 12:39:21 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC0022

First Level Reviewer: tadesseb Date: 25-Aug-2011 12:39:21

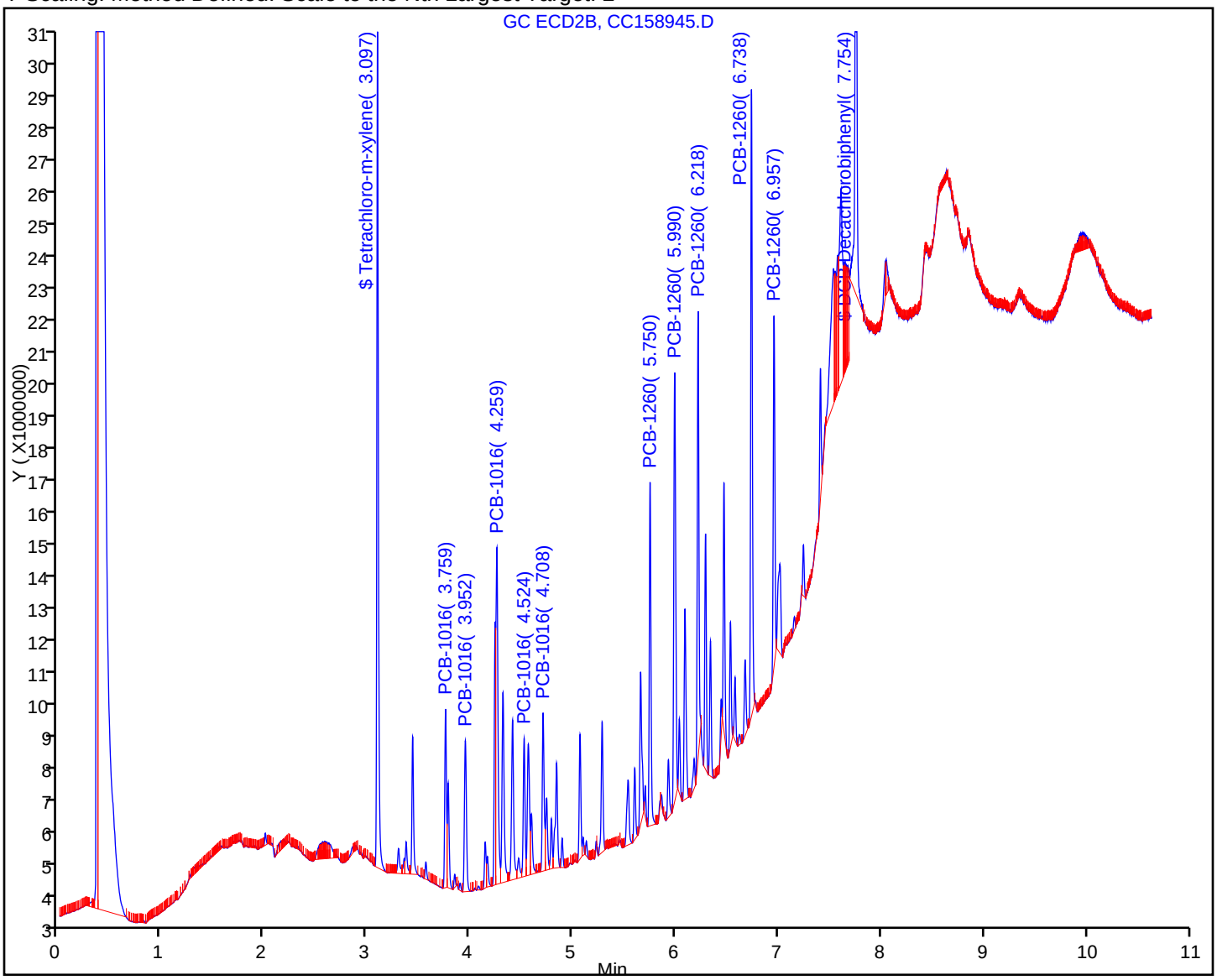
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	2.998	2.998	0.000	10621740	10.3			
2	2	3.097	3.097	0.000	28398858	10.9			
						RPD = 5.45			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.661	7.661	0.000	9054996	12.3			
2	2	7.754	7.754	0.000	24266214	11.9			M
						RPD = 3.50			
6 PCB-1016									
1	1	3.684	3.684	0.000	2473122	94.8		100.0	
1	2	3.884	3.884	0.000	2726059	104.9	80.2- 140.2	110.2	
1	3	4.152	4.152	0.000	5225131	111.5	181.3- 241.3	211.3	
1	4	4.401	4.401	0.000	2312104	108.0	63.5- 123.5	93.5	
1	5	4.613	4.613	0.000	2711706	101.4	79.6- 139.6	109.6	
			Average of Peak Amounts =			104.1			
2	6	3.759	3.759	0.000	6383402	99.6		100.0	
2	7	3.952	3.952	0.000	6507760	108.1	71.9- 131.9	101.9	
2	8	4.259	4.259	0.000	14326933	113.9	194.4- 254.4	224.4	
2	9	4.524	4.524	0.000	5180409	110.4	51.2- 111.2	81.2	
2	10	4.708	4.708	0.000	6222294	107.0	67.5- 127.5	97.5	
			Average of Peak Amounts =			107.8			
						RPD = 3.47			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.635	5.635	0.000	5180563	99.9		100.0	
1	2	5.819	5.819	0.000	5875772	101.8	83.4- 143.4	113.4	
1	3	6.107	6.107	0.000	7253095	100.7	110.0- 170.0	140.0	
1	4	6.589	6.589	0.000	9016114	98.8	144.0- 204.0	174.0	
1	5	6.877	6.877	0.000	6936862	97.7	103.9- 163.9	133.9	
			Average of Peak Amounts =			99.8			
2	6	5.750	5.750	0.000	12221573	106.4		100.0	
2	7	5.990	5.990	0.000	17412140	100.2	112.5- 172.5	142.5	
2	8	6.218	6.218	0.000	15197504	91.6	94.3- 154.3	124.3	
2	9	6.738	6.738	0.000	21596370	100.5	146.7- 206.7	176.7	
2	10	6.957	6.957	0.000	11853690	91.4	67.0- 127.0	97.0	
			Average of Peak Amounts =			98.0			
						RPD = 1.78			
S 12 Polychlorinated biphenyls, Total									
1						203.9			
2						205.8			
						RPD = 0.93			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 25-Aug-2011 12:39:22 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158945.D
Injection Date: 25-Aug-2011 11:04:02 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 93679 Lims Sample ID: 2
Operator ID: bat Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



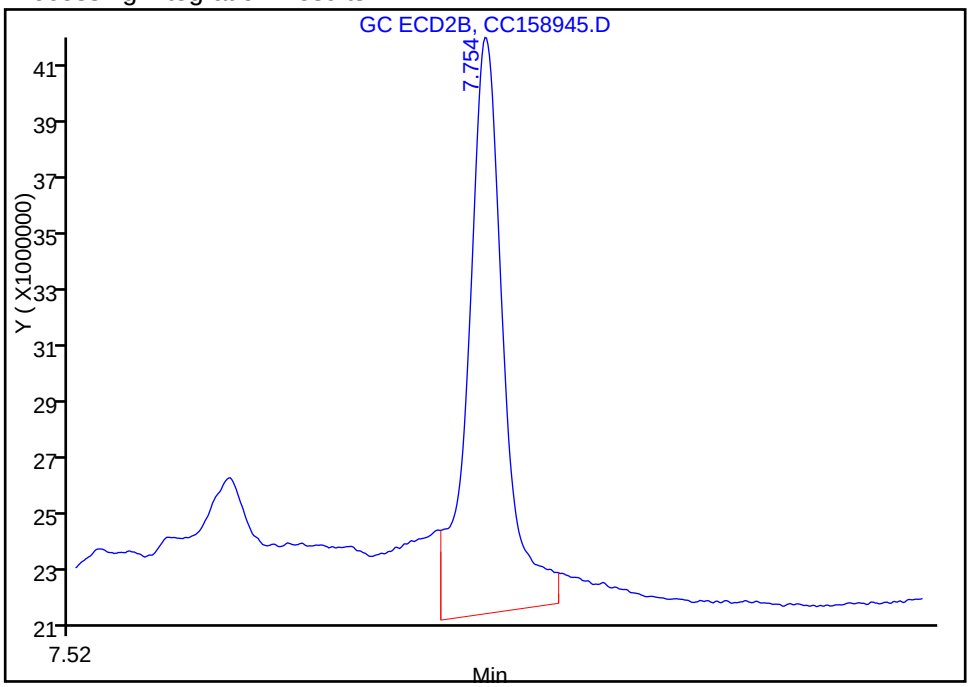
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158945.D		
Injection Date:	25-Aug-2011 11:04:02	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	2
Operator ID:	bat	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.75, Det: GC ECD2B

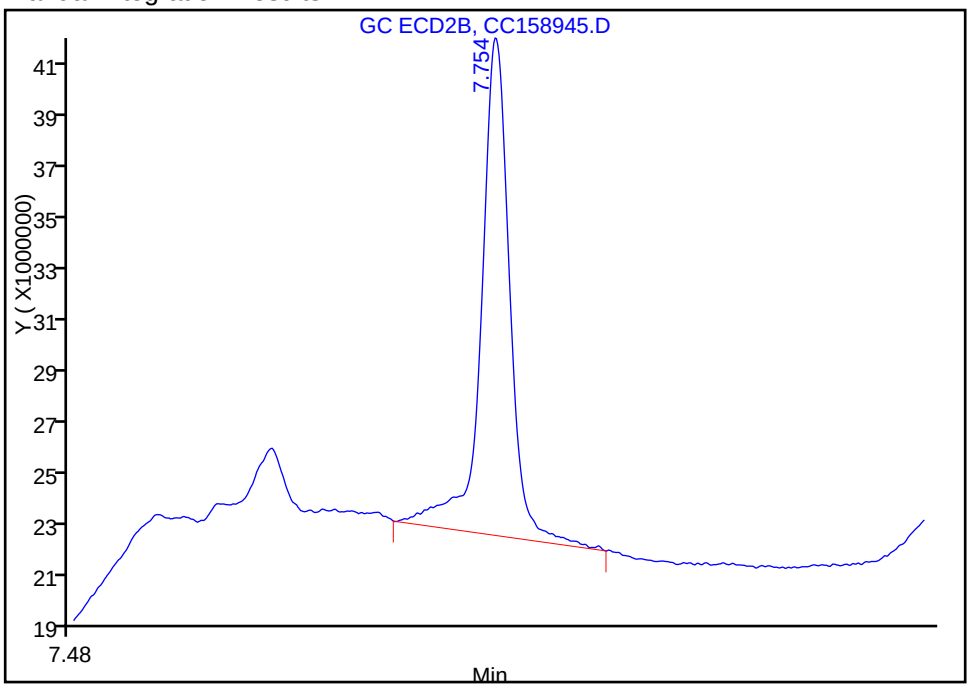
Processing Integration Results

RT: 7.75
Response: 28033240
Amount: 13.771092



Manual Integration Results

RT: 7.75
Response: 24266214
Amount: 11.920572



Reviewer: tadesseb, 25-Aug-2011 12:39:21
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/3 Calibration Date: 08/25/2011 11:44

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158946.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	11478	13833		121	100	20.5*	20.0
PCB-1221 Peak 2	Lin1		9029		127	100	27.2*	20.0
PCB-1221 Peak 3	Ave	27581	33029		120	100	19.8	20.0
PCB-1254 Peak 1	Ave	50747	59350		117	100	17.0	20.0
PCB-1254 Peak 2	Ave	42865	50644		118	100	18.1	20.0
PCB-1254 Peak 3	Ave	60720	76112		125	100	25.3*	20.0
PCB-1254 Peak 4	Ave	45745	50224		110	100	9.8	20.0
PCB-1254 Peak 5	Ave	53054	67207		127	100	26.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/3 Calibration Date: 08/25/2011 11:44

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158946.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.23	3.20	3.26
PCB-1221 Peak 2	3.32	3.29	3.35
PCB-1221 Peak 3	3.38	3.35	3.41
PCB-1254 Peak 1	4.98	4.96	5.02
PCB-1254 Peak 2	5.14	5.12	5.18
PCB-1254 Peak 3	5.51	5.50	5.56
PCB-1254 Peak 4	5.73	5.72	5.78
PCB-1254 Peak 5	6.11	6.10	6.16

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158946.D
Lims ID: ccv Client ID:
Inject. Date: 25-Aug-2011 11:44:01 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: bat Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 3
Lims Batch ID: 93679 Lims Sample ID: 3
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m
Last Update: 25-Aug-2011 12:33:19 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC0022

First Level Reviewer: tadesseb Date: 25-Aug-2011 12:33:19

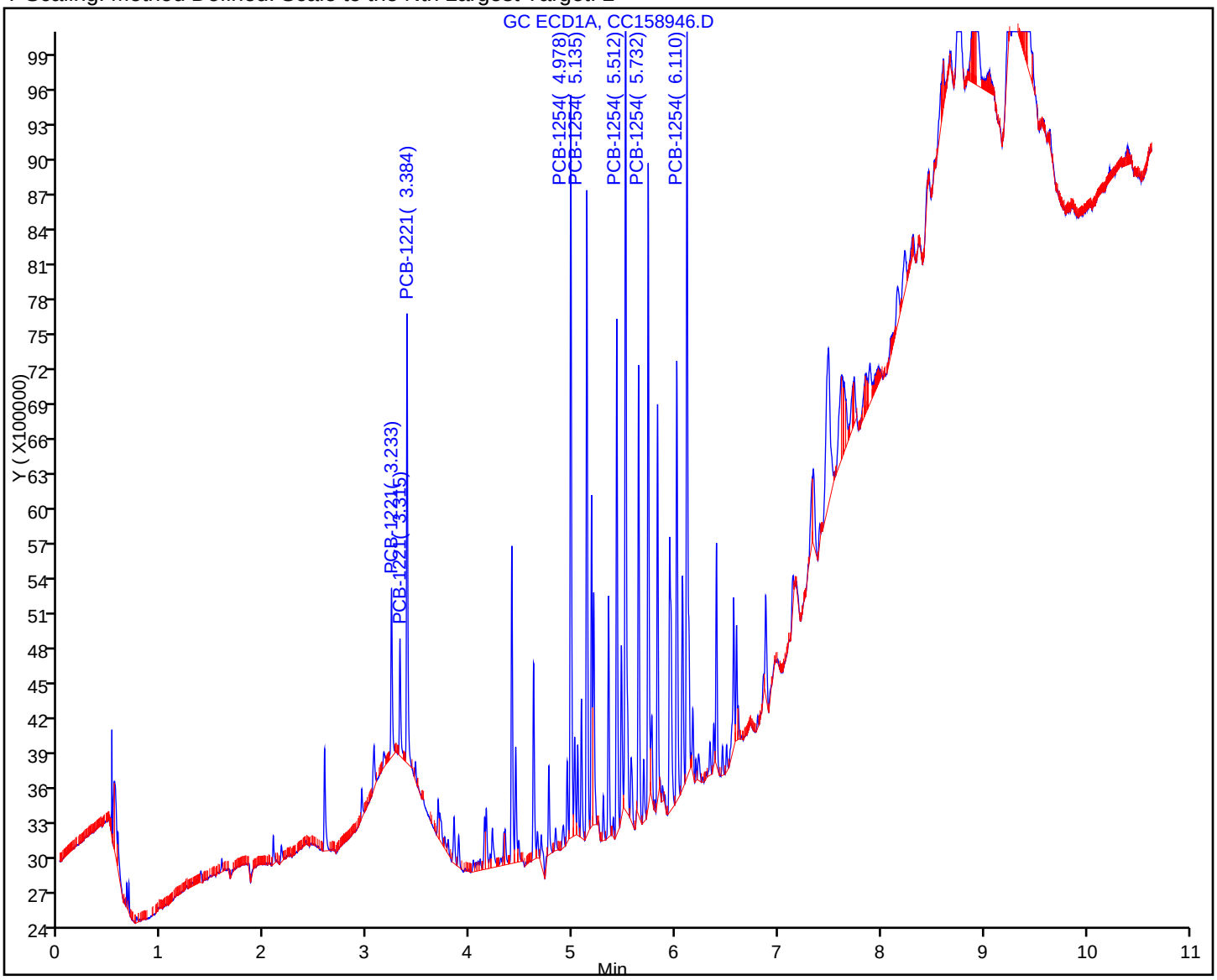
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.233	3.232	0.001	1383340	120.5		100.0	
1	2	3.315	3.315	0.000	902876	127.2	35.3- 95.3	65.3	
1	3	3.384	3.383	0.001	3302917	119.8	208.8- 268.8	238.8	
			Average of Peak Amounts =			122.5			
2	4	3.298	3.300	-0.002	3309852	110.0		100.0	
2	5	3.371	3.372	-0.001	1946170	107.0	28.8- 88.8	58.8	
2	6	3.434	3.435	-0.001	7886947	113.5	208.3- 268.3	238.3	
			Average of Peak Amounts =			110.1			
						RPD = 10.61			
8 PCB-1254									
1	1	4.978	4.991	-0.013	5935035	117.0		100.0	
1	2	5.135	5.150	-0.015	5064403	118.1	55.3- 115.3	85.3	
1	3	5.512	5.527	-0.015	7611239	125.3	98.2- 158.2	128.2	
1	4	5.732	5.748	-0.016	5022410	109.8	54.6- 114.6	84.6	
1	5	6.110	6.125	-0.015	6720706	126.7	83.2- 143.2	113.2	
			Average of Peak Amounts =			119.4			
2	6	5.065	5.067	-0.002	10454671	120.9		100.0	
2	7	5.281	5.297	-0.016	14515785	114.4	108.8- 168.8	138.8	
2	8	5.598	5.618	-0.020	17297194	122.9	135.4- 195.4	165.4	
2	9	5.858	5.879	-0.021	13620401	122.0	100.3- 160.3	130.3	
2	10	6.217	6.218	-0.001	14159225	117.4	105.4- 165.4	135.4	
			Average of Peak Amounts =			119.5			
						RPD = 0.11			
S 12 Polychlorinated biphenyls, Total									
1						241.9			
2						229.7			
						RPD = 5.17			

Report Date: 25-Aug-2011 12:33:19 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158946.D

Injection Date:	25-Aug-2011 11:44:01	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	3
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/3 Calibration Date: 08/25/2011 11:44

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158946.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Ave	30095	33099		110	100	10.0	20.0
PCB-1221 Peak 2	Ave	18196	19462		107	100	7.0	20.0
PCB-1221 Peak 3	Ave	69495	78869		114	100	13.5	20.0
PCB-1254 Peak 1	Ave	86471	104547		121	100	20.9*	20.0
PCB-1254 Peak 2	Ave	126844	145158		114	100	14.4	20.0
PCB-1254 Peak 3	Ave	140796	172972		123	100	22.9*	20.0
PCB-1254 Peak 4	Ave	111640	136204		122	100	22.0*	20.0
PCB-1254 Peak 5	Ave	120602	141592		117	100	17.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/3 Calibration Date: 08/25/2011 11:44

Instrument ID: TAC042 Calib Start Date: 03/03/2011 11:13

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 12:23

Lab File ID: CC158946.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1221 Peak 1	3.30	3.27	3.33
PCB-1221 Peak 2	3.37	3.34	3.40
PCB-1221 Peak 3	3.43	3.41	3.47
PCB-1254 Peak 1	5.07	5.04	5.10
PCB-1254 Peak 2	5.28	5.27	5.33
PCB-1254 Peak 3	5.60	5.59	5.65
PCB-1254 Peak 4	5.86	5.85	5.91
PCB-1254 Peak 5	6.22	6.19	6.25

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158946.D
Lims ID: ccv Client ID:
Inject. Date: 25-Aug-2011 11:44:01 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: bat Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 3
Lims Batch ID: 93679 Lims Sample ID: 3
Sublist: chrom-8082_TAC042*sub4
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m
Last Update: 25-Aug-2011 12:33:19 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC0022

First Level Reviewer: tadesseb Date: 25-Aug-2011 12:33:19

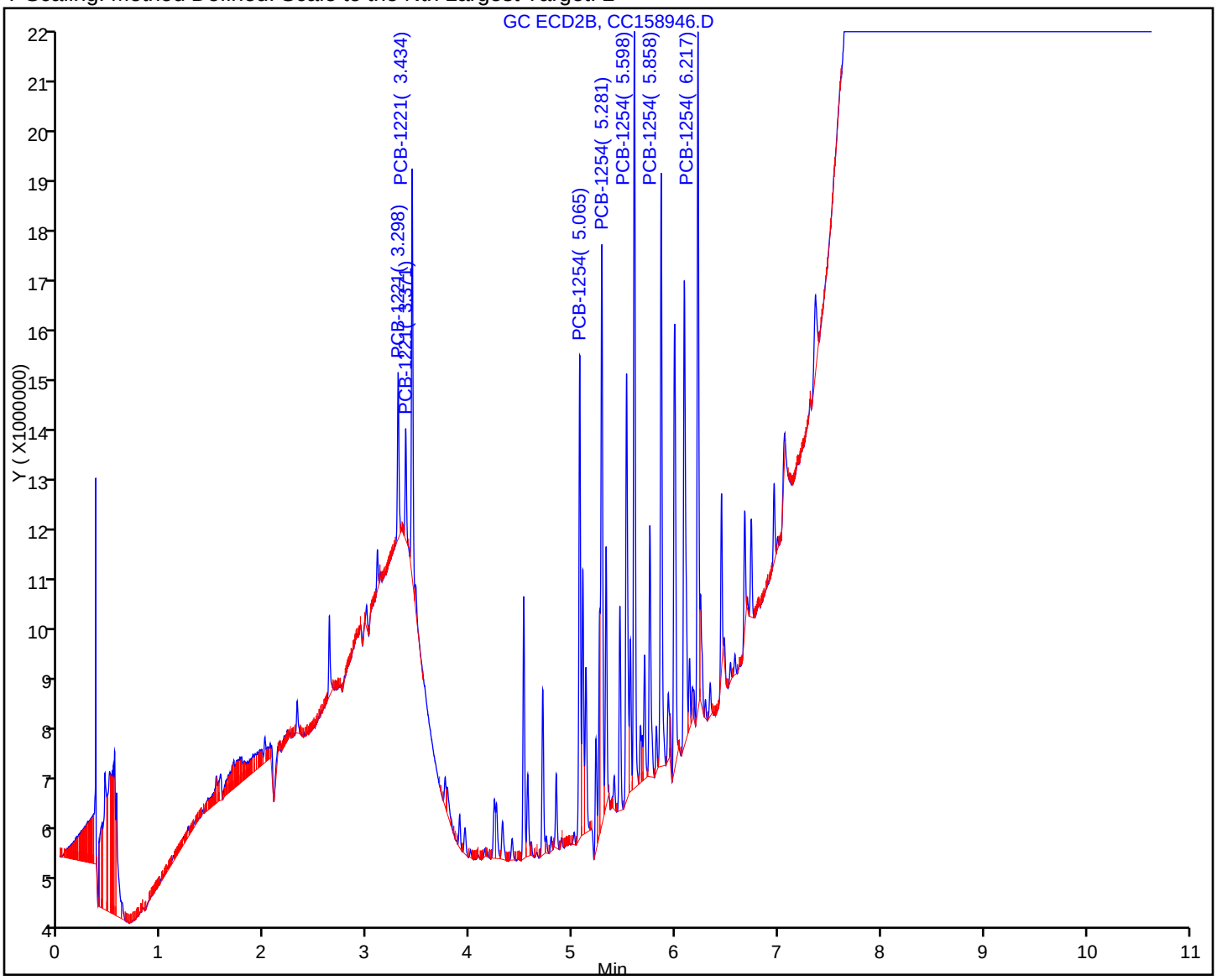
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
3 PCB-1221									
1	1	3.233	3.232	0.001	1383340	120.5		100.0	
1	2	3.315	3.315	0.000	902876	127.2	35.3- 95.3	65.3	
1	3	3.384	3.383	0.001	3302917	119.8	208.8- 268.8	238.8	
			Average of Peak Amounts =			122.5			
2	4	3.298	3.300	-0.002	3309852	110.0		100.0	
2	5	3.371	3.372	-0.001	1946170	107.0	28.8- 88.8	58.8	
2	6	3.434	3.435	-0.001	7886947	113.5	208.3- 268.3	238.3	
			Average of Peak Amounts =			110.1			
						RPD = 10.61			
8 PCB-1254									
1	1	4.978	4.991	-0.013	5935035	117.0		100.0	
1	2	5.135	5.150	-0.015	5064403	118.1	55.3- 115.3	85.3	
1	3	5.512	5.527	-0.015	7611239	125.3	98.2- 158.2	128.2	
1	4	5.732	5.748	-0.016	5022410	109.8	54.6- 114.6	84.6	
1	5	6.110	6.125	-0.015	6720706	126.7	83.2- 143.2	113.2	
			Average of Peak Amounts =			119.4			
2	6	5.065	5.067	-0.002	10454671	120.9		100.0	
2	7	5.281	5.297	-0.016	14515785	114.4	108.8- 168.8	138.8	
2	8	5.598	5.618	-0.020	17297194	122.9	135.4- 195.4	165.4	
2	9	5.858	5.879	-0.021	13620401	122.0	100.3- 160.3	130.3	
2	10	6.217	6.218	-0.001	14159225	117.4	105.4- 165.4	135.4	
			Average of Peak Amounts =			119.5			
						RPD = 0.11			
S 12 Polychlorinated biphenyls, Total									
1						241.9			
2						229.7			
						RPD = 5.17			

Report Date: 25-Aug-2011 12:33:20 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158946.D

Injection Date:	25-Aug-2011 11:44:01	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	3
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/7 Calibration Date: 08/25/2011 12:46

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158950.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	26078	29342		113	100	12.5	20.0
PCB-1016 Peak 2	Ave	25989	25915		99.7	100	-0.3	20.0
PCB-1016 Peak 3	Ave	46857	54077		115	100	15.4	20.0
PCB-1016 Peak 4	Lin1		22350		104	100	4.2	20.0
PCB-1016 Peak 5	Ave	26749	30872		115	100	15.4	20.0
PCB-1260 Peak 1	Ave	51857	50403		97.2	100	-2.8	20.0
PCB-1260 Peak 2	Lin1		56661		98.0	100	-2.0	20.0
PCB-1260 Peak 3	Lin1		72465		101	100	0.6	20.0
PCB-1260 Peak 4	Ave	91214	86198		94.5	100	-5.5	20.0
PCB-1260 Peak 5	Ave	71029	68590		96.6	100	-3.4	20.0
Tetrachloro-m-xylene	Ave	1031214	1049965		10.2	10.0	1.8	20.0
DCB Decachlorobiphenyl	Lin1		848843		11.5	10.0	15.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/7 Calibration Date: 08/25/2011 12:46

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-2 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158950.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.69	3.66	3.72
PCB-1016 Peak 2	3.89	3.85	3.91
PCB-1016 Peak 3	4.15	4.12	4.18
PCB-1016 Peak 4	4.40	4.37	4.43
PCB-1016 Peak 5	4.62	4.58	4.64
PCB-1260 Peak 1	5.64	5.61	5.67
PCB-1260 Peak 2	5.82	5.79	5.85
PCB-1260 Peak 3	6.11	6.08	6.14
PCB-1260 Peak 4	6.59	6.56	6.62
PCB-1260 Peak 5	6.88	6.85	6.91
Tetrachloro-m-xylene	3.00	2.97	3.03
DCB Decachlorobiphenyl	7.66	7.63	7.69

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D
Lims ID: ccv Client ID:
Inject. Date: 25-Aug-2011 12:46:04 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: bat Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 93679 Lims Sample ID: 7
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m
Last Update: 25-Aug-2011 13:51:12 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC0022

First Level Reviewer: tadesseb Date: 25-Aug-2011 13:51:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.000	2.998	0.002	10500594	10.2			
2	2	3.095	3.097	-0.002	28511977	10.9			
						RPD = 6.99			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.662	7.662	0.000	8488425	11.5			M
2	2	7.756	7.754	0.002	21640312	10.6			
						RPD = 8.17			
6 PCB-1016									M
1	1	3.687	3.687	0.000	2934194	112.5		100.0	M
1	2	3.886	3.884	0.002	2591518	99.7	58.3- 118.3	88.3	
1	3	4.154	4.152	0.002	5407659	115.4	154.3- 214.3	184.3	
1	4	4.403	4.401	0.002	2234994	104.2	46.2- 106.2	76.2	
1	5	4.616	4.613	0.003	3087172	115.4	75.2- 135.2	105.2	
			Average of Peak Amounts =			109.4			
2	6	3.757	3.757	0.000	6391493	99.7		100.0	M
2	7	3.950	3.952	-0.002	6216563	103.0	67.3- 127.3	97.3	
2	8	4.258	4.259	-0.001	13805191	109.7	186.0- 246.0	216.0	
2	9	4.523	4.524	-0.001	4335831	92.4	37.8- 97.8	67.8	
2	10	4.709	4.708	0.001	5602120	96.4	57.6- 117.6	87.6	
			Average of Peak Amounts =			100.3			
						RPD = 8.77			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.638	5.635	0.003	5040286	97.2		100.0	
1	2	5.821	5.819	0.002	5666124	98.0	82.4- 142.4	112.4	
1	3	6.108	6.107	0.001	7246481	100.6	113.8- 173.8	143.8	
1	4	6.591	6.589	0.002	8619757	94.5	141.0- 201.0	171.0	
1	5	6.878	6.877	0.001	6858960	96.6	106.1- 166.1	136.1	
			Average of Peak Amounts =			97.4			
2	6	5.751	5.750	0.001	12324876	107.3		100.0	
2	7	5.990	5.990	0.000	17602371	101.3	112.8- 172.8	142.8	
2	8	6.218	6.218	0.000	18114892	109.2	117.0- 177.0	147.0	
2	9	6.739	6.738	0.001	21317984	99.2	143.0- 203.0	173.0	
2	10	6.958	6.957	0.001	12343895	95.2	70.2- 130.2	100.2	
			Average of Peak Amounts =			102.4			
						RPD = 5.05			
S 12 Polychlorinated biphenyls, Total									
1						206.8			
2						202.7			
						RPD = 2.03			

QC Flag Legend

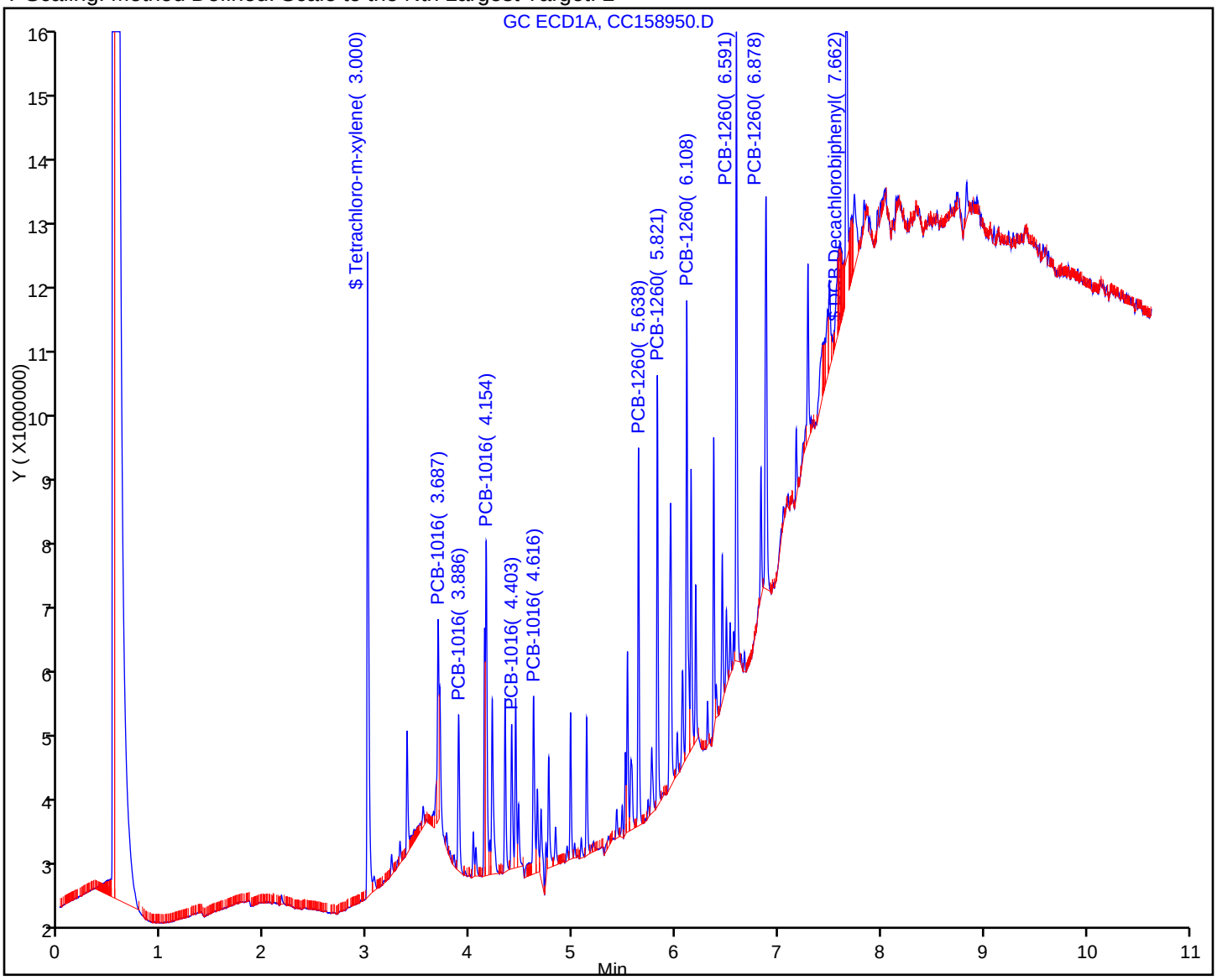
Review Flags
M - Manually Integrated

Report Date: 25-Aug-2011 13:51:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D

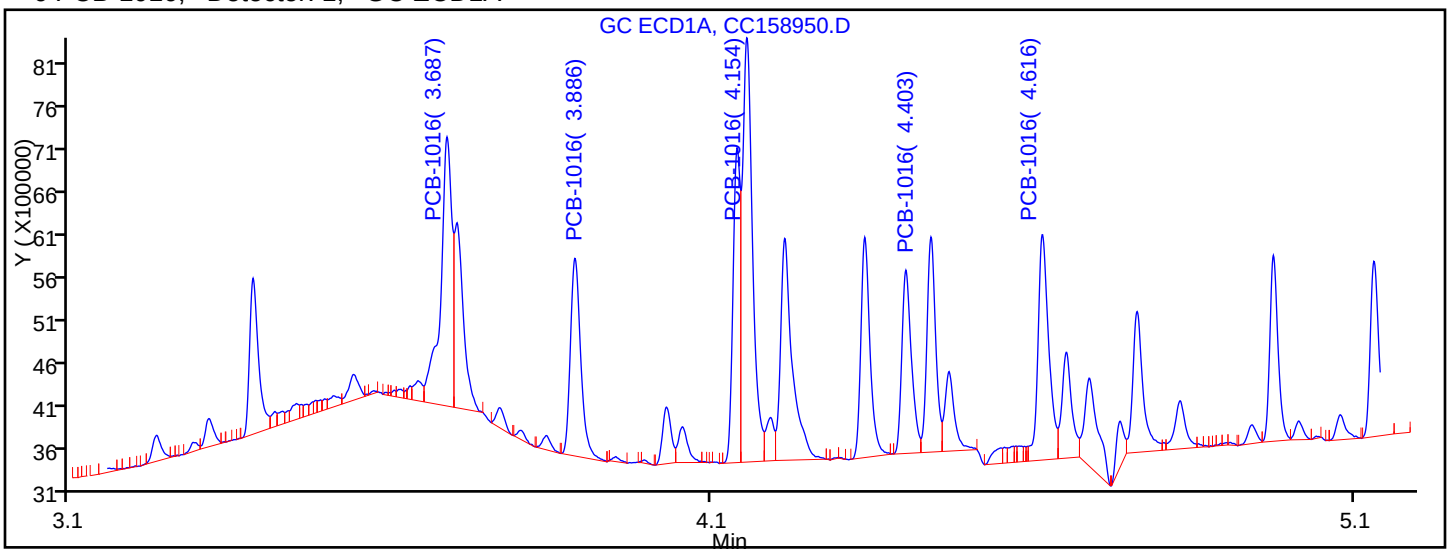
Injection Date:	25-Aug-2011 12:46:04	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	7
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



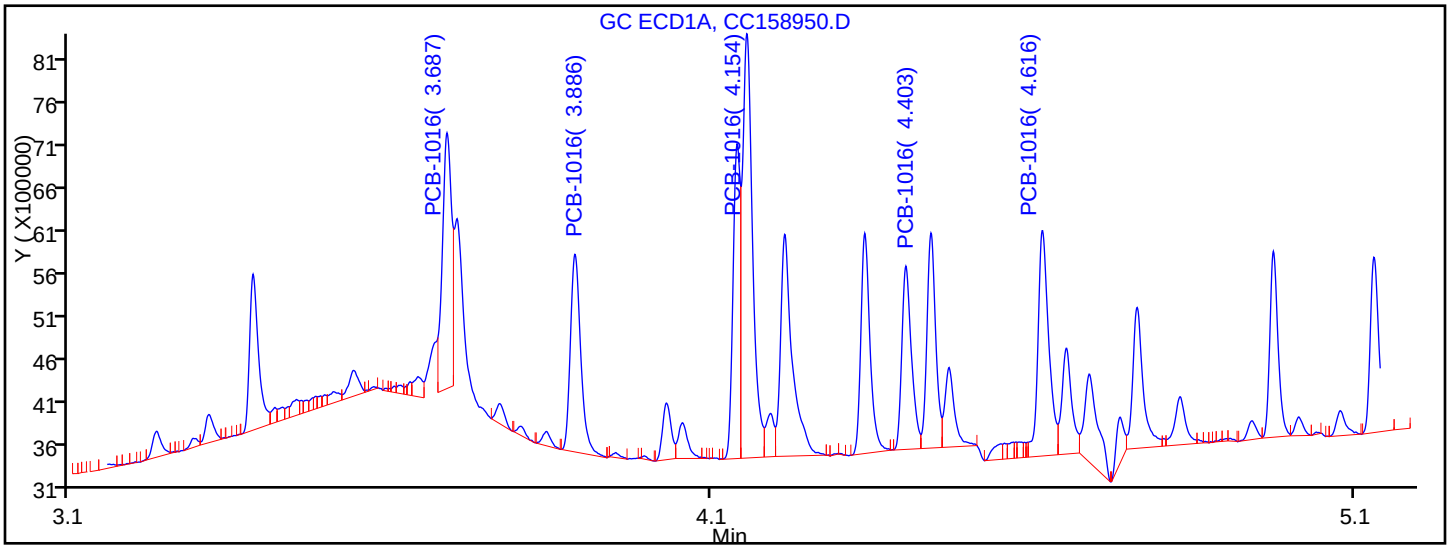
Report Date: 25-Aug-2011 13:51:12 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D
Injection Date: 25-Aug-2011 12:46:04 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 93679 Lims Sample ID: 7
Operator ID: bat Injection Vol: 1.00 ul

6 PCB-1016, Detector: 1, GC ECD1A



Processing Integration Results

RT = 3.687	Response = 3874208	M
RT = 3.886	Response = 2591518	
RT = 4.154	Response = 5407659	
RT = 4.403	Response = 2234994	
RT = 4.616	Response = 3087172	



Manual Integration Results

RT = 3.687	Response = 2934194	M
RT = 3.886	Response = 2591518	
RT = 4.154	Response = 5407659	
RT = 4.403	Response = 2234994	
RT = 4.616	Response = 3087172	

Reviewer: tadesseb, 25-Aug-2011 13:48:03
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

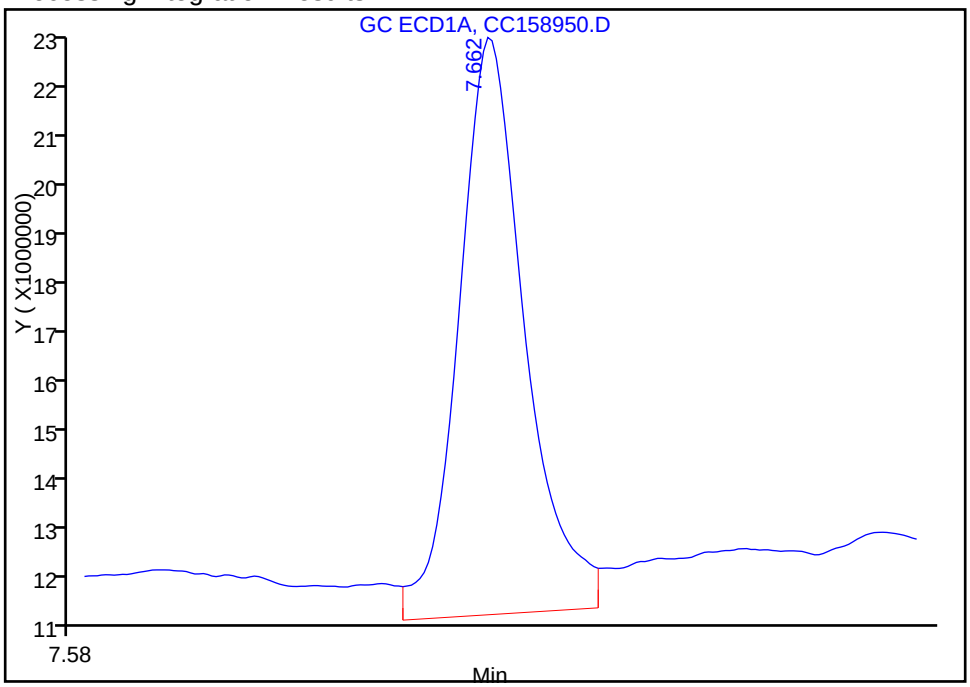
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D		
Injection Date:	25-Aug-2011 12:46:04	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	7
Operator ID:	bat	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 1, Type: quant, RT: 7.66, Det: GC ECD1A

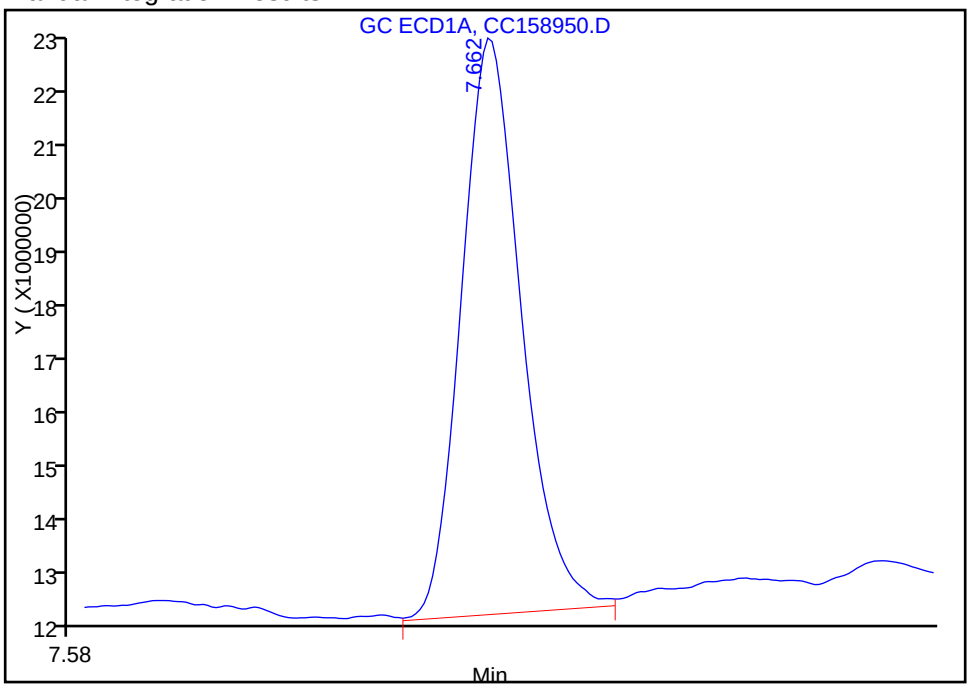
Processing Integration Results

RT: 7.66
Response: 9834666
Amount: 13.458949



Manual Integration Results

RT: 7.66
Response: 8488425
Amount: 11.536618



Reviewer: tadesseb, 25-Aug-2011 13:48:03
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/7 Calibration Date: 08/25/2011 12:46

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158950.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	64080	63915		99.7	100	-0.3	20.0
PCB-1016 Peak 2	Lin1		62166		103	100	3.0	20.0
PCB-1016 Peak 3	Ave	125788	138052		110	100	9.7	20.0
PCB-1016 Peak 4	Ave	46934	43358		92.4	100	-7.6	20.0
PCB-1016 Peak 5	Ave	58141	56021		96.4	100	-3.6	20.0
PCB-1260 Peak 1	Ave	114814	123249		107	100	7.3	20.0
PCB-1260 Peak 2	Lin1		176024		101	100	1.3	20.0
PCB-1260 Peak 3	Ave	165857	181149		109	100	9.2	20.0
PCB-1260 Peak 4	Ave	214975	213180		99.2	100	-0.8	20.0
PCB-1260 Peak 5	Ave	129719	123439		95.2	100	-4.8	20.0
Tetrachloro-m-xylene	Ave	2610963	2850941		10.9	10.0	9.2	20.0
DCB Decachlorobiphenyl	Ave	2035658	2164031		10.6	10.0	6.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: CCV 580-93679/7 Calibration Date: 08/25/2011 12:46

Instrument ID: TAC042 Calib Start Date: 03/03/2011 09:34

GC Column: ZB-MR-1 ID: 0.25(mm) Calib End Date: 03/03/2011 10:45

Lab File ID: CC158950.D

Analyte	RT	RT WINDOW	
		TO	FROM
PCB-1016 Peak 1	3.76	3.73	3.79
PCB-1016 Peak 2	3.95	3.92	3.98
PCB-1016 Peak 3	4.26	4.23	4.29
PCB-1016 Peak 4	4.52	4.49	4.55
PCB-1016 Peak 5	4.71	4.68	4.74
PCB-1260 Peak 1	5.75	5.72	5.78
PCB-1260 Peak 2	5.99	5.96	6.02
PCB-1260 Peak 3	6.22	6.19	6.25
PCB-1260 Peak 4	6.74	6.71	6.77
PCB-1260 Peak 5	6.96	6.93	6.99
Tetrachloro-m-xylene	3.10	3.07	3.13
DCB Decachlorobiphenyl	7.76	7.72	7.78

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D
Lims ID: ccv Client ID:
Inject. Date: 25-Aug-2011 12:46:04 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: ccv
Misc. Info.:
Operator: bat Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 2
Lims Batch ID: 93679 Lims Sample ID: 7
Sublist: chrom-8082_TAC042*sub1
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110825-18339.b\8082_TAC042.m
Last Update: 25-Aug-2011 13:51:12 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC0022

First Level Reviewer: tadesseb Date: 25-Aug-2011 13:51:12

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.000	2.998	0.002	10500594	10.2			
2	2	3.095	3.097	-0.002	28511977	10.9			
						RPD = 6.99			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.662	7.662	0.000	8488425	11.5			M
2	2	7.756	7.754	0.002	21640312	10.6			
						RPD = 8.17			
6 PCB-1016									M
1	1	3.687	3.687	0.000	2934194	112.5		100.0	M
1	2	3.886	3.884	0.002	2591518	99.7	58.3- 118.3	88.3	
1	3	4.154	4.152	0.002	5407659	115.4	154.3- 214.3	184.3	
1	4	4.403	4.401	0.002	2234994	104.2	46.2- 106.2	76.2	
1	5	4.616	4.613	0.003	3087172	115.4	75.2- 135.2	105.2	
			Average of Peak Amounts =			109.4			
2	6	3.757	3.757	0.000	6391493	99.7		100.0	M
2	7	3.950	3.952	-0.002	6216563	103.0	67.3- 127.3	97.3	
2	8	4.258	4.259	-0.001	13805191	109.7	186.0- 246.0	216.0	
2	9	4.523	4.524	-0.001	4335831	92.4	37.8- 97.8	67.8	
2	10	4.709	4.708	0.001	5602120	96.4	57.6- 117.6	87.6	
			Average of Peak Amounts =			100.3			
						RPD = 8.77			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.638	5.635	0.003	5040286	97.2		100.0	
1	2	5.821	5.819	0.002	5666124	98.0	82.4- 142.4	112.4	
1	3	6.108	6.107	0.001	7246481	100.6	113.8- 173.8	143.8	
1	4	6.591	6.589	0.002	8619757	94.5	141.0- 201.0	171.0	
1	5	6.878	6.877	0.001	6858960	96.6	106.1- 166.1	136.1	
			Average of Peak Amounts =			97.4			
2	6	5.751	5.750	0.001	12324876	107.3		100.0	
2	7	5.990	5.990	0.000	17602371	101.3	112.8- 172.8	142.8	
2	8	6.218	6.218	0.000	18114892	109.2	117.0- 177.0	147.0	
2	9	6.739	6.738	0.001	21317984	99.2	143.0- 203.0	173.0	
2	10	6.958	6.957	0.001	12343895	95.2	70.2- 130.2	100.2	
			Average of Peak Amounts =			102.4			
						RPD = 5.05			
S 12 Polychlorinated biphenyls, Total									
1						206.8			
2						202.7			
						RPD = 2.03			

QC Flag Legend

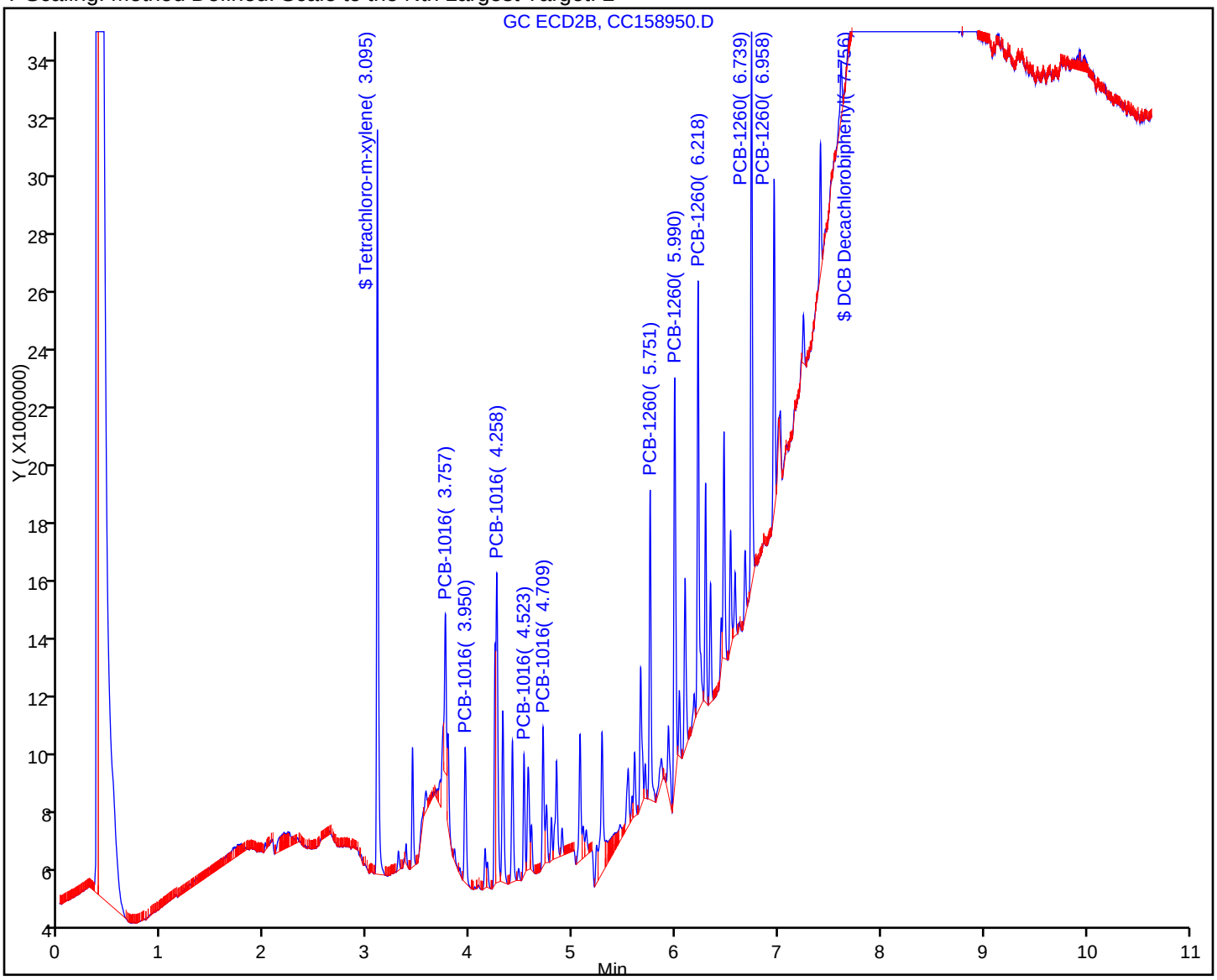
Review Flags
M - Manually Integrated

Report Date: 25-Aug-2011 13:51:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D

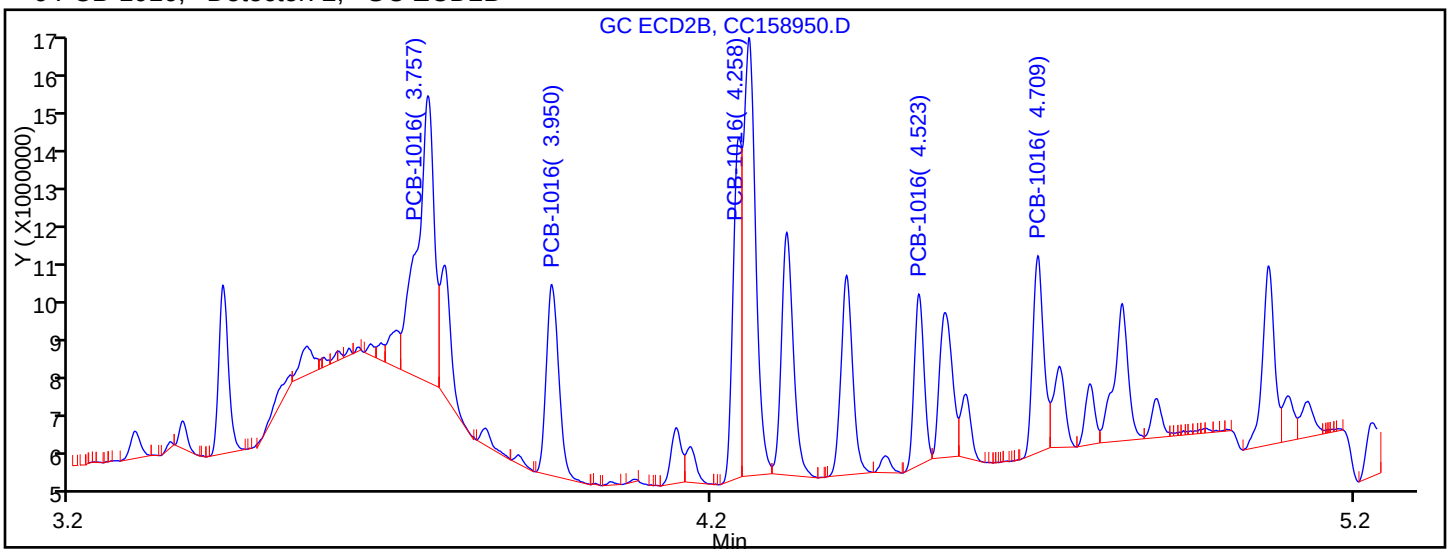
Injection Date:	25-Aug-2011 12:46:04	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	93679	Lims Sample ID:	7
Operator ID:	bat	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



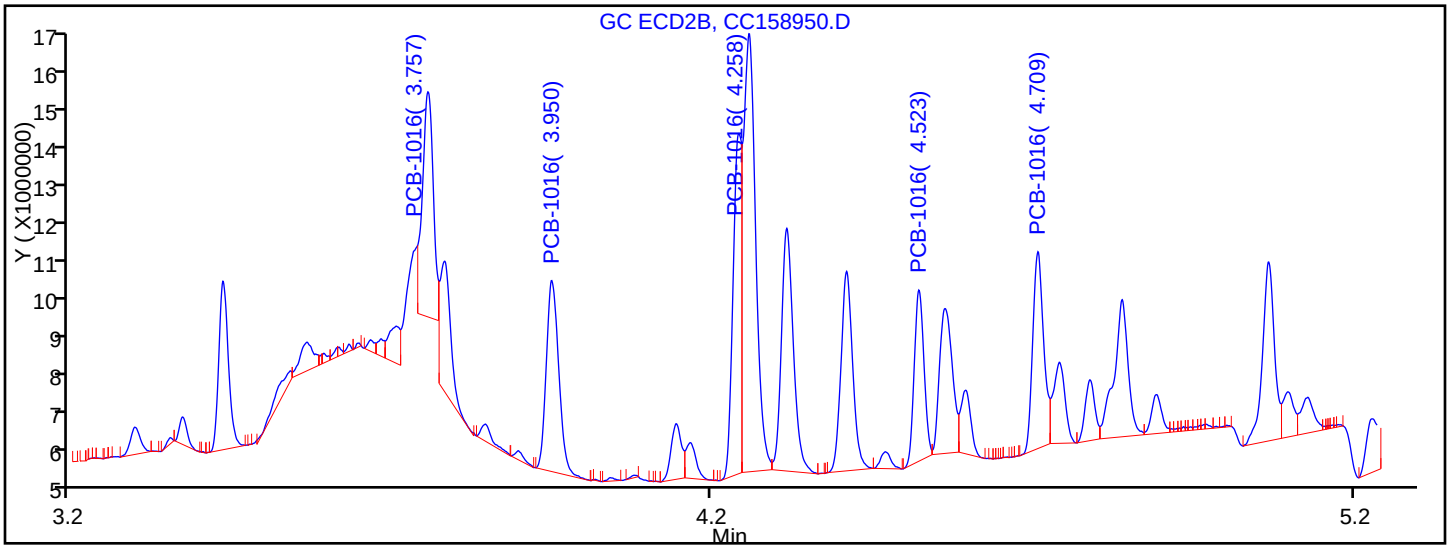
Report Date: 25-Aug-2011 13:51:13 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110825-18339.b\CC158950.D
Injection Date: 25-Aug-2011 12:46:04 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 93679 Lims Sample ID: 7
Operator ID: bat Injection Vol: 1.00 ul

6 PCB-1016, Detector: 2, GC ECD2B



Processing Integration Results

RT = 3.757 Response = 12740606 M
RT = 3.950 Response = 6216563
RT = 4.258 Response = 13805191
RT = 4.523 Response = 4335831
RT = 4.709 Response = 5602120



Manual Integration Results

RT = 3.757 Response = 6391493 M
RT = 3.950 Response = 6216563
RT = 4.258 Response = 13805191
RT = 4.523 Response = 4335831
RT = 4.709 Response = 5602120

Reviewer: tadesseb, 25-Aug-2011 13:48:03
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 580-92867/1-A

Matrix: Solid Lab File ID: CC158653.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3550B Date Extracted: 08/15/2011 15:58

Sample wt/vol: 10(g) Date Analyzed: 08/16/2011 11:15

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-MR-1 ID: 0.25(mm)

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

Analysis Batch No.: 92903 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.0050	U	0.010	0.0050	0.0032
11104-28-2	PCB-1221	0.0080	U	0.010	0.0080	0.0080
11141-16-5	PCB-1232	0.0080	U	0.010	0.0080	0.0070
53469-21-9	PCB-1242	0.0050	U	0.010	0.0050	0.0021
12672-29-6	PCB-1248	0.0030	U	0.010	0.0030	0.0030
11097-69-1	PCB-1254	0.0050	U	0.010	0.0050	0.0021
11096-82-5	PCB-1260	0.0050	U	0.010	0.0050	0.0030

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	85	M	45-155
2051-24-3	DCB Decachlorobiphenyl	110	M	60-125

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158653.D		
Lims ID:	MB 580-92867/1-A	Client ID:	
Inject. Date:	16-Aug-2011 11:15:48	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB 580-92867/1-A		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	6
Lims Batch ID:	92903	Lims Sample ID:	4
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m		
Last Update:	16-Aug-2011 10:10:56	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 16-Aug-2011 12:04:36

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									M
1	1	3.015	3.014	0.001	18316051	17.8			
2	2	3.106	3.109	-0.003	44372494	17.0			M
						RPD = 4.41			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.675	7.672	0.003	14313304	19.9			
2	2	7.770	7.772	-0.002	44701300	22.0			M
						RPD = 10.07			

QC Flag Legend

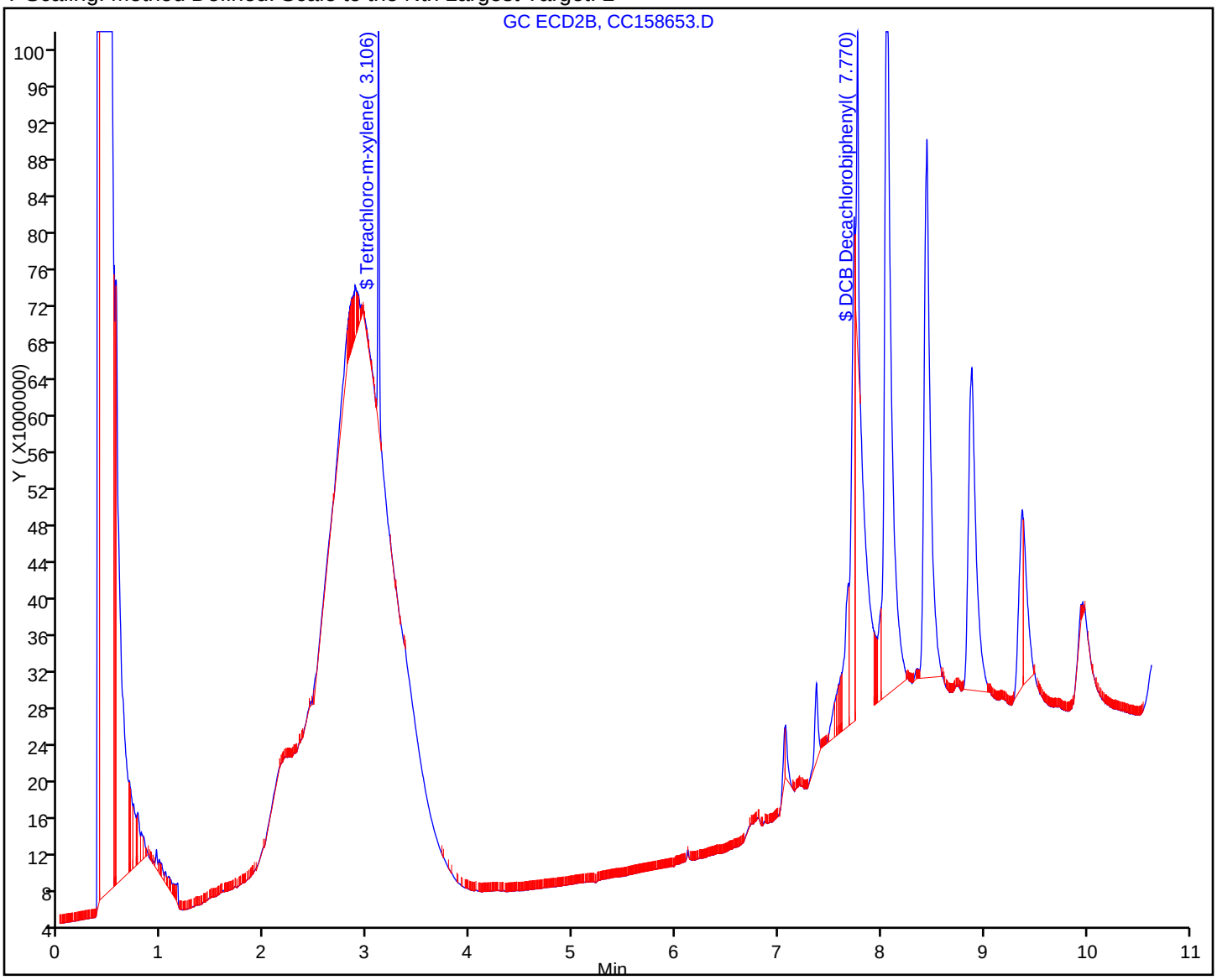
Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 12:04:37 Chrom Revision: 1.2 13-Jul-2011 10:43:06

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158653.D

Injection Date:	16-Aug-2011 11:15:48	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	4
Operator ID:	mam	Injection Vol:	1.00 ul

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



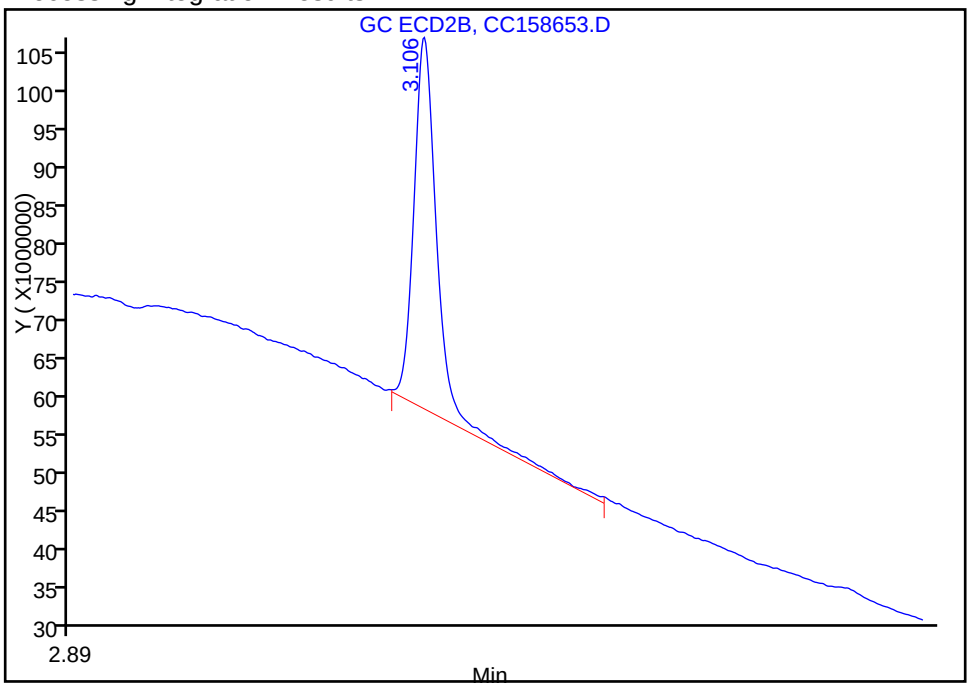
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158653.D		
Injection Date:	16-Aug-2011 11:15:48	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	4
Operator ID:	mam	Injection Vol:	1.00 ul

$ 1 Tetrachloro-m-xylene, Signal: 2, Type: quant, RT: 3.11, Det: GC ECD2B

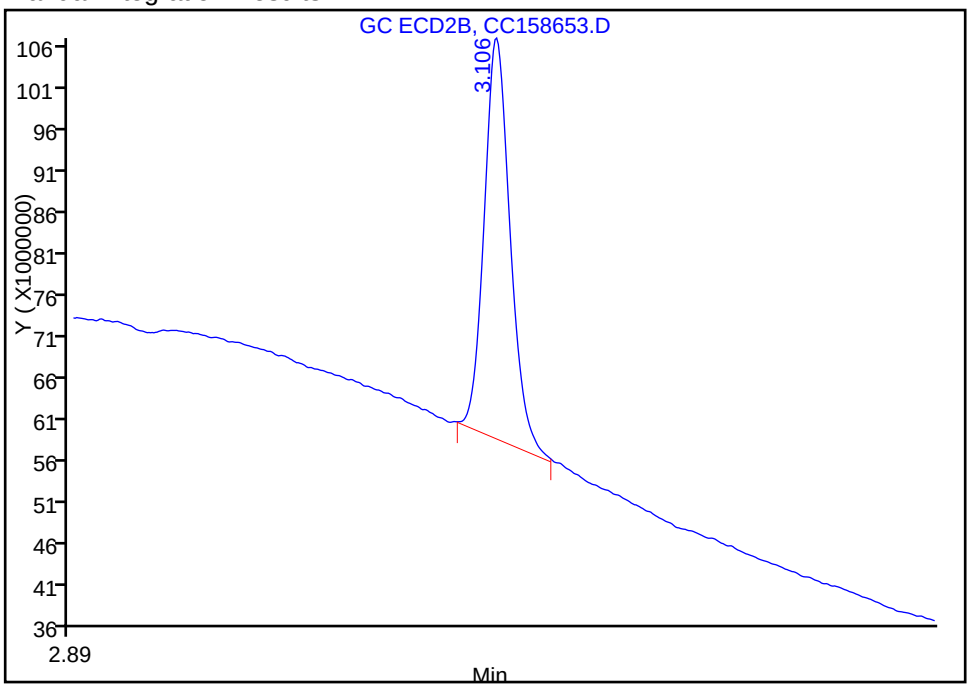
Processing Integration Results

RT: 3.11
Response: 48392946
Amount: 18.534522



Manual Integration Results

RT: 3.11
Response: 44372494
Amount: 16.994687



Reviewer: muirm, 16-Aug-2011 12:04:36
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

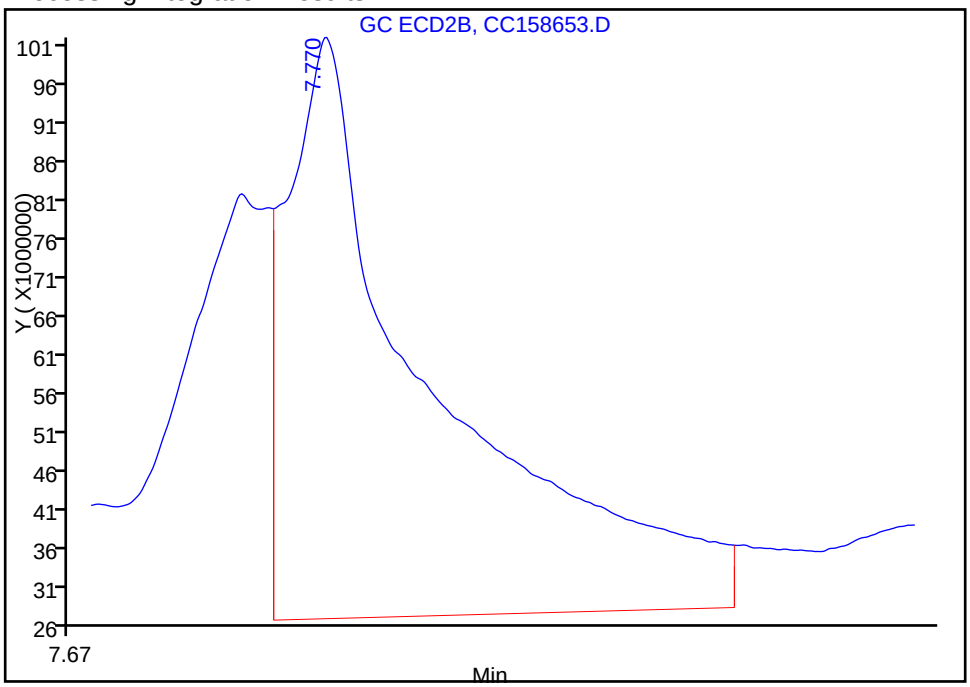
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158653.D		
Injection Date:	16-Aug-2011 11:15:48	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	4
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

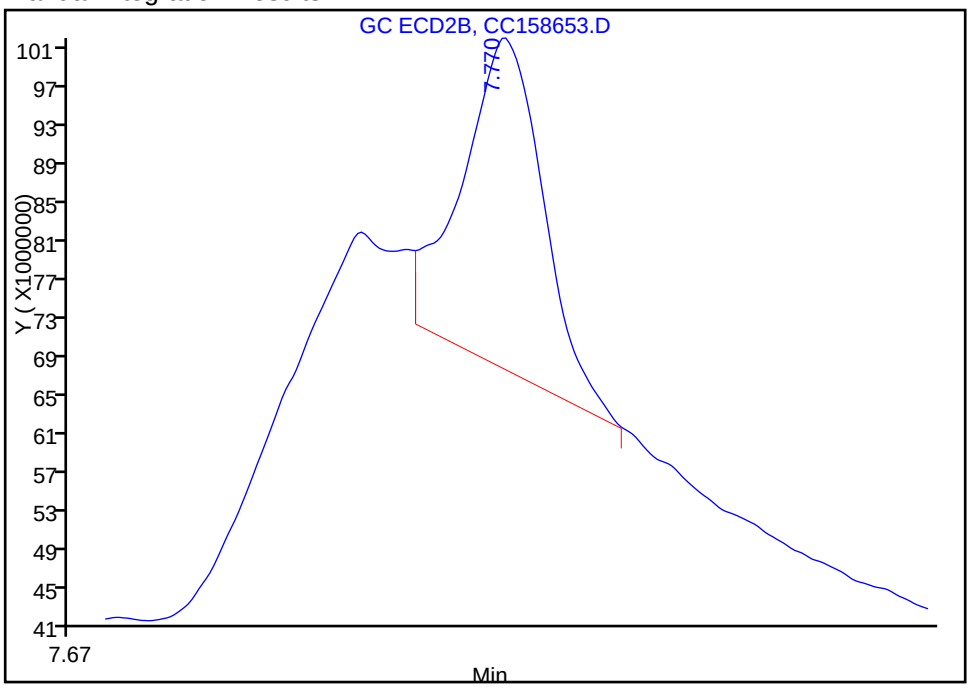
Processing Integration Results

RT: 7.77
Response: 296544451
Amount: 145.6750



Manual Integration Results

RT: 7.77
Response: 44701300
Amount: 21.959135



Reviewer: muirm, 16-Aug-2011 12:04:36
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 580-92867/2-A

Matrix: Solid Lab File ID: CC158657.D

Analysis Method: 8082/DOD Date Collected:

Extraction Method: 3550B Date Extracted: 08/15/2011 15:58

Sample wt/vol: 10(g) Date Analyzed: 08/16/2011 12:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-MR-1 ID: 0.25(mm)

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

Analysis Batch No.: 92903 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.0880		0.010	0.0050	0.0032
11096-82-5	PCB-1260	0.0919		0.010	0.0050	0.0030

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		45-155
2051-24-3	DCB Decachlorobiphenyl	74	M	60-125

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158657.D		
Lims ID:	LCS 580-92867/2-A	Client ID:	
Inject. Date:	16-Aug-2011 12:58:12	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	lcs 580-92867/2-a		
Misc. Info.:			
Operator:	mam	Instrument ID:	TAC042
Vol. Injected:	1.0000	ALS Bottle#:	10
Lims Batch ID:	92903	Lims Sample ID:	12
Detector 1 :	GC ECD1A		
Detector 2 :	GC ECD2B		
Method:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m		
Last Update:	16-Aug-2011 14:20:47	Calib Date:	03-Mar-2011 19:24:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D		
Limit Group:	8082 PCBs		
Integrator:	Falcon		
Process Host:	TAITAC009		

First Level Reviewer: muirm Date: 16-Aug-2011 14:33:39

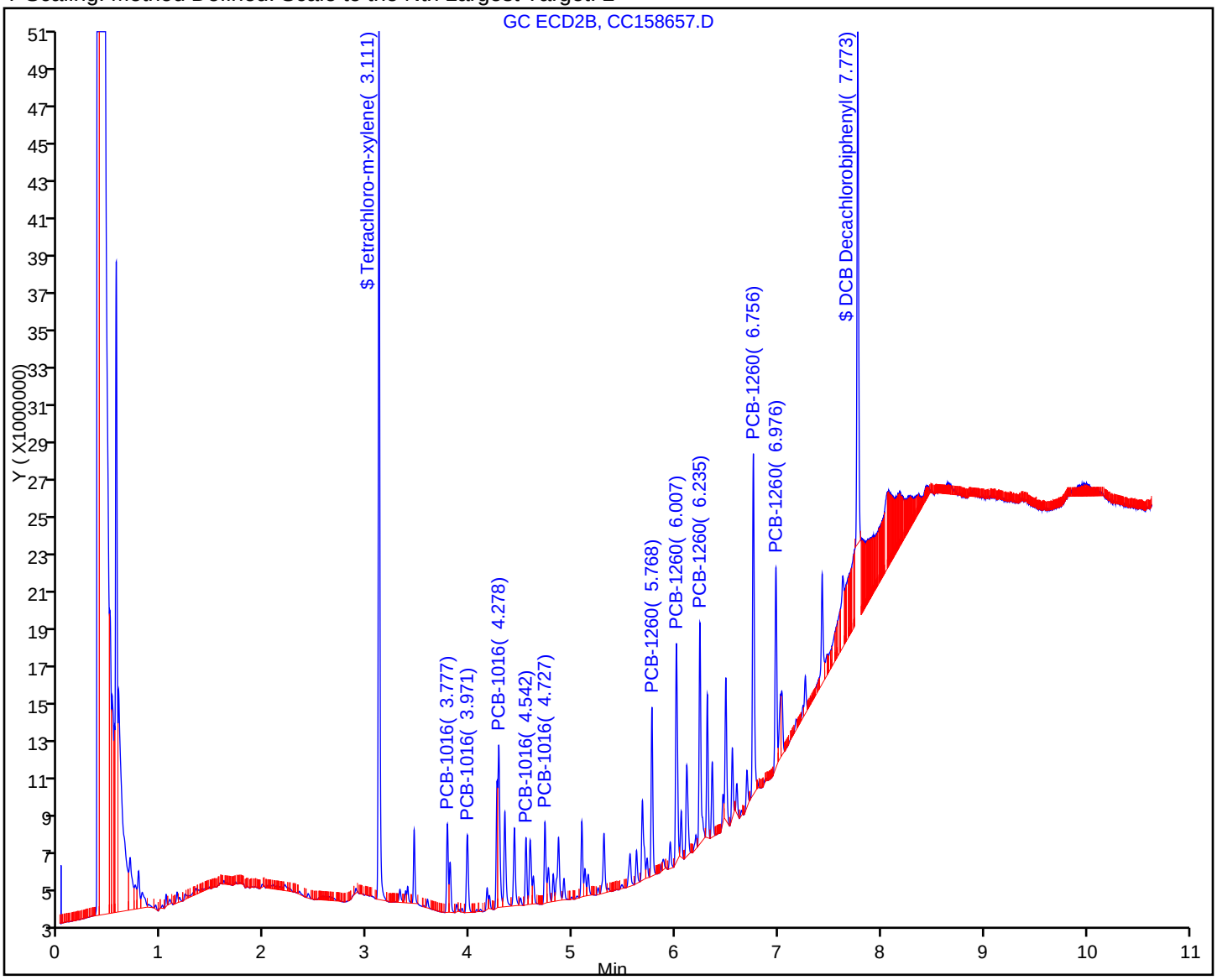
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.014	3.014	0.000	18796500	18.2			
2	2	3.111	3.109	0.002	48209338	18.5			
						RPD = 1.29			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.673	7.672	0.001	13784204	19.1			
2	2	7.773	7.772	0.001	30200982	14.8			M
						RPD = 25.12			
6 PCB-1016									
1	1	3.701	3.701	0.000	2174165	83.4		100.0	
1	2	3.902	3.901	0.001	2294552	88.3	73.7- 133.7	105.5	
1	3	4.169	4.169	0.000	4139272	88.3	166.7- 226.7	190.4	
1	4	4.417	4.416	0.001	1971768	91.1	74.6- 134.6	90.7	
1	5	4.630	4.628	0.002	2294001	85.8	83.1- 143.1	105.5	
			Average of Peak Amounts =			87.4			
2	6	3.777	3.776	0.001	5400635	84.3		100.0	
2	7	3.971	3.969	0.002	5459366	89.8	63.4- 123.4	101.1	
2	8	4.278	4.276	0.002	11607365	92.3	159.7- 219.7	214.9	
2	9	4.542	4.540	0.002	4017707	85.6	35.6- 95.6	74.4	
2	10	4.727	4.724	0.003	5116014	88.0	36.3- 96.3	94.7	
			Average of Peak Amounts =			88.0			
						RPD = 0.71			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.651	5.649	0.002	4494942	86.7		100.0	
1	2	5.835	5.833	0.002	5234812	90.4	87.6- 147.6	116.5	
1	3	6.122	6.119	0.003	5482364	74.9	113.4- 173.4	122.0	
1	4	6.604	6.602	0.002	8541268	93.6	137.9- 197.9	190.0	
1	5	6.892	6.888	0.004	6851057	96.5	100.0- 160.0	152.4	
			Average of Peak Amounts =			88.4			
2	6	5.768	5.766	0.002	10120697	88.1		100.0	
2	7	6.007	6.005	0.002	14869728	85.1	107.8- 167.8	146.9	
2	8	6.235	6.234	0.001	14557012	87.8	84.6- 144.6	143.8	
2	9	6.756	6.754	0.002	21831504	101.6	146.0- 206.0	215.7	
2	10	6.976	6.974	0.002	12551164	96.8	73.4- 133.4	124.0	
			Average of Peak Amounts =			91.9			
						RPD = 3.83			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 14:33:40 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158657.D
Injection Date: 16-Aug-2011 12:58:12 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 12
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



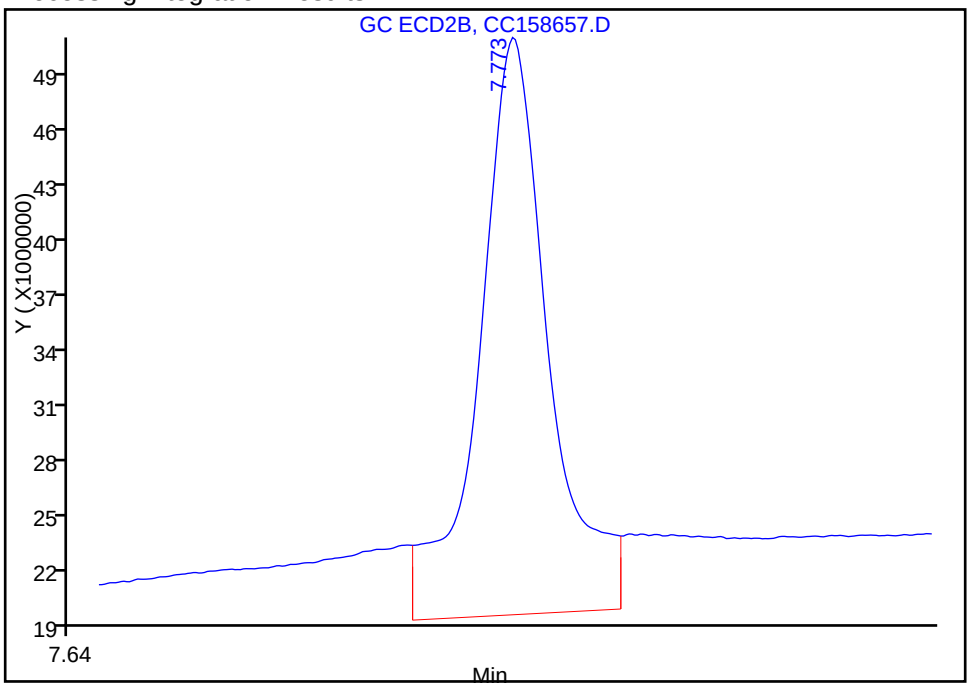
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158657.D		
Injection Date:	16-Aug-2011 12:58:12	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	12
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

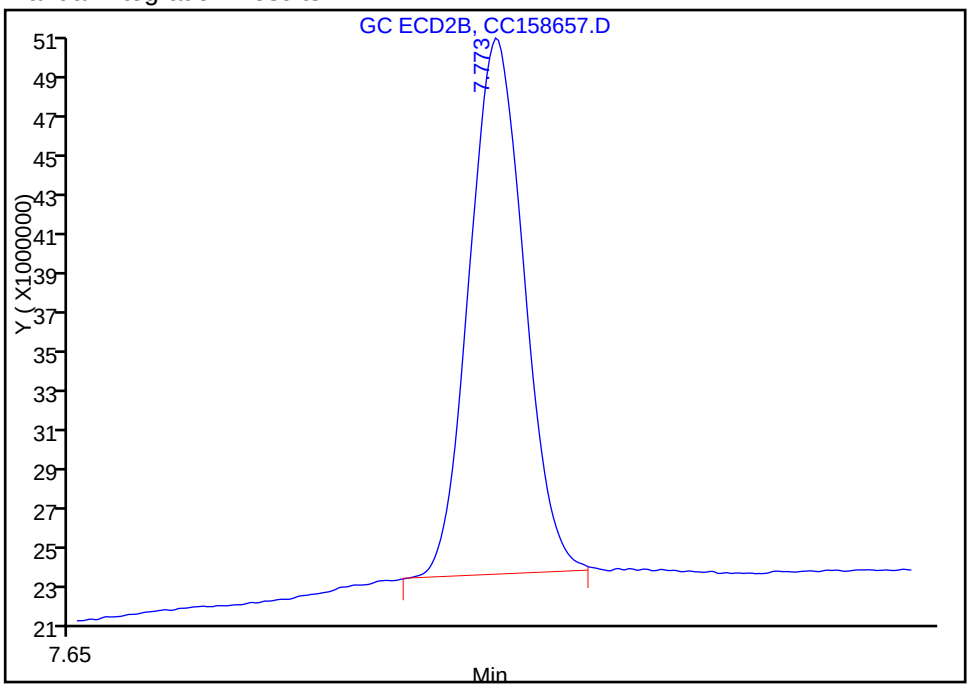
Processing Integration Results

RT: 7.77
Response: 45697736
Amount: 22.448626



Manual Integration Results

RT: 7.77
Response: 30200982
Amount: 14.835977



Reviewer: muirm, 16-Aug-2011 14:33:39
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Seattle | Job No.: 580-27645-1

SDG No.:

Client Sample ID: | Lab Sample ID: 580-28005-A-21-B MS

Matrix: Solid | Lab File ID: CC158659.D

Analysis Method: 8082/DOD | Date Collected: 08/01/2011 10:00

Extraction Method: 3550B | Date Extracted: 08/15/2011 15:58

Sample wt/vol: 10.6229(g) | Date Analyzed: 08/16/2011 13:26

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-MR-1 ID: 0.25(mm)

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

Analysis Batch No.: 92903 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.0633		0.0094	0.0047	0.0030
11104-28-2	PCB-1221	0.0075	U	0.0094	0.0075	0.0075
11141-16-5	PCB-1232	0.0075	U	0.0094	0.0075	0.0066
53469-21-9	PCB-1242	0.0047	U	0.0094	0.0047	0.0020
12672-29-6	PCB-1248	0.0028	U	0.0094	0.0028	0.0028
11097-69-1	PCB-1254	0.0047	U	0.0094	0.0047	0.0020
11096-82-5	PCB-1260	0.0745		0.0094	0.0047	0.0028

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	71		45-155
2051-24-3	DCB Decachlorobiphenyl	72	M	60-125

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158659.D
Lims ID: 580-28005-A-21-B MS Client ID:
Inject. Date: 16-Aug-2011 13:26:26 Dil. Factor: 1.0000
Sample Type: MS
Sample ID: 580-28005-a-21-b ms
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 12
Lims Batch ID: 92903 Lims Sample ID: 9
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 14:20:47 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 16-Aug-2011 14:34:37

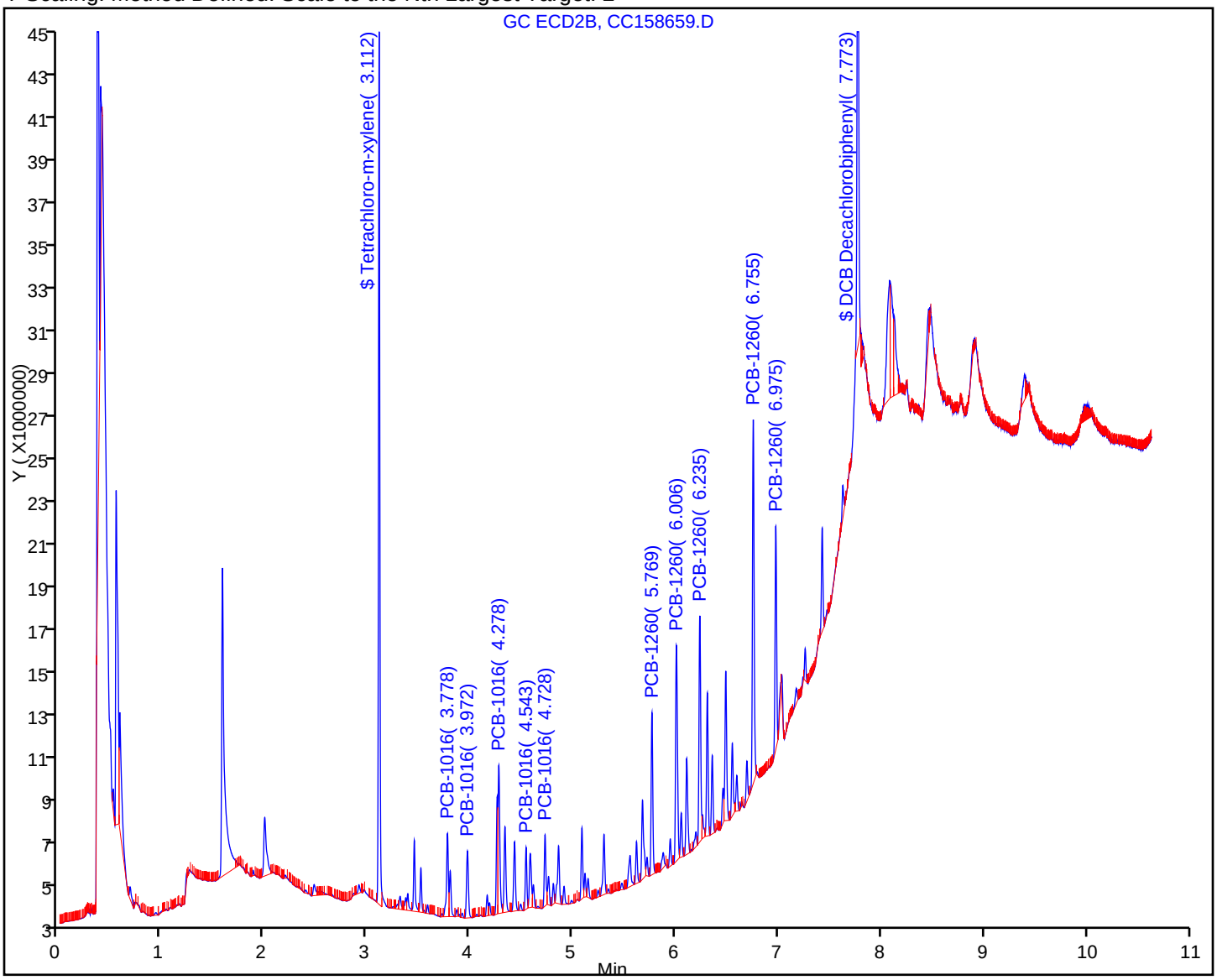
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.015	3.014	0.001	14476160	14.0			
2	2	3.112	3.109	0.003	37024110	14.2			
						RPD = 1.01			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.673	7.672	0.001	12407883	17.1			
2	2	7.773	7.772	0.001	29417388	14.5			M
						RPD = 16.98			
6 PCB-1016									
1	1	3.702	3.701	0.001	1803774	69.2		100.0	
1	2	3.903	3.901	0.002	1783868	68.6	73.7- 133.7	98.9	
1	3	4.170	4.169	0.001	3126740	66.7	166.7- 226.7	173.3	
1	4	4.417	4.416	0.001	1565076	70.8	74.6- 134.6	86.8	
1	5	4.629	4.628	0.001	1809954	67.7	83.1- 143.1	100.3	
			Average of Peak Amounts =			68.6			
2	6	3.778	3.776	0.002	4910580	76.6		100.0	
2	7	3.972	3.969	0.003	4093675	65.9	63.4- 123.4	83.4	
2	8	4.278	4.276	0.002	8301932	66.0	159.7- 219.7	169.1	
2	9	4.543	4.540	0.003	2981231	63.5	35.6- 95.6	60.7	
2	10	4.728	4.724	0.004	3728252	64.1	36.3- 96.3	75.9	
			Average of Peak Amounts =			67.2			
						RPD = 2.01			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.649	5.649	0.000	3769670	72.7		100.0	
1	2	5.834	5.833	0.001	4326505	74.2	87.6- 147.6	114.8	
1	3	6.120	6.119	0.001	5032446	68.4	113.4- 173.4	133.5	
1	4	6.602	6.602	0.000	6738597	73.9	137.9- 197.9	178.8	
1	5	6.890	6.888	0.002	5252184	73.9	100.0- 160.0	139.3	
			Average of Peak Amounts =			72.6			
2	6	5.769	5.766	0.003	8373842	72.9		100.0	
2	7	6.006	6.005	0.001	13032219	74.2	107.8- 167.8	155.6	
2	8	6.235	6.234	0.001	12115514	73.0	84.6- 144.6	144.7	
2	9	6.755	6.754	0.001	19279276	89.7	146.0- 206.0	230.2	
2	10	6.975	6.974	0.001	11087125	85.5	73.4- 133.4	132.4	
			Average of Peak Amounts =			79.1			
						RPD = 8.50			
S 12 Polychlorinated biphenyls, Total									
1						141.2			
2						146.3			
						RPD = 3.53			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 14:34:38 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158659.D
Injection Date: 16-Aug-2011 13:26:26 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 9
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



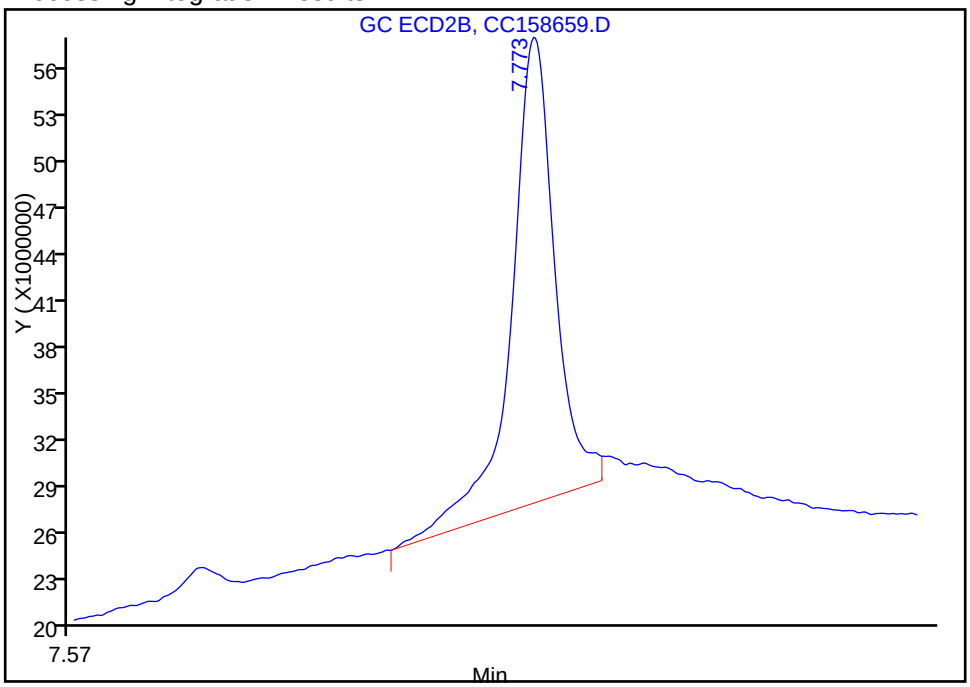
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158659.D		
Injection Date:	16-Aug-2011 13:26:26	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	9
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

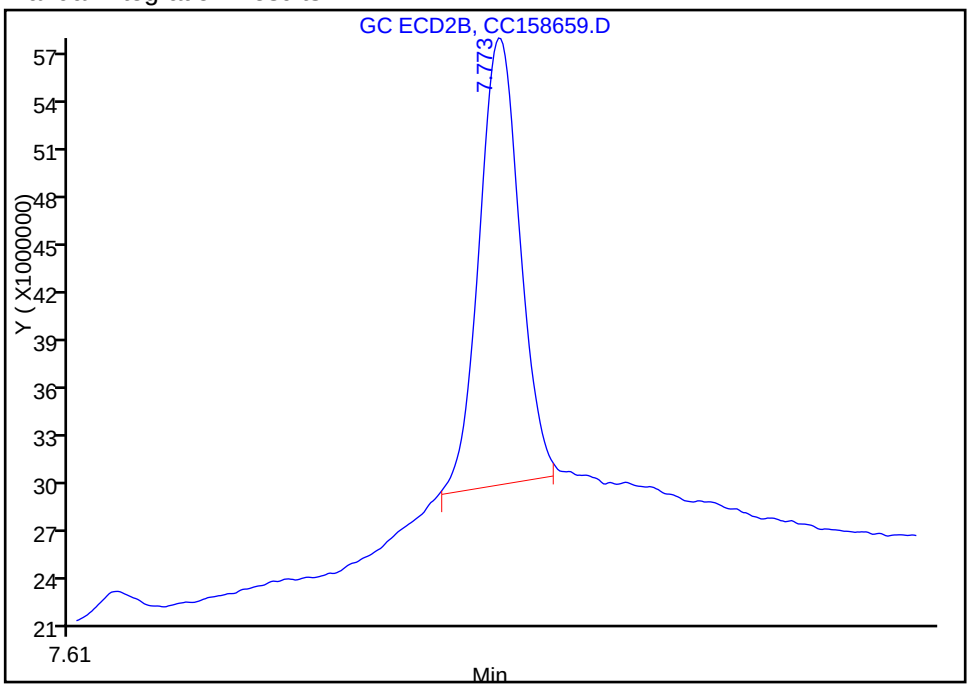
Processing Integration Results

RT: 7.77
Response: 39481626
Amount: 19.395015



Manual Integration Results

RT: 7.77
Response: 29417388
Amount: 14.451043



Reviewer: muirm, 16-Aug-2011 14:34:37
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Client Sample ID: Lab Sample ID: 580-28005-A-21-C MSD

Matrix: Solid Lab File ID: CC158660.D

Analysis Method: 8082/DOD Date Collected: 08/01/2011 10:00

Extraction Method: 3550B Date Extracted: 08/15/2011 15:58

Sample wt/vol: 10.0849(g) Date Analyzed: 08/16/2011 13:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-MR-1 ID: 0.25(mm)

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

Analysis Batch No.: 92903 Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
12674-11-2	PCB-1016	0.0712		0.0099	0.0050	0.0032
11104-28-2	PCB-1221	0.0079	U	0.0099	0.0079	0.0079
11141-16-5	PCB-1232	0.0079	U	0.0099	0.0079	0.0069
53469-21-9	PCB-1242	0.0050	U	0.0099	0.0050	0.0021
12672-29-6	PCB-1248	0.0030	U	0.0099	0.0030	0.0030
11097-69-1	PCB-1254	0.0050	U	0.0099	0.0050	0.0021
11096-82-5	PCB-1260	0.0811		0.0099	0.0050	0.0030

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	77		45-155
2051-24-3	DCB Decachlorobiphenyl	74	M	60-125

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158660.D
Lims ID: 580-28005-A-21-C MSD Client ID:
Inject. Date: 16-Aug-2011 13:41:34 Dil. Factor: 1.0000
Sample Type: MSD
Sample ID: 580-28005-a-21-c msd
Misc. Info.:
Operator: mam Instrument ID: TAC042
Vol. Injected: 1.0000 ALS Bottle#: 13
Lims Batch ID: 92903 Lims Sample ID: 10
Detector 1 : GC ECD1A
Detector 2 : GC ECD2B

Method: \\tacsvr5\ChromData\TAC042\20110816-18096.b\8082_TAC042.m
Last Update: 16-Aug-2011 14:20:47 Calib Date: 03-Mar-2011 19:24:02
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\tacsvr5\ChromData\TAC042\20110303-14838.b\CC155085.D
Limit Group: 8082 PCBs
Integrator: Falcon
Process Host: TAITAC009

First Level Reviewer: muirm Date: 16-Aug-2011 14:37:47

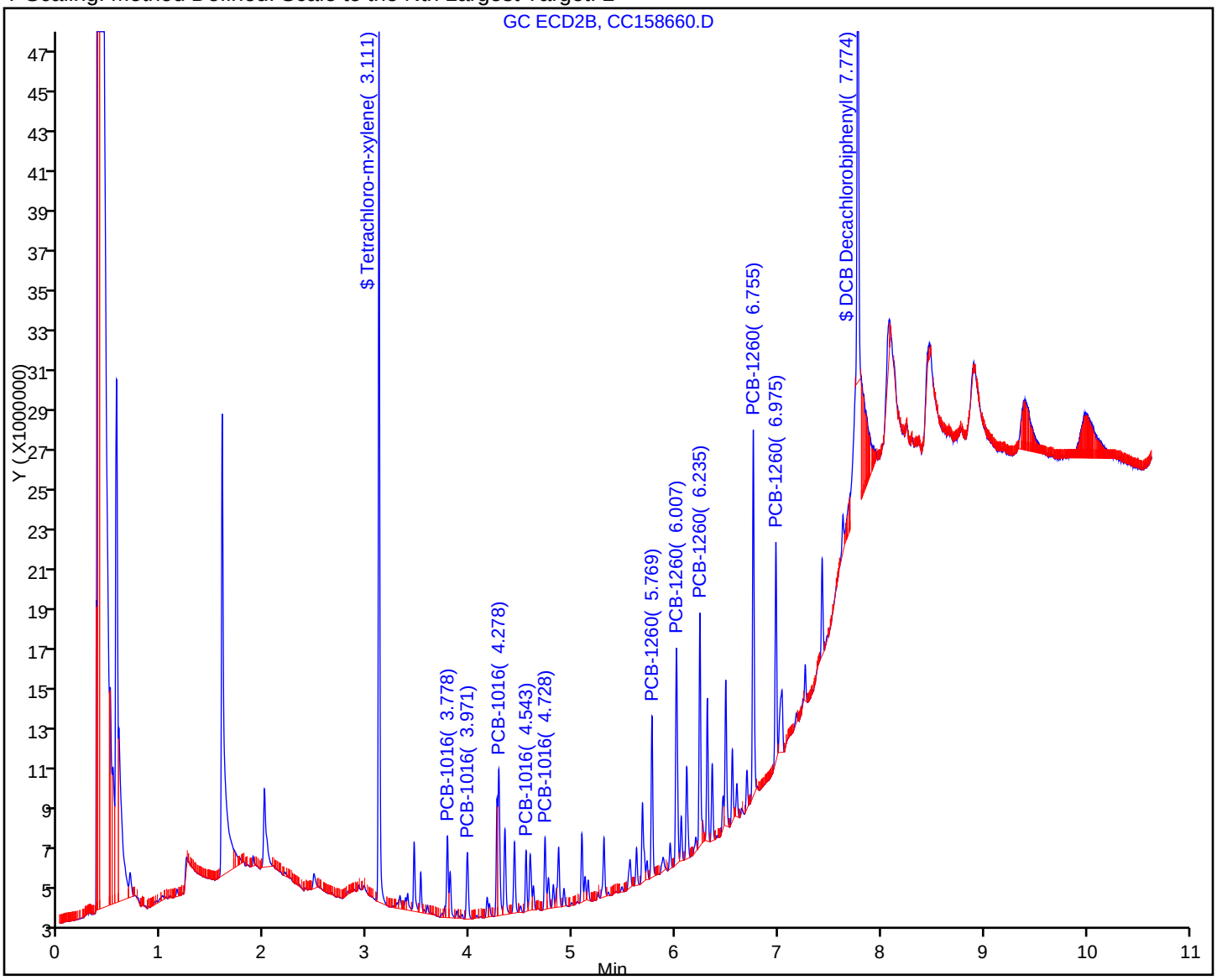
Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
$ 1 Tetrachloro-m-xylene									
1	1	3.015	3.014	0.001	15673808	15.2			
2	2	3.111	3.109	0.002	40410796	15.5			
						RPD = 1.81			
$ 2 DCB Decachlorobiphenyl									M
1	1	7.674	7.672	0.002	12726747	17.6			
2	2	7.774	7.772	0.002	30155991	14.8			M
						RPD = 17.13			
6 PCB-1016									
1	1	3.703	3.701	0.002	1928583	74.0		100.0	
1	2	3.904	3.901	0.003	1916750	73.8	73.7- 133.7	99.4	
1	3	4.172	4.169	0.003	3361886	71.7	166.7- 226.7	174.3	
1	4	4.419	4.416	0.003	1607064	72.9	74.6- 134.6	83.3	
1	5	4.631	4.628	0.003	1916369	71.6	83.1- 143.1	99.4	
			Average of Peak Amounts =			72.8			
2	6	3.778	3.776	0.002	4657064	72.7		100.0	
2	7	3.971	3.969	0.002	4379831	70.9	63.4- 123.4	94.0	
2	8	4.278	4.276	0.002	9532648	75.8	159.7- 219.7	204.7	
2	9	4.543	4.540	0.003	3207399	68.3	35.6- 95.6	68.9	
2	10	4.728	4.724	0.004	4138306	71.2	36.3- 96.3	88.9	
			Average of Peak Amounts =			71.8			
						RPD = 1.41			

Det	Sig	RT	EXP RT	DLT RT	Response	On-Col Amt ug/L	Ratio Range	Ratio	Flags
9 PCB-1260									
1	1	5.651	5.649	0.002	3869163	74.6		100.0	
1	2	5.835	5.833	0.002	4499752	77.3	87.6- 147.6	116.3	
1	3	6.121	6.119	0.002	5227236	71.2	113.4- 173.4	135.1	
1	4	6.604	6.602	0.002	7033247	77.1	137.9- 197.9	181.8	
1	5	6.891	6.888	0.003	5415421	76.2	100.0- 160.0	140.0	
			Average of Peak Amounts =			75.3			
2	6	5.769	5.766	0.003	8745552	76.2		100.0	
2	7	6.007	6.005	0.002	13428895	76.6	107.8- 167.8	153.6	
2	8	6.235	6.234	0.001	12653454	76.3	84.6- 144.6	144.7	
2	9	6.755	6.754	0.001	19846702	92.3	146.0- 206.0	226.9	
2	10	6.975	6.974	0.001	11398020	87.9	73.4- 133.4	130.3	
			Average of Peak Amounts =			81.8			
						RPD = 8.33			
S 12 Polychlorinated biphenyls, Total									
1						148.1			
2						153.6			
						RPD = 3.66			

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 16-Aug-2011 14:37:48 Chrom Revision: 1.2 13-Jul-2011 10:43:06
Data File: \\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158660.D
Injection Date: 16-Aug-2011 13:41:34 Limit Group: 8082 PCBs
Client ID: Instrument ID: TAC042
Lims Batch ID: 92903 Lims Sample ID: 10
Operator ID: mam Injection Vol: 1.00 ul
Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



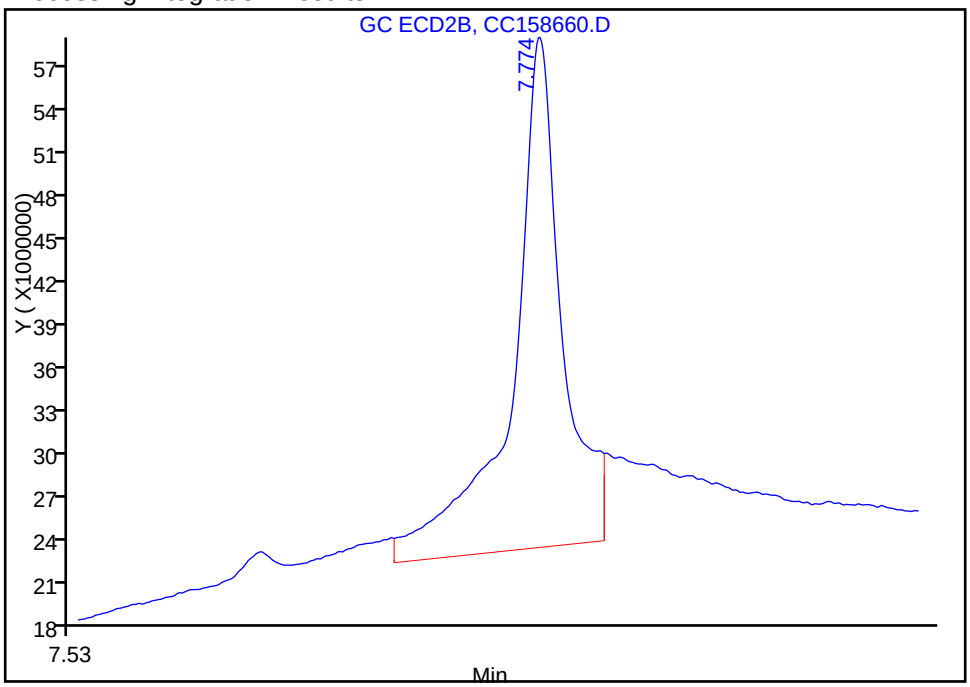
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC042\20110816-18096.b\CC158660.D		
Injection Date:	16-Aug-2011 13:41:34	Limit Group:	8082 PCBs
Client ID:		Instrument ID:	TAC042
Lims Batch ID:	92903	Lims Sample ID:	10
Operator ID:	mam	Injection Vol:	1.00 ul

$ 2 DCB Decachlorobiphenyl, Signal: 2, Type: quant, RT: 7.77, Det: GC ECD2B

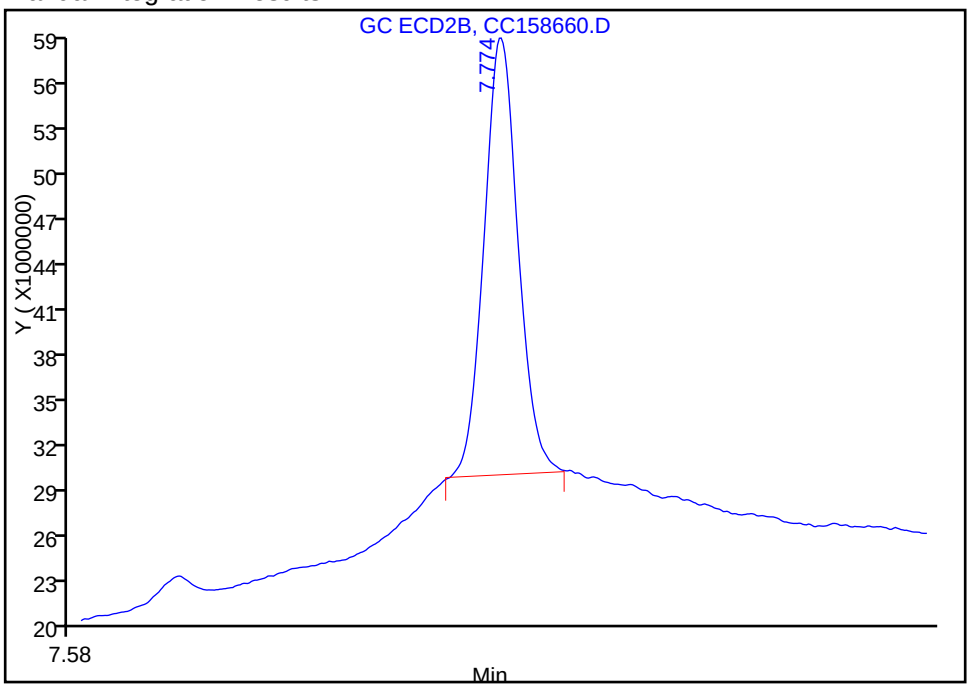
Processing Integration Results

RT: 7.77
Response: 62463182
Amount: 30.684510



Manual Integration Results

RT: 7.77
Response: 30155991
Amount: 14.813875



Reviewer: muirm, 16-Aug-2011 14:37:47
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Start Date: 03/03/2011 09:34

Analysis Batch Number: 81563 End Date: 03/03/2011 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 580-81563/2		03/03/2011 09:34	1	CC155047.D	ZB-MR-2 0.25(mm)
IC 580-81563/2		03/03/2011 09:34	1	CC155047.D	ZB-MR-1 0.25(mm)
IC 580-81563/3		03/03/2011 09:48	1	CC155048.D	ZB-MR-2 0.25(mm)
IC 580-81563/3		03/03/2011 09:48	1	CC155048.D	ZB-MR-1 0.25(mm)
IC 580-81563/4		03/03/2011 10:02	1	CC155049.D	ZB-MR-2 0.25(mm)
IC 580-81563/4		03/03/2011 10:02	1	CC155049.D	ZB-MR-1 0.25(mm)
IC 580-81563/5		03/03/2011 10:16	1	CC155050.D	ZB-MR-2 0.25(mm)
IC 580-81563/5		03/03/2011 10:16	1	CC155050.D	ZB-MR-1 0.25(mm)
IC 580-81563/6		03/03/2011 10:30	1	CC155051.D	ZB-MR-2 0.25(mm)
IC 580-81563/6		03/03/2011 10:30	1	CC155051.D	ZB-MR-1 0.25(mm)
IC 580-81563/7		03/03/2011 10:45	1	CC155052.D	ZB-MR-2 0.25(mm)
IC 580-81563/7		03/03/2011 10:45	1	CC155052.D	ZB-MR-1 0.25(mm)
ICV 580-81563/8		03/03/2011 10:59	1	CC155053.D	ZB-MR-2 0.25(mm)
ICV 580-81563/8		03/03/2011 10:59	1	CC155053.D	ZB-MR-1 0.25(mm)
IC 580-81563/9		03/03/2011 11:13	1	CC155054.D	ZB-MR-2 0.25(mm)
IC 580-81563/9		03/03/2011 11:13	1	CC155054.D	ZB-MR-1 0.25(mm)
IC 580-81563/10		03/03/2011 11:27	1	CC155055.D	ZB-MR-2 0.25(mm)
IC 580-81563/10		03/03/2011 11:27	1	CC155055.D	ZB-MR-1 0.25(mm)
IC 580-81563/11		03/03/2011 11:41	1	CC155056.D	ZB-MR-2 0.25(mm)
IC 580-81563/11		03/03/2011 11:41	1	CC155056.D	ZB-MR-1 0.25(mm)
IC 580-81563/12		03/03/2011 11:55	1	CC155057.D	ZB-MR-2 0.25(mm)
IC 580-81563/12		03/03/2011 11:55	1	CC155057.D	ZB-MR-1 0.25(mm)
IC 580-81563/13		03/03/2011 12:09	1	CC155058.D	ZB-MR-2 0.25(mm)
IC 580-81563/13		03/03/2011 12:09	1	CC155058.D	ZB-MR-1 0.25(mm)
IC 580-81563/14		03/03/2011 12:23	1	CC155059.D	ZB-MR-2 0.25(mm)
IC 580-81563/14		03/03/2011 12:23	1	CC155059.D	ZB-MR-1 0.25(mm)
ICV 580-81563/15		03/03/2011 12:38	1	CC155060.D	ZB-MR-2 0.25(mm)
ICV 580-81563/15		03/03/2011 12:38	1	CC155060.D	ZB-MR-1 0.25(mm)
IC 580-81563/16		03/03/2011 14:54	1	CC155066.D	ZB-MR-2 0.25(mm)
IC 580-81563/16		03/03/2011 14:54	1	CC155066.D	ZB-MR-1 0.25(mm)
IC 580-81563/17		03/03/2011 15:08	1	CC155067.D	ZB-MR-2 0.25(mm)
IC 580-81563/17		03/03/2011 15:08	1	CC155067.D	ZB-MR-1 0.25(mm)
IC 580-81563/18		03/03/2011 15:22	1	CC155068.D	ZB-MR-2 0.25(mm)
IC 580-81563/18		03/03/2011 15:22	1	CC155068.D	ZB-MR-1 0.25(mm)
IC 580-81563/19		03/03/2011 15:36	1	CC155069.D	ZB-MR-2 0.25(mm)
IC 580-81563/19		03/03/2011 15:36	1	CC155069.D	ZB-MR-1 0.25(mm)
IC 580-81563/20		03/03/2011 15:51	1	CC155070.D	ZB-MR-2 0.25(mm)
IC 580-81563/20		03/03/2011 15:51	1	CC155070.D	ZB-MR-1 0.25(mm)
IC 580-81563/21		03/03/2011 16:05	1	CC155071.D	ZB-MR-2 0.25(mm)
IC 580-81563/21		03/03/2011 16:05	1	CC155071.D	ZB-MR-1 0.25(mm)
ICV 580-81563/22		03/03/2011 16:20	1	CC155072.D	ZB-MR-2 0.25(mm)
ICV 580-81563/22		03/03/2011 16:20	1	CC155072.D	ZB-MR-1 0.25(mm)
IC 580-81563/23		03/03/2011 16:34	1	CC155073.D	ZB-MR-2 0.25(mm)
IC 580-81563/23		03/03/2011 16:34	1	CC155073.D	ZB-MR-1 0.25(mm)
IC 580-81563/24		03/03/2011 16:48	1	CC155074.D	ZB-MR-2 0.25(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Start Date: 03/03/2011 09:34

Analysis Batch Number: 81563 End Date: 03/03/2011 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 580-81563/24		03/03/2011 16:48	1	CC155074.D	ZB-MR-1 0.25(mm)
IC 580-81563/25		03/03/2011 17:02	1	CC155075.D	ZB-MR-2 0.25(mm)
IC 580-81563/25		03/03/2011 17:02	1	CC155075.D	ZB-MR-1 0.25(mm)
IC 580-81563/26		03/03/2011 17:16	1	CC155076.D	ZB-MR-2 0.25(mm)
IC 580-81563/26		03/03/2011 17:16	1	CC155076.D	ZB-MR-1 0.25(mm)
IC 580-81563/27		03/03/2011 17:31	1	CC155077.D	ZB-MR-2 0.25(mm)
IC 580-81563/27		03/03/2011 17:31	1	CC155077.D	ZB-MR-1 0.25(mm)
IC 580-81563/28		03/03/2011 17:45	1	CC155078.D	ZB-MR-2 0.25(mm)
IC 580-81563/28		03/03/2011 17:45	1	CC155078.D	ZB-MR-1 0.25(mm)
ICV 580-81563/29		03/03/2011 17:59	1	CC155079.D	ZB-MR-2 0.25(mm)
ICV 580-81563/29		03/03/2011 17:59	1	CC155079.D	ZB-MR-1 0.25(mm)
IC 580-81563/30		03/03/2011 18:13	1	CC155080.D	ZB-MR-2 0.25(mm)
IC 580-81563/30		03/03/2011 18:13	1	CC155080.D	ZB-MR-1 0.25(mm)
IC 580-81563/31		03/03/2011 18:27	1	CC155081.D	ZB-MR-2 0.25(mm)
IC 580-81563/31		03/03/2011 18:27	1	CC155081.D	ZB-MR-1 0.25(mm)
IC 580-81563/32		03/03/2011 18:41	1	CC155082.D	ZB-MR-2 0.25(mm)
IC 580-81563/32		03/03/2011 18:41	1	CC155082.D	ZB-MR-1 0.25(mm)
IC 580-81563/33		03/03/2011 18:55	1	CC155083.D	ZB-MR-2 0.25(mm)
IC 580-81563/33		03/03/2011 18:55	1	CC155083.D	ZB-MR-1 0.25(mm)
IC 580-81563/34		03/03/2011 19:09	1	CC155084.D	ZB-MR-2 0.25(mm)
IC 580-81563/34		03/03/2011 19:09	1	CC155084.D	ZB-MR-1 0.25(mm)
IC 580-81563/35		03/03/2011 19:24	1	CC155085.D	ZB-MR-2 0.25(mm)
IC 580-81563/35		03/03/2011 19:24	1	CC155085.D	ZB-MR-1 0.25(mm)
ICV 580-81563/36		03/03/2011 19:38	1	CC155086.D	ZB-MR-2 0.25(mm)
ICV 580-81563/36		03/03/2011 19:38	1	CC155086.D	ZB-MR-1 0.25(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Start Date: 08/16/2011 07:39

Analysis Batch Number: 92903 End Date: 08/16/2011 17:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 580-92903/2		08/16/2011 07:39	1	CC158740.D	ZB-MR-2 0.25(mm)
CCVRT 580-92903/2		08/16/2011 07:39	1	CC158740.D	ZB-MR-1 0.25(mm)
CCV 580-92903/3		08/16/2011 08:25	1	CC158742.D	ZB-MR-2 0.25(mm)
CCV 580-92903/3		08/16/2011 08:25	1	CC158742.D	ZB-MR-1 0.25(mm)
MB 580-92867/1-A		08/16/2011 11:15	1	CC158653.D	ZB-MR-2 0.25(mm)
MB 580-92867/1-A		08/16/2011 11:15	1	CC158653.D	ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 11:29	5		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 11:29	5		ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 12:30	10		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 12:30	10		ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 12:44	5		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 12:44	5		ZB-MR-1 0.25(mm)
LCS 580-92867/2-A		08/16/2011 12:58	1	CC158657.D	ZB-MR-2 0.25(mm)
LCS 580-92867/2-A		08/16/2011 12:58	1	CC158657.D	ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 13:12	1		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 13:12	1		ZB-MR-1 0.25(mm)
580-28005-A-21-B MS		08/16/2011 13:26	1	CC158659.D	ZB-MR-2 0.25(mm)
580-28005-A-21-B MS		08/16/2011 13:26	1	CC158659.D	ZB-MR-1 0.25(mm)
580-28005-A-21-C MSD		08/16/2011 13:41	1	CC158660.D	ZB-MR-2 0.25(mm)
580-28005-A-21-C MSD		08/16/2011 13:41	1	CC158660.D	ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 13:55	1		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 13:55	1		ZB-MR-1 0.25(mm)
CCV 580-92903/11		08/16/2011 14:09	1	CC158662.D	ZB-MR-2 0.25(mm)
CCV 580-92903/11		08/16/2011 14:09	1	CC158662.D	ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 15:57	1		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 15:57	1		ZB-MR-1 0.25(mm)
ZZZZZ		08/16/2011 16:11	1		ZB-MR-2 0.25(mm)
ZZZZZ		08/16/2011 16:11	1		ZB-MR-1 0.25(mm)
CCV 580-92903/16		08/16/2011 17:03	1	CC158665.D	ZB-MR-2 0.25(mm)
CCV 580-92903/16		08/16/2011 17:03	1	CC158665.D	ZB-MR-1 0.25(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: TAC042 Start Date: 08/25/2011 11:04

Analysis Batch Number: 93679 End Date: 08/25/2011 12:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 580-93679/2		08/25/2011 11:04	1	CC158945.D	ZB-MR-2 0.25(mm)
CCVRT 580-93679/2		08/25/2011 11:04	1	CC158945.D	ZB-MR-1 0.25(mm)
CCV 580-93679/3		08/25/2011 11:44	1	CC158946.D	ZB-MR-2 0.25(mm)
CCV 580-93679/3		08/25/2011 11:44	1	CC158946.D	ZB-MR-1 0.25(mm)
ZZZZZ		08/25/2011 11:58	1		ZB-MR-2 0.25(mm)
ZZZZZ		08/25/2011 11:58	1		ZB-MR-1 0.25(mm)
580-27892-1	11NVNCDS03	08/25/2011 12:12	1	CC158948.D	ZB-MR-2 0.25(mm)
580-27892-1	11NVNCDS03	08/25/2011 12:12	1	CC158948.D	ZB-MR-1 0.25(mm)
580-27892-2	11NVNCDS04	08/25/2011 12:26	1	CC158949.D	ZB-MR-2 0.25(mm)
580-27892-2	11NVNCDS04	08/25/2011 12:26	1	CC158949.D	ZB-MR-1 0.25(mm)
CCV 580-93679/7		08/25/2011 12:46	1	CC158950.D	ZB-MR-2 0.25(mm)
CCV 580-93679/7		08/25/2011 12:46	1	CC158950.D	ZB-MR-1 0.25(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Batch Number: 92867 Batch Start Date: 08/15/11 15:58 Batch Analyst: Wooten, Kara K

Batch Method: 3550B Batch End Date: 08/16/11 10:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	PCBLLSSpk 00021	Pest/PCB Surr 00019		
MB 580-92867/1		3550B, 8082/DOD		10 g	10 mL		100 uL		
LCS 580-92867/2		3550B, 8082/DOD		10 g	10 mL	100 uL	100 uL		
580-28005-A-21 MS		3550B, 8082/DOD	T	10.6229 g	10 mL	100 uL	100 uL		
580-28005-A-21 MSD		3550B, 8082/DOD	T	10.0849 g	10 mL	100 uL	100 uL		
580-27892-A-1	11NVNCDS03	3550B, 8082/DOD	T	10.2832 g	10 mL		100 uL		
580-27892-A-2	11NVNCDS04	3550B, 8082/DOD	T	10.1468 g	10 mL		100 uL		

Batch Notes	
Balance ID	SEA218
Batch Comment	Method 3550B, 8082_DoD
Blank Soil Lot Number	752680
Person's name who did the concentration	Gina Hanlon
Exchange Solvent Lot #	751332
Exchange Solvent Name	Hexane
Filter Paper Lot Number	557536
Na2SO4 Lot Number	707704
Prep Solvent Lot #	765411
Prep Solvent Name	1:1 DCM:Acetone
Prep Solvent Volume Used	130 mL
Person's name who witnessed reagent drop	None
ID number of the thermometer	15-041-1A-3
Uncorrected Temperature	87-89 Celsius
Vendor of Reagent used	JTB
Water Bath ID	TAC603
Water Bath Temperature	86-88 Celsius

Basis	Basis Description
T	Total/NA

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Seattle Job Number: 580-27645-1

SDG No.:

Project: Savoonga NALEMP, 49029

Client Sample ID	Lab Sample ID
11NVNCDS001	580-27645-1
11NVNCDS002	580-27645-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: 11NVNCDS001 Lab Sample ID: 580-27645-1

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG ID.:

Matrix: Solid Date Sampled: 07/24/2011 18:00

Reporting Basis: WET Date Received: 07/27/2011 10:05

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Lead	1.5	0.0040	0.00070	0.00034	mg/L		D	10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TCLP

Client Sample ID: 11NVNCDS002 Lab Sample ID: 580-27645-2

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG ID.:

Matrix: Solid Date Sampled: 07/25/2011 18:30

Reporting Basis: WET Date Received: 07/27/2011 10:05

Analyte	Result	LOQ	LOD	DL	Units	C	Q	DIL	Method
Lead	10	0.0040	0.00070	0.00034	mg/L		D	10	6020

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

ICV Source: ICPMS_ICV_WOR_00009 Concentration Units: mg/L

CCV Source: ICPMS_CAL_WOR_00007

Analyte	ICV 580-92209/7 08/05/2011 08:41				CCV 580-92209/12 08/05/2011 09:14				CCV 580-92209/24 08/05/2011 10:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	0.0410		0.0400	103	0.0490		0.0500	98	0.0492		0.0500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

ICV Source: ICPMS_ICV_WOR_00009 Concentration Units: mg/L

CCV Source: ICPMS_CAL_WOR_00007

Analyte	CCV 580-92209/29 08/05/2011 10:35											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Lead	0.0496		0.0500	99								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-92209/9 Concentration Units: mg/L

CRQL Check Standard Source: ICPMS_CAL_WOR_00007

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Lead	0.00200	0.00208		104	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-92209/8 08/05/2011 08:46		CCB 580-92209/13 08/05/2011 09:19		CCB 580-92209/25 08/05/2011 10:16		CCB 580-92209/30 08/05/2011 10:40	
		Found	C	Found	C	Found	C	Found	C
Lead	0.00040	0.000070	U	0.000070	U	0.000070	U	0.000070	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 580-91886/7-B

Instrument Code: SEA044 Batch No.: 92209

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	0.00070	U		6020

3-IN
METHOD BLANK
METALS - TCLP

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 580-91886/1-B

Instrument Code: SEA044 Batch No.: 92209

CAS No.	Analyte	Concentration	C	Q	Method
7439-92-1	Lead	0.00070	U		6020

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICSA 580-92209/10 Instrument ID: SEA044

Lab File ID: 013SMPL.D ICS Source: ICPMS- ICSA_00002

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Lead		**0.0001**	
Aluminum	*20.0*	*19.3*	*96*
Antimony		*0.0002*	
Arsenic		*0.0000*	
Barium		*0.0001*	
Beryllium		*0.0000*	
Cadmium		*0.0000*	
Calcium	*60.0*	*58.2*	*97*
Chromium		*0.0013*	
Cobalt		*0.0000*	
Copper		*0.0003*	
Iron	*50.0*	*50.2*	*100*
Magnesium	*20.0*	*20.0*	*100*
Manganese		*0.0010*	
Mercury		*0.0000*	
Molybdenum	*0.400*	*0.422*	*106*
Nickel		*0.0007*	
Potassium	*20.0*	*20.1*	*100*
Selenium		*0.0001*	
Silver		*0.0000*	
Sodium	*50.0*	*50.7*	*101*
Strontium		*-0.0008*	
Thallium		*0.0001*	
Tin		*0.0003*	
Titanium	*0.400*	*0.403*	*101*
Uranium		*0.0000*	
Vanadium		*-0.0003*	
Zinc		*0.0016*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICSAB 580-92209/11 Instrument ID: SEA044

Lab File ID: 014SMPL.D ICS Source: ICPMS- ICSA_00002

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Lead		**0.0000**	
Aluminum	*20.0*	*19.0*	*95*
Antimony		*0.0001*	
Arsenic	*0.0200*	*0.0208*	*104*
Barium		*0.0001*	
Beryllium		*0.0000*	
Cadmium	*0.0200*	*0.0211*	*106*
Calcium	*60.0*	*56.7*	*95*
Chromium	*0.0400*	*0.0411*	*103*
Cobalt	*0.0400*	*0.0407*	*102*
Copper	*0.0400*	*0.0390*	*97*
Iron	*50.0*	*49.8*	*100*
Magnesium	*20.0*	*19.9*	*100*
Manganese	*0.0400*	*0.0406*	*101*
Mercury		*0.0000*	
Molybdenum	*0.400*	*0.422*	*105*
Nickel	*0.0400*	*0.0404*	*101*
Potassium	*20.0*	*19.8*	*99*
Selenium	*0.0200*	*0.0202*	*101*
Silver	*0.0100*	*0.0104*	*104*
Sodium	*50.0*	*50.3*	*101*
Strontium		*-0.0008*	
Thallium		*0.0000*	
Tin		*0.0001*	
Titanium	*0.400*	*0.393*	*98*
Uranium		*0.0000*	
Vanadium	*0.0400*	*0.0411*	*103*
Zinc	*0.0200*	*0.0202*	*101*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Lab Sample ID: ICSAB 580-92209/11 Instrument ID: SEA044

Lab File ID: 014SMPL.D ICS Source: ICPMS-ICSB_00002

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Lead		**0.0000**	
Aluminum	*20.0*	*19.0*	*95*
Antimony		*0.0001*	
Arsenic	*0.0200*	*0.0208*	*104*
Barium		*0.0001*	
Beryllium		*0.0000*	
Cadmium	*0.0200*	*0.0211*	*106*
Calcium	*60.0*	*56.7*	*95*
Chromium	*0.0400*	*0.0411*	*103*
Cobalt	*0.0400*	*0.0407*	*102*
Copper	*0.0400*	*0.0390*	*97*
Iron	*50.0*	*49.8*	*100*
Magnesium	*20.0*	*19.9*	*100*
Manganese	*0.0400*	*0.0406*	*101*
Mercury		*0.0000*	
Molybdenum	*0.400*	*0.422*	*105*
Nickel	*0.0400*	*0.0404*	*101*
Potassium	*20.0*	*19.8*	*99*
Selenium	*0.0200*	*0.0202*	*101*
Silver	*0.0100*	*0.0104*	*104*
Sodium	*50.0*	*50.3*	*101*
Strontium		*-0.0008*	
Thallium		*0.0000*	
Tin		*0.0001*	
Titanium	*0.400*	*0.393*	*98*
Uranium		*0.0000*	
Vanadium	*0.0400*	*0.0411*	*103*
Zinc	*0.0200*	*0.0202*	*101*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY

Client ID: Lab ID: 580-27782-B-1-E MS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Matrix: Solid Concentration Units: mg/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	1.09		0.0020	J	1.00	109	50-150	D	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY

Client ID: _____ Lab ID: 580-27782-B-1-F MSD

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/L

% Solids: _____

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	1.05		1.00	105	50-150	4	20	D	6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY

Client ID: _____ Lab ID: 580-27782-B-1-C PDS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.: _____

Matrix: Solid Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Lead	1.05		0.0020	J	1.00	105		D	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

6-IN
DUPLICATES

Client ID: Lab ID: 580-27782-B-1-D DU

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

% Solids for Sample: % Solids for Duplicate:

Matrix: Solid Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Lead	0.0040	0.0020	J	0.00214	J	5	D	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-92052/19-A

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

Sample Matrix: Water LCS Source: m-GPS-1_00021

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	1.00	0.986		99	80	120	D	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-92052/20-A

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

Sample Matrix: Water LCS Source: m-GPS-1_00021

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Lead	0.963		1.00	96	80-120	2	20	D	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-92052/21-A

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

Sample Matrix: Water LCS Source: m-GPS-1_00021

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Lead	1.00	0.972		97	80	120	D	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS

Lab ID: 580-27782-B-1-C SD

SDG No:

Lab Name: TestAmerica Seattle Job No: 580-27645-1

Matrix: Solid Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Lead	0.0020	J	0.00209	J	NC	D	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Seattle Job Number: 580-27645-1

SDG Number:

Matrix: Solid Instrument ID: SEA044

Method: 6020 DL Date: 06/10/2011 10:41

Prep Method: 3010A

Leach Method: 1311

Analyte	Wavelength/ Mass	LOQ (mg/L)	DL (mg/L)
Lead		0.0004	0.000034

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TCLP

Lab Name: TestAmerica Seattle Job Number: 580-27645-1

SDG Number:

Matrix: Solid Instrument ID: SEA044

Method: 6020 XMDL Date: 06/24/2011 10:09

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Lead		0.0004	0.00004

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Seattle Job No: 580-27645-1

SDG No.:

Instrument ID: SEA044 Date: 03/01/2010 06:51

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Lead		5	6020

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
580-27782-B-1-D DU	08/04/2011 13:48	92052		50	50
580-27782-B-1-E MS	08/04/2011 13:48	92052		50	50
580-27782-B-1-F MSD	08/04/2011 13:48	92052		50	50
580-27645-1	08/04/2011 13:48	92052		50	50
580-27645-2	08/04/2011 13:48	92052		50	50
MB 580-91886/7-B	08/04/2011 13:48	92052		50	50
MB 580-91886/1-B	08/04/2011 13:48	92052		50	50
LCS 580-92052/19-A	08/04/2011 13:48	92052		50	50
LCSD 580-92052/20-A	08/04/2011 13:48	92052		50	50
LCSSRM 580-92052/21-A	08/04/2011 13:48	92052		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 08/05/2011 08:13 End Date: 08/05/2011 17:38

Lab Sample ID	D/F	Type	Time	Analytes																			
				Pb																			
STD0 580-92209/1 IC	1		08:13	X																			
STD1 580-92209/2 IC	1		08:18	X																			
STD2 580-92209/3 IC	1		08:22	X																			
STD3 580-92209/4 IC	1		08:27	X																			
STD4 580-92209/5 IC	1		08:32	X																			
STD5 580-92209/6 IC	1		08:37	X																			
ICV 580-92209/7	1		08:41	X																			
ICB 580-92209/8	1		08:46	X																			
CRI 580-92209/9	1		08:51	X																			
ICSA 580-92209/10	1		08:56	X																			
ICSAB 580-92209/11	1		09:00	X																			
CCV 580-92209/12	1		09:14	X																			
CCB 580-92209/13	1		09:19	X																			
MB 580-91886/1-B	10	P	09:24	X																			
580-27782-B-1-C SD	50		09:29	X																			
ZZZZZZ			09:33																				
580-27782-B-1-D DU	10		09:38	X																			
580-27782-B-1-E MS	50		09:43	X																			
580-27782-B-1-F MSD	50		09:48	X																			
580-27782-B-1-C PDS	50		09:53	X																			
LCS 580-92052/19-A	50	T	09:57	X																			
LCSD 580-92052/20-A	50	T	10:02	X																			
LCSSRM 580-92052/21-A	50	T	10:07	X																			
CCV 580-92209/24	1		10:12	X																			
CCB 580-92209/25	1		10:16	X																			
MB 580-91886/7-B	10	P	10:21	X																			
580-27645-1	10	P	10:26	X																			
580-27645-2	10	P	10:31	X																			
CCV 580-92209/29	1		10:35	X																			
CCB 580-92209/30	1		10:40	X																			
ZZZZZZ			10:45																				
ZZZZZZ			10:50																				
ZZZZZZ			10:55																				
ZZZZZZ			10:59																				
ZZZZZZ			11:04																				
ZZZZZZ			11:09																				
ZZZZZZ			11:13																				
ZZZZZZ			11:18																				
ZZZZZZ			11:23																				
ZZZZZZ			11:37																				
ZZZZZZ			11:42																				
ZZZZZZ			11:46																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 08/05/2011 08:13 End Date: 08/05/2011 17:38

Lab Sample ID	D / F	Type	Time	Analytes																				
				Pb																				
ZZZZZZ			11:51																					
ZZZZZZ			11:56																					
ZZZZZZ			12:00																					
ZZZZZZ			12:15																					
ZZZZZZ			12:19																					
ZZZZZZ			12:24																					
ZZZZZZ			12:29																					
ZZZZZZ			12:33																					
ZZZZZZ			12:38																					
ZZZZZZ			12:43																					
ZZZZZZ			12:48																					
ZZZZZZ			12:52																					
ZZZZZZ			13:07																					
ZZZZZZ			13:11																					
ZZZZZZ			13:16																					
ZZZZZZ			13:21																					
ZZZZZZ			13:25																					
ZZZZZZ			13:30																					
ZZZZZZ			13:35																					
ZZZZZZ			13:39																					
ZZZZZZ			13:44																					
ZZZZZZ			13:49																					
ZZZZZZ			14:03																					
ZZZZZZ			14:08																					
ZZZZZZ			14:12																					
ZZZZZZ			14:17																					
ZZZZZZ			14:22																					
ZZZZZZ			14:26																					
CCV 580-92209/71			15:14																					
CCB 580-92209/72			15:19																					
ZZZZZZ			15:24																					
ZZZZZZ			15:29																					
ZZZZZZ			15:33																					
ZZZZZZ			15:38																					
ZZZZZZ			15:43																					
ZZZZZZ			15:48																					
ZZZZZZ			15:52																					
ZZZZZZ			15:57																					
ZZZZZZ			16:02																					
ZZZZZZ			16:07																					
CCV 580-92209/83			16:12																					
CCB 580-92209/84			16:16																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 08/05/2011 08:13 End Date: 08/05/2011 17:38

Lab Sample ID	D / F	Type	Time	Analytes																			
				Pb																			
ZZZZZZ			16:21																				
ZZZZZZ			16:26																				
ZZZZZZ			16:31																				
ZZZZZZ			16:36																				
ZZZZZZ			16:40																				
ZZZZZZ			16:45																				
ZZZZZZ			16:50																				
ZZZZZZ			16:55																				
ZZZZZZ			16:59																				
ZZZZZZ			17:04																				
CCV 580-92209/95			17:09																				
CCB 580-92209/96			17:14																				
ZZZZZZ			17:19																				
ZZZZZZ			17:23																				
ZZZZZZ			17:28																				
CCV 580-92209/100			17:33																				
CCB 580-92209/101			17:38																				

Prep Types

= TCLP

P = TCLP

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 08/05/2011 End Date: 08/05/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element Rh	Q
STD0 580-92209/1 IC	08:13	100		100		100		100		100	
STD1 580-92209/2 IC	08:18	101		103		101		100		100	
STD2 580-92209/3 IC	08:22	98		98		99		99		98	
STD3 580-92209/4 IC	08:27	95		96		100		99		98	
STD4 580-92209/5 IC	08:32	96		98		100		99		96	
STD5 580-92209/6 IC	08:37	94		94		100		99		94	
ICV 580-92209/7	08:41	95		98		102		101		98	
ICB 580-92209/8	08:46	99		98		102		102		99	
CRI 580-92209/9	08:51	98		100		103				99	
ICSA 580-92209/10	08:56	97		97		103		98		88	
ICSAB 580-92209/11	09:00	97		100		104		98		88	
CCV 580-92209/12	09:14	97		99		103		100		96	
CCB 580-92209/13	09:19	99		100		101		100		100	
MB 580-91886/1-B	09:24					107				99	
580-27782-B-1-C SD	09:29	101		101		106				97	
580-27782-B-1-D DU	09:38					102				89	
580-27782-B-1-E MS	09:43					109				95	
580-27782-B-1-F MSD	09:48					110				97	
580-27782-B-1-C PDS	09:53	104		103		110				97	
LCS 580-92052/19-A	09:57					107				101	
LCSD 580-92052/20-A	10:02					109				104	
LCSSRM	10:07					107				101	
CCV 580-92209/24	10:12	100		102		107		104		98	
CCB 580-92209/25	10:16	102		104		107		105		102	
MB 580-91886/7-B	10:21					113				101	
580-27645-1	10:26					105				91	
580-27645-2	10:31					105				92	
CCV 580-92209/29	10:35	105		104		110		106		100	
CCB 580-92209/30	10:40	105		103		112		106		104	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 08/05/2011 End Date: 08/05/2011

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ho	Q	Element Lu	Q	Element Bi	Q	Element	Q	Element	Q
STD0 580-92209/1 IC	08:13	100		100		100					
STD1 580-92209/2 IC	08:18	100		102		102					
STD2 580-92209/3 IC	08:22	99		100		101					
STD3 580-92209/4 IC	08:27	98		99		98					
STD4 580-92209/5 IC	08:32	99		101		97					
STD5 580-92209/6 IC	08:37	97		97		94					
ICV 580-92209/7	08:41	99		100		97					
ICB 580-92209/8	08:46	100		100		100					
CRI 580-92209/9	08:51	101		100							
ICSA 580-92209/10	08:56	94		95		88					
ICSAB 580-92209/11	09:00	94		96		87					
CCV 580-92209/12	09:14	99		101		99					
CCB 580-92209/13	09:19	101		101		102					
MB 580-91886/1-B	09:24	98		99							
580-27782-B-1-C SD	09:29	98		99							
580-27782-B-1-D DU	09:38	95		95							
580-27782-B-1-E MS	09:43	98		99							
580-27782-B-1-F MSD	09:48	99		100							
580-27782-B-1-C PDS	09:53	99		100							
LCS 580-92052/19-A	09:57	101		102							
LCSD 580-92052/20-A	10:02	105		105							
LCSSRM	10:07	102		102							
CCV 580-92209/24	10:12	101		101		98					
CCB 580-92209/25	10:16	102		104		103					
MB 580-91886/7-B	10:21	101		101							
580-27645-1	10:26	96		97							
580-27645-2	10:31	97		98							
CCV 580-92209/29	10:35	102		103		99					
CCB 580-92209/30	10:40	104		105		103					

Step	Mass	Element	r	b(blank)	DL	BEC	Unit
1	6	Li	0.0000	--- ---	---	ug/l	
1	7	Li	0.0000	--- ---	---	ug/l	
1	9	Be	1.0000	3.646E-05	2.073E-02	7.872E-03	ug/l
1	23	Na	1.0000	4.028 7.449	82.80	ug/l	
1	24	Mg	1.0000	4.402E-03	6.761E-02	1.532E-01	ug/l
1	27	Al	1.0000	4.023E-02	5.522E-01	2.253 ug/l	
1	31	P	1.0000	2.922E-02	6.801 20.33	ug/l	
1	39	K	0.9999	3.322 7.840	102.7	ug/l	
1	44	Ca	1.0000	1.342E-02	7.640E-01	8.518 ug/l	
1	45	Sc	0.0000	--- ---	---	ug/l	
1	47	Ti	1.0000	1.416E-04	2.549E-02	1.637E-02	ug/l
1	51	V	0.9999	3.295E-02	1.773E-02	3.696E-01	ug/l
1	52	Cr	0.9999	1.352E-02	5.167E-03	1.331E-01	ug/l
1	55	Mn	0.9999	2.887E-03	9.076E-03	3.760E-02	ug/l
1	56	Fe	0.9999	1.180E-01	4.835E-02	1.314 ug/l	
1	59	Co	0.9998	2.651E-04	2.003E-03	1.832E-03	ug/l
1	60	Ni	0.9999	1.259E-03	3.078E-02	3.370E-02	ug/l
1	63	Cu	0.9998	4.537E-03	1.114E-02	4.652E-02	ug/l
1	66	Zn	1.0000	1.204E-02	5.831E-02	5.533E-01	ug/l
1	74	Ge	0.0000	--- ---	---	ug/l	
1	75	As	1.0000	2.073E-03	3.847E-02	1.218E-01	ug/l
1	78	Se	1.0000	9.969E-04	7.741E-02	6.142E-01	ug/l
1	88	Sr	1.0000	4.378E-03	2.911E-02	6.535E-02	ug/l
1	95	Mo	1.0000	5.916E-04	1.435E-02	1.864E-02	ug/l
1	103	Rh	0.0000	--- ---	---	ug/l	
1	109	Ag	1.0000	6.621E-04	4.251E-03	6.946E-03	ug/l
1	111	Cd	1.0000	1.719E-04	2.954E-02	9.897E-03	ug/l
1	118	Sn	1.0000	1.536E-03	3.804E-02	4.059E-02	ug/l
1	123	Sb	1.0000	5.072E-04	2.793E-03	1.133E-02	ug/l
1	135	Ba	1.0000	2.537E-04	3.640E-02	2.421E-02	ug/l
1	165	Ho	0.0000	--- ---	---	ug/l	
1	175	Lu	0.0000	--- ---	---	ug/l	
1	200	Hg	1.0000	4.324E-04	6.165E-03	8.798E-03	ug/l
1	205	Tl	1.0000	3.562E-03	7.416E-03	9.106E-03	ug/l
1	208	Pb	1.0000	2.242E-01	3.454E-02	4.202E-01	ug/l
1	209	Bi	0.0000	--- ---	---	ug/l	
1	238	U	1.0000	1.492E-03	5.812E-04	2.745E-03	ug/l

TA Seattle Calibration Blank QC Report 200.8/6020 ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#
Date Acquired: Aug 5 2011 08:13 am Acq. Method: 00He_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111
Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\he.u
2	C:\ICPCHEM\1\7500\
3	C:\ICPCHEM\1\7500\

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	1	96094.8	P	413.20	0.43
7	Li	1	7398.9	P	181.00	2.45
9	Be	1	3.0	P	2.65	88.20
23	Na	1	141593.7	P	1750.00	1.24
24	Mg	1	155.0	P	25.00	16.13
27	Al	1	1413.4	P	96.50	6.83
31	P	1	1026.7	P	107.70	10.49
39	K	1	116774.8	P	886.00	0.76
44	Ca	1	472.0	P	19.81	4.20
45	Sc	1	1758157.0	A	31770.00	1.81
47	Ti	1	5.0	P	2.65	52.92
51	V	1	2700.4	P	74.02	2.74
52	Cr	1	1108.4	P	25.66	2.32
55	Mn	1	236.7	P	20.21	8.54
56	Fe	1	9672.2	P	222.20	2.30
57	Fe	1		P		
59	Co	1	21.7	P	7.64	35.25
60	Ni	1	103.3	P	32.15	31.11
63	Cu	1	371.7	P	27.54	7.41
66	Zn	1	986.7	P	35.48	3.60
74	Ge	1	4097455.0	A	47340.00	1.16
75	As	1	170.0	P	19.70	11.59
78	Se	1	81.7	P	2.47	3.02
88	Sr	1	517.8	P	76.69	14.81
95	Mo	1	70.0	P	18.03	25.76
99	(Mo)	1		P		
103	Rh	1	5914910.0	A	8133.00	0.14
106	(Cd)	1		P		
108	(Cd)	1		P		
109	Ag	1	78.3	P	16.07	20.51
111	Cd	1	20.3	P	20.25	99.55
118	Sn	1	181.7	P	56.86	31.30
123	Sb	1	60.0	P	5.00	8.33
135	Ba	1	30.0	P	15.00	50.00
165	Ho	1	2615121.0	A	37670.00	1.44
175	Lu	1	2149305.0	A	38650.00	1.80
200	Hg	1	23.7	P	5.51	23.27
205	Tl	1	195.0	P	52.92	27.14
206	Pb	1		P		
207	Pb	1		P		
208	Pb	1	12269.5	P	218.30	1.78
209	Bi	1	2736908.0	A	32350.00	1.18
238	U	1	81.7	P	5.77	7.07

TA Seattle Calibration Standard QC Report 200.8/6020 ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\080511AM.B\005CALS.D\005CALS.D#

Date Acquired: Aug 5 2011 08:18 am

Acq. Method: 00He_ALL.M

Sample Name: **STD1**

Vial Number: 1305

Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Operator: FCW ICP-MS ID#SEA44

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M

Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C

Last Cal. Update: Aug 08 2011 07:13 am

ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	icpchem\1\7500\he.u
2	C:\ICPCHEM\1\7500\
3	C:\ICPCHEM\1\7500\

QC&ISTD Elements

Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	74	1	46.3	P	19.50	42.09
23	Na	45	1	193959.7	P	1306.00	0.67
24	Mg	45	1	11805.6	P	178.20	1.51
27	Al	45	1	1578.5	P	172.20	10.91
31	P	45	1	1653.5	P	51.09	3.09
39	K	45	1	137568.5	P	446.90	0.32
44	Ca	45	1	1138.1	P	53.20	4.67
47	Ti	45	1	46.0	P	1.73	3.77
51	V	74	1	3809.0	P	189.40	4.97
52	Cr	74	1	2255.2	P	62.66	2.78
55	Mn	74	1	1265.1	P	115.30	9.11
56	Fe	74	1	99255.1	P	716.80	0.72
59	Co	74	1	1290.1	P	151.30	11.73
60	Ni	74	1	858.4	P	25.17	2.93
63	Cu	74	1	2690.3	P	191.80	7.13
66	Zn	74	1	1580.1	P	104.40	6.61
75	As	74	1	310.0	P	15.62	5.04
78	Se	74	1	96.8	P	10.56	10.91
88	Sr	103	1	1340.8	P	139.60	10.41
95	Mo	103	1	423.3	P	28.87	6.82
109	Ag	103	1	1265.1	P	99.89	7.90
111	Cd	103	1	230.4	P	14.10	6.12
118	Sn	103	1	823.4	P	135.80	16.49
123	Sb	103	1	583.4	P	60.49	10.37
135	Ba	103	1	180.0	P	10.00	5.56
200	Hg	209	1	39.3	P	6.35	16.15
205	Tl	209	1	2497.0	P	107.30	4.30
208	Pb	209	1	16623.3	P	62.16	0.37
238	U	209	1	3102.2	P	98.69	3.18

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	97344	1.18	96090	101.3	30 - 125	
45	Sc	1	1785387	0.37	1758000	101.6	30 - 125	
74	Ge	1	4124036	0.95	4097000	100.7	30 - 125	
103	Rh	1	5960152	0.16	5915000	100.8	30 - 125	
165	Ho	1	2627740	1.21	2615000	100.5	30 - 125	
175	Lu	1	2194817	1.20	2149000	102.1	30 - 125	
209	Bi	1	2815838	0.76	2737000	102.9	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle Calibration Standard QC Report 200.8/6020 ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\080511AM.B\006CALS.D\006CALS.D#

Date Acquired: Aug 5 2011 08:22 am

Acq. Method: 00He_ALL.M

Sample Name: **STD2**

Vial Number: 1304

Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Operator: FCW ICP-MS ID#SEA44

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M

Tune # Name

Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C

1 icpchem\1\7500\he.u

Last Cal. Update: Aug 08 2011 07:13 am

2 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

3 C:\ICPCHEM\1\7500\

QC&ISTD Elements

Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	74	1	393.7	P	7.02	1.78
23	Na	45	1	335754.6	P	1553.00	0.46
24	Mg	45	1	109594.1	P	1746.00	1.59
27	Al	45	1	7952.6	P	317.10	3.99
31	P	45	1	6278.3	P	262.30	4.18
39	K	45	1	245324.1	P	1084.00	0.44
44	Ca	45	1	6246.2	P	28.25	0.45
47	Ti	45	1	301.0	P	6.24	2.07
51	V	74	1	10931.6	P	332.00	3.04
52	Cr	74	1	9802.3	P	228.90	2.34
55	Mn	74	1	6942.0	P	113.60	1.64
56	Fe	74	1	783351.0	A	14060.00	1.79
59	Co	74	1	12503.1	P	253.80	2.03
60	Ni	74	1	3467.2	P	101.10	2.92
63	Cu	74	1	9515.4	P	64.32	0.68
66	Zn	74	1	2828.7	P	67.90	2.40
75	As	74	1	1596.1	P	47.80	2.99
78	Se	74	1	227.0	P	28.65	12.62
88	Sr	103	1	8243.6	P	131.50	1.60
95	Mo	103	1	3787.3	P	82.84	2.19
109	Ag	103	1	11644.1	P	207.20	1.78
111	Cd	103	1	2074.5	P	70.56	3.40
118	Sn	103	1	4772.7	P	103.00	2.16
123	Sb	103	1	5117.8	P	62.55	1.22
135	Ba	103	1	1278.4	P	46.46	3.63
200	Hg	209	1	173.3	P	8.39	4.84
205	Tl	209	1	22126.4	P	203.50	0.92
208	Pb	209	1	43225.4	P	917.30	2.12
238	U	209	1	30305.6	P	324.40	1.07

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	94665	4.96	96090	98.5	30 - 125	
45	Sc	1	1757708	7.23	1758000	100.0	30 - 125	
74	Ge	1	4085389	5.51	4097000	99.7	30 - 125	
103	Rh	1	5820303	7.90	5915000	98.4	30 - 125	
165	Ho	1	2590776	7.08	2615000	99.1	30 - 125	
175	Lu	1	2153465	7.04	2149000	100.2	30 - 125	
209	Bi	1	2780979	6.58	2737000	101.6	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle Calibration Standard QC Report 200.8/6020 ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\080511AM.B\007CALS.D\007CALS.D#

Date Acquired: Aug 5 2011 08:27 am

Acq. Method: 00He_ALL.M

Sample Name: **STD3**

Vial Number: 1303

Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Operator: FCW ICP-MS ID#SEA44

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M

Tune # Name

Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C

1 icpchem\1\7500\he.u

Last Cal. Update: Aug 08 2011 07:13 am

2 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

3 C:\ICPCHEM\1\7500\

QC&ISTD Elements

Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	74	1	3705.2	P	34.22	0.92
23	Na	45	1	1902301.0	A	28770.00	1.51
24	Mg	45	1	1066797.0	A	10360.00	0.97
27	Al	45	1	63674.2	P	653.20	1.03
31	P	45	1	51152.2	P	641.30	1.25
39	K	45	1	1341472.0	A	24920.00	1.86
44	Ca	45	1	56563.4	P	300.90	0.53
47	Ti	45	1	3083.7	P	85.73	2.78
51	V	74	1	75682.1	P	1212.00	1.60
52	Cr	74	1	85581.7	P	476.20	0.56
55	Mn	74	1	64195.9	P	686.00	1.07
56	Fe	74	1	7436962.0	A	135600.00	1.82
59	Co	74	1	121480.3	P	1340.00	1.10
60	Ni	74	1	32173.1	P	259.10	0.81
63	Cu	74	1	84698.3	P	1228.00	1.45
66	Zn	74	1	19278.4	P	373.50	1.94
75	As	74	1	14444.4	P	351.90	2.44
78	Se	74	1	1426.6	P	37.41	2.62
88	Sr	103	1	77883.7	P	1155.00	1.48
95	Mo	103	1	36103.1	P	696.40	1.93
109	Ag	103	1	113930.2	P	1146.00	1.01
111	Cd	103	1	19906.4	P	190.30	0.96
118	Sn	103	1	43389.2	P	653.40	1.51
123	Sb	103	1	51181.0	P	518.60	1.01
135	Ba	103	1	12269.8	P	146.70	1.20
200	Hg	209	1	1377.1	P	56.72	4.12
205	Tl	209	1	211284.0	P	2794.00	1.32
208	Pb	209	1	307014.3	P	3505.00	1.14
238	U	209	1	298598.6	P	3713.00	1.24

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	91595	1.60	96090	95.3	30 - 125	
45	Sc	1	1767170	2.40	1758000	100.5	30 - 125	
74	Ge	1	4094418	0.65	4097000	99.9	30 - 125	
103	Rh	1	5820292	0.72	5915000	98.4	30 - 125	
165	Ho	1	2576084	0.76	2615000	98.5	30 - 125	
175	Lu	1	2133550	1.51	2149000	99.3	30 - 125	
209	Bi	1	2705766	1.21	2737000	98.9	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle Calibration Standard QC Report 200.8/6020 ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\080511AM.B\008CALS.D\008CALS.D#

Date Acquired: Aug 5 2011 08:32 am

Acq. Method: 00He_ALL.M

Sample Name: **STD4**

Vial Number: 1302

Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Operator: FCW ICP-MS ID#SEA44

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M

Tune # Name

Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C

1 icpchem\1\7500\he.u

Last Cal. Update: Aug 08 2011 07:13 am

2 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

3 C:\ICPCHEM\1\7500\

QC&ISTD Elements

Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	74	1	18985.8	P	39.28	0.21
23	Na	45	1	8828475.0	A	328600.00	3.72
24	Mg	45	1	5071768.0	A	52020.00	1.03
27	Al	45	1	317537.3	P	3350.00	1.06
31	P	45	1	254979.0	P	1205.00	0.47
39	K	45	1	5932504.0	A	82220.00	1.39
44	Ca	45	1	281231.1	P	820.60	0.29
47	Ti	45	1	15400.0	P	182.00	1.18
51	V	74	1	372876.5	P	4673.00	1.25
52	Cr	74	1	421681.5	P	3638.00	0.86
55	Mn	74	1	319201.0	P	1858.00	0.58
56	Fe	74	1	37443300.0	A	72700.00	0.19
59	Co	74	1	605919.5	P	3979.00	0.66
60	Ni	74	1	155425.3	P	1361.00	0.88
63	Cu	74	1	409872.1	P	3882.00	0.95
66	Zn	74	1	90106.2	P	852.30	0.95
75	As	74	1	69749.7	P	861.10	1.23
78	Se	74	1	6689.6	P	14.15	0.21
88	Sr	103	1	380810.4	P	1306.00	0.34
95	Mo	103	1	180649.8	P	2365.00	1.31
109	Ag	103	1	552607.7	P	7193.00	1.30
111	Cd	103	1	99111.0	P	553.10	0.56
118	Sn	103	1	217053.1	P	1928.00	0.89
123	Sb	103	1	255344.6	P	1311.00	0.51
135	Ba	103	1	60069.2	P	765.90	1.28
200	Hg	209	1	6665.6	P	59.04	0.89
205	Tl	209	1	1035432.0	A	28940.00	2.80
208	Pb	209	1	1445159.0	P	15450.00	1.07
238	U	209	1	1447138.0	A	32720.00	2.26

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	92918	1.81	96090	96.7	30 - 125	
45	Sc	1	1765491	0.68	1758000	100.4	30 - 125	
74	Ge	1	4058809	0.16	4097000	99.1	30 - 125	
103	Rh	1	5736015	1.21	5915000	97.0	30 - 125	
165	Ho	1	2593450	0.68	2615000	99.2	30 - 125	
175	Lu	1	2173723	0.23	2149000	101.2	30 - 125	
209	Bi	1	2666073	0.68	2737000	97.4	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle Calibration Standard QC Report 200.8/6020 ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\080511AM.B\009CALS.D\009CALS.D#

Date Acquired: Aug 5 2011 08:37 am

Acq. Method: 00He_ALL.M

Sample Name: **STD5**

Vial Number: 1301

Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Operator: FCW ICP-MS ID#SEA44

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M

Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C

Last Cal. Update: Aug 08 2011 07:13 am

ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	icpchem\1\7500\he.u
2	C:\ICPCHEM\1\7500\
3	C:\ICPCHEM\1\7500\

QC&ISTD Elements

Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	74	1	37707.0	P	180.80	0.48
23	Na	45	1	17312090.0	A	79970.00	0.46
24	Mg	45	1	10163740.0	A	15770.00	0.16
27	Al	45	1	633019.5	P	1780.00	0.28
31	P	45	1	509726.9	P	4191.00	0.82
39	K	45	1	11515090.0	A	120700.00	1.05
44	Ca	45	1	556908.2	P	3045.00	0.55
47	Ti	45	1	30575.3	P	145.60	0.48
51	V	74	1	725912.8	P	3321.00	0.46
52	Cr	74	1	826183.3	A	9371.00	1.13
55	Mn	74	1	622980.3	P	7774.00	1.25
56	Fe	74	1	72804440.0	A	363300.00	0.50
59	Co	74	1	1170619.0	A	4370.00	0.37
60	Ni	74	1	302944.1	P	1404.00	0.46
63	Cu	74	1	788884.1	P	2385.00	0.30
66	Zn	74	1	178082.8	P	573.60	0.32
75	As	74	1	138683.1	P	672.00	0.48
78	Se	74	1	13310.6	P	50.75	0.38
88	Sr	103	1	749265.7	P	6299.00	0.84
95	Mo	103	1	354652.3	P	3117.00	0.88
109	Ag	103	1	1059597.0	A	9697.00	0.92
111	Cd	103	1	193896.1	P	531.00	0.27
118	Sn	103	1	422143.2	P	2470.00	0.59
123	Sb	103	1	500167.7	P	2222.00	0.44
135	Ba	103	1	116905.3	P	661.10	0.57
200	Hg	209	1	12727.3	P	105.50	0.83
205	Tl	209	1	2033701.0	A	51790.00	2.55
208	Pb	209	1	2774564.0	A	14890.00	0.54
238	U	209	1	2820925.0	A	8881.00	0.31

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	90599	0.82	96090	94.3	30 - 125	
45	Sc	1	1770141	0.55	1758000	100.7	30 - 125	
74	Ge	1	4080118	1.48	4097000	99.6	30 - 125	
103	Rh	1	5574747	0.66	5915000	94.2	30 - 125	
165	Ho	1	2548290	0.94	2615000	97.4	30 - 125	
175	Lu	1	2098513	0.86	2149000	97.7	30 - 125	
209	Bi	1	2594706	0.63	2737000	94.8	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\010SMPL.D\010SMPL.D#
Date Acquired: Aug 5 2011 08:41 am Acq. Method: 00He_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**40.590**	ug/l	40.59	0.2	900	74	P	
23	**Na**	1	**4029.000**	ug/l	4,029.00	1.2	450000	45	A	
24	**Mg**	1	**4033.000**	ug/l	4,033.00	0.9	450000	45	A	
27	**Al**	1	**409.800**	ug/l	409.80	2.0	450000	45	P	
31	**P**	1	**3995.000**	ug/l	3,995.00	2.4	450000	45	P	
39	**K**	1	**4095.000**	ug/l	4,095.00	3.4	450000	45	A	
44	**Ca**	1	**4049.000**	ug/l	4,049.00	2.1	450000	45	P	
47	**Ti**	1	**40.210**	ug/l	40.21	2.4	4500	45	P	
51	**V**	1	**40.460**	ug/l	40.46	0.6	4500	74	P	
52	**Cr**	1	**40.660**	ug/l	40.66	0.8	4500	74	P	
55	**Mn**	1	**40.620**	ug/l	40.62	1.1	4500	74	P	
56	**Fe**	1	**4090.000**	ug/l	4,090.00	1.7	450000	74	A	
59	**Co**	1	**41.460**	ug/l	41.46	0.7	4500	74	P	
60	**Ni**	1	**40.980**	ug/l	40.98	0.3	4500	74	P	
63	**Cu**	1	**41.450**	ug/l	41.45	0.1	4500	74	P	
66	**Zn**	1	**40.270**	ug/l	40.27	0.9	4500	74	P	
75	**As**	1	**40.400**	ug/l	40.40	1.0	4500	74	P	
78	**Se**	1	**40.250**	ug/l	40.25	0.7	4500	74	P	
88	**Sr**	1	**40.040**	ug/l	40.04	0.8	4500	103	P	
95	**Mo**	1	**40.210**	ug/l	40.21	1.9	4500	103	P	
109	**Ag**	1	**40.720**	ug/l	40.72	1.8	4500	103	P	
111	**Cd**	1	**39.880**	ug/l	39.88	1.0	4500	103	P	
118	**Sn**	1	**40.420**	ug/l	40.42	0.6	4500	103	P	
123	**Sb**	1	**39.810**	ug/l	39.81	0.9	4500	103	P	
135	**Ba**	1	**39.820**	ug/l	39.82	2.6	4500	103	P	
200	**Hg**	1	**2.095**	ug/l	2.10	1.0	45	209	P	
205	**Tl**	1	**41.070**	ug/l	41.07	0.7	4500	209	P	
208	**Pb**	1	**41.020**	ug/l	41.02	0.9	4500	209	P	
238	**U**	1	**40.490**	ug/l	40.49	1.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	91812	1.35	96090	**95.5**	30	-	125	
45	Sc	1	1810457	2.53	1758000	**103.0**	30	-	125	
74	Ge	1	4146043	0.43	4097000	**101.2**	30	-	125	
103	Rh	1	5796983	1.13	5915000	**98.0**	30	-	125	
165	Ho	1	2604013	1.46	2615000	**99.6**	30	-	125	
175	Lu	1	2162989	1.76	2149000	**100.7**	30	-	125	
209	Bi	1	2666823	1.28	2737000	**97.4**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\011SMPL.D\011SMPL.D#
Date Acquired: Aug 5 2011 08:46 am Acq. Method: 00He_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.003**	ug/l	0.00	270.9	900	74	P	
23	**Na**	1	**-2.311**	ug/l	-2.31	100.2	450000	45	P	
24	**Mg**	1	**0.063**	ug/l	0.06	81.9	450000	45	P	
27	**Al**	1	**0.027**	ug/l	0.03	863.8	450000	45	P	
31	**P**	1	**0.902**	ug/l	0.90	166.7	450000	45	P	
39	**K**	1	**3.592**	ug/l	3.59	82.0	450000	45	P	
44	**Ca**	1	**-0.632**	ug/l	-0.63	25.6	450000	45	P	
47	**Ti**	1	**0.041**	ug/l	0.04	32.1	4500	45	P	
51	**V**	1	**0.026**	ug/l	0.03	55.6	4500	74	P	
52	**Cr**	1	**0.010**	ug/l	0.01	81.5	4500	74	P	
55	**Mn**	1	**-0.002**	ug/l	0.00	225.0	4500	74	P	
56	**Fe**	1	**1.536**	ug/l	1.54	5.3	450000	74	P	
59	**Co**	1	**-0.001**	ug/l	0.00	98.1	4500	74	P	
60	**Ni**	1	**0.009**	ug/l	0.01	8.2	4500	74	P	
63	**Cu**	1	**-0.010**	ug/l	-0.01	44.4	4500	74	P	
66	**Zn**	1	**0.030**	ug/l	0.03	50.2	4500	74	P	
75	**As**	1	**0.021**	ug/l	0.02	141.5	4500	74	P	
78	**Se**	1	**0.096**	ug/l	0.10	34.9	4500	74	P	
88	**Sr**	1	**0.003**	ug/l	0.00	278.8	4500	103	P	
95	**Mo**	1	**0.047**	ug/l	0.05	30.3	4500	103	P	
109	**Ag**	1	**-0.001**	ug/l	0.00	72.2	4500	103	P	
111	**Cd**	1	**0.003**	ug/l	0.00	180.7	4500	103	P	
118	**Sn**	1	**0.169**	ug/l	0.17	25.3	4500	103	P	
123	**Sb**	1	**0.053**	ug/l	0.05	21.4	4500	103	P	
135	**Ba**	1	**0.000**	ug/l	0.00	50141.0	4500	103	P	
200	**Hg**	1	**0.017**	ug/l	0.02	19.2	45	209	P	
205	**Tl**	1	**0.162**	ug/l	0.16	13.2	4500	209	P	
208	**Pb**	1	**0.000**	ug/l	0.00	180.3	4500	209	P	
238	**U**	1	**0.010**	ug/l	0.01	14.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	95663	0.18	96090	**99.6**	30	-	125	
45	Sc	1	1793714	2.04	1758000	**102.0**	30	-	125	
74	Ge	1	4188779	2.11	4097000	**102.2**	30	-	125	
103	Rh	1	5874669	1.22	5915000	**99.3**	30	-	125	
165	Ho	1	2616620	0.47	2615000	**100.1**	30	-	125	
175	Lu	1	2155347	0.52	2149000	**100.3**	30	-	125	
209	Bi	1	2761489	1.07	2737000	**100.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\012SMPL.D\012SMPL.D#
Date Acquired: Aug 5 2011 08:51 am Acq. Method: 00He_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.092**	ug/l	2.09	1.3	900	74	P	
23	**Na**	1	**211.700**	ug/l	211.70	3.9	450000	45	P	
24	**Mg**	1	**216.000**	ug/l	216.00	2.3	450000	45	P	
27	**Al**	1	**20.490**	ug/l	20.49	4.6	450000	45	P	
31	**P**	1	**201.900**	ug/l	201.90	4.7	450000	45	P	
39	**K**	1	**220.200**	ug/l	220.20	2.9	450000	45	P	
44	**Ca**	1	**204.900**	ug/l	204.90	2.7	450000	45	P	
47	**Ti**	1	**2.126**	ug/l	2.13	9.5	4500	45	P	
51	**V**	1	**2.101**	ug/l	2.10	0.7	4500	74	P	
52	**Cr**	1	**2.095**	ug/l	2.10	0.6	4500	74	P	
55	**Mn**	1	**2.109**	ug/l	2.11	2.4	4500	74	P	
56	**Fe**	1	**215.300**	ug/l	215.30	1.5	450000	74	A	
59	**Co**	1	**2.134**	ug/l	2.13	0.9	4500	74	P	
60	**Ni**	1	**2.167**	ug/l	2.17	2.9	4500	74	P	
63	**Cu**	1	**2.203**	ug/l	2.20	2.2	4500	74	P	
66	**Zn**	1	**1.806**	ug/l	1.81	4.3	4500	74	P	
75	**As**	1	**2.140**	ug/l	2.14	3.0	4500	74	P	
78	**Se**	1	**2.172**	ug/l	2.17	3.7	4500	74	P	
88	**Sr**	1	**2.059**	ug/l	2.06	1.7	4500	103	P	
95	**Mo**	1	**2.015**	ug/l	2.02	0.6	4500	103	P	
109	**Ag**	1	**2.110**	ug/l	2.11	2.6	4500	103	P	
111	**Cd**	1	**2.041**	ug/l	2.04	3.0	4500	103	P	
118	**Sn**	1	**2.050**	ug/l	2.05	4.4	4500	103	P	
123	**Sb**	1	**2.055**	ug/l	2.06	3.2	4500	103	P	
135	**Ba**	1	**2.068**	ug/l	2.07	4.8	4500	103	P	
200	**Hg**	1	**0.120**	ug/l	0.12	12.0	45	209	P	
205	**Tl**	1	**2.028**	ug/l	2.03	4.1	4500	209	P	
208	**Pb**	1	**2.081**	ug/l	2.08	1.7	4500	209	P	
238	**U**	1	**2.035**	ug/l	2.04	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	94663	0.71	96090	**98.5**	30 - 125	
45	Sc	1	1825832	2.51	1758000	**103.9**	30 - 125	
74	Ge	1	4151937	0.62	4097000	**101.3**	30 - 125	
103	Rh	1	5906005	1.58	5915000	**99.8**	30 - 125	
165	Ho	1	2661016	0.45	2615000	**101.8**	30 - 125	
175	Lu	1	2158571	1.44	2149000	**100.4**	30 - 125	
209	Bi	1	2799974	0.79	2737000	**102.3**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\013SMPL.D\013SMPL.D#
Date Acquired: Aug 5 2011 08:56 am Acq. Method: 00He_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.001**	ug/l	0.00	299.5	900	74	P	
23	**Na**	1	**50670.000**	ug/l	50,670.00	0.4	450000	45	A	
24	**Mg**	1	**19960.000**	ug/l	19,960.00	0.5	450000	45	A	
27	**Al**	1	**19270.000**	ug/l	19,270.00	0.9	450000	45	A	
31	**P**	1	**20730.000**	ug/l	20,730.00	1.4	450000	45	A	
39	**K**	1	**20090.000**	ug/l	20,090.00	1.1	450000	45	A	
44	**Ca**	1	**58220.000**	ug/l	58,220.00	1.5	450000	45	A	
47	**Ti**	1	**403.100**	ug/l	403.10	0.4	4500	45	P	
51	**V**	1	**-0.264**	ug/l	-0.26	6.8	4500	74	P	
52	**Cr**	1	**1.261**	ug/l	1.26	2.4	4500	74	P	
55	**Mn**	1	**0.958**	ug/l	0.96	3.8	4500	74	P	
56	**Fe**	1	**50240.000**	ug/l	50,240.00	1.3	450000	74	A	
59	**Co**	1	**0.023**	ug/l	0.02	20.9	4500	74	P	
60	**Ni**	1	**0.671**	ug/l	0.67	4.5	4500	74	P	
63	**Cu**	1	**0.316**	ug/l	0.32	2.5	4500	74	P	
66	**Zn**	1	**1.580**	ug/l	1.58	11.3	4500	74	P	
75	**As**	1	**-0.016**	ug/l	-0.02	38.1	4500	74	P	
78	**Se**	1	**0.126**	ug/l	0.13	41.9	4500	74	P	
88	**Sr**	1	**-0.830**	ug/l	-0.83	6.7	4500	103	P	
95	**Mo**	1	**422.400**	ug/l	422.40	1.3	4500	103	A	
109	**Ag**	1	**0.022**	ug/l	0.02	9.2	4500	103	P	
111	**Cd**	1	**0.041**	ug/l	0.04	72.8	4500	103	P	
118	**Sn**	1	**0.271**	ug/l	0.27	6.5	4500	103	P	
123	**Sb**	1	**0.150**	ug/l	0.15	12.1	4500	103	P	
135	**Ba**	1	**0.148**	ug/l	0.15	15.6	4500	103	P	
200	**Hg**	1	**0.013**	ug/l	0.01	24.2	45	209	P	
205	**Tl**	1	**0.063**	ug/l	0.06	1.8	4500	209	P	
208	**Pb**	1	**0.108**	ug/l	0.11	18.3	4500	209	P	
238	**U**	1	**0.005**	ug/l	0.00	16.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	93786	1.66	96090	**97.6**	30 - 125	
45	Sc	1	1827684	0.74	1758000	**104.0**	30 - 125	
74	Ge	1	4040741	1.53	4097000	**98.6**	30 - 125	
103	Rh	1	5234829	1.11	5915000	**88.5**	30 - 125	
165	Ho	1	2476244	1.38	2615000	**94.7**	30 - 125	
175	Lu	1	2052252	0.82	2149000	**95.5**	30 - 125	
209	Bi	1	2409627	1.84	2737000	**88.0**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\014SMPL.D\014SMPL.D#
Date Acquired: Aug 5 2011 09:00 am Acq. Method: 00He_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.003**	ug/l	0.00	118.7	900	74	P	
23	**Na**	1	**50330.000**	ug/l	50,330.00	1.7	450000	45	A	
24	**Mg**	1	**19940.000**	ug/l	19,940.00	1.2	450000	45	A	
27	**Al**	1	**18960.000**	ug/l	18,960.00	2.7	450000	45	A	
31	**P**	1	**20740.000**	ug/l	20,740.00	1.4	450000	45	A	
39	**K**	1	**19770.000**	ug/l	19,770.00	0.4	450000	45	A	
44	**Ca**	1	**56730.000**	ug/l	56,730.00	1.9	450000	45	A	
47	**Ti**	1	**392.900**	ug/l	392.90	0.9	4500	45	P	
51	**V**	1	**41.130**	ug/l	41.13	0.5	4500	74	P	
52	**Cr**	1	**41.140**	ug/l	41.14	0.3	4500	74	P	
55	**Mn**	1	**40.590**	ug/l	40.59	0.7	4500	74	P	
56	**Fe**	1	**49760.000**	ug/l	49,760.00	0.4	450000	74	A	
59	**Co**	1	**40.700**	ug/l	40.70	0.8	4500	74	P	
60	**Ni**	1	**40.410**	ug/l	40.41	0.5	4500	74	P	
63	**Cu**	1	**38.970**	ug/l	38.97	0.8	4500	74	P	
66	**Zn**	1	**20.210**	ug/l	20.21	1.4	4500	74	P	
75	**As**	1	**20.820**	ug/l	20.82	1.0	4500	74	P	
78	**Se**	1	**20.230**	ug/l	20.23	0.7	4500	74	P	
88	**Sr**	1	**-0.750**	ug/l	-0.75	1.3	4500	103	P	
95	**Mo**	1	**421.800**	ug/l	421.80	0.9	4500	103	A	
109	**Ag**	1	**10.370**	ug/l	10.37	1.5	4500	103	P	
111	**Cd**	1	**21.100**	ug/l	21.10	1.5	4500	103	P	
118	**Sn**	1	**0.070**	ug/l	0.07	24.7	4500	103	P	
123	**Sb**	1	**0.137**	ug/l	0.14	10.6	4500	103	P	
135	**Ba**	1	**0.096**	ug/l	0.10	23.8	4500	103	P	
200	**Hg**	1	**0.008**	ug/l	0.01	33.3	45	209	P	
205	**Tl**	1	**0.039**	ug/l	0.04	8.5	4500	209	P	
208	**Pb**	1	**0.029**	ug/l	0.03	58.1	4500	209	P	
238	**U**	1	**0.002**	ug/l	0.00	38.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	93899	0.32	96090	**97.7**	30	-	125	
45	Sc	1	1833613	0.65	1758000	**104.3**	30	-	125	
74	Ge	1	4036237	0.59	4097000	**98.5**	30	-	125	
103	Rh	1	5234484	0.72	5915000	**88.5**	30	-	125	
165	Ho	1	2483206	0.67	2615000	**95.0**	30	-	125	
175	Lu	1	2063848	1.43	2149000	**96.0**	30	-	125	
209	Bi	1	2388259	2.18	2737000	**87.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\015SMPL.D\015SMPL.D#
Date Acquired: Aug 5 2011 09:05 am Acq. Method: 00He_ALL.M
Sample Name: 5000 PPB (As, Pb) LDR STD Vial Number: 1202
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.004**	ug/l	0.00	33.0	900	74	P	
23	**Na**	1	**-4.595**	ug/l	-4.60	34.1	450000	45	P	
24	**Mg**	1	**0.378**	ug/l	0.38	18.3	450000	45	P	
27	**Al**	1	**-0.650**	ug/l	-0.65	18.6	450000	45	P	
31	**P**	1	**0.142**	ug/l	0.14	1430.1	450000	45	P	
39	**K**	1	**1.457**	ug/l	1.46	201.6	450000	45	P	
44	**Ca**	1	**6.509**	ug/l	6.51	11.4	450000	45	P	
47	**Ti**	1	**0.111**	ug/l	0.11	14.0	4500	45	P	
51	**V**	1	**-0.099**	ug/l	-0.10	22.2	4500	74	P	
52	**Cr**	1	**0.225**	ug/l	0.23	6.8	4500	74	P	
55	**Mn**	1	**-0.004**	ug/l	0.00	121.5	4500	74	P	
56	**Fe**	1	**8.068**	ug/l	8.07	2.0	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	1495.9	4500	74	P	
60	**Ni**	1	**0.033**	ug/l	0.03	24.6	4500	74	P	
63	**Cu**	1	**0.022**	ug/l	0.02	54.9	4500	74	P	
66	**Zn**	1	**0.212**	ug/l	0.21	20.3	4500	74	P	
75	**As**	1	**4743.000**	ug/l	4,743.00	1.2	4500	74	A	Fail
78	**Se**	1	**0.090**	ug/l	0.09	18.3	4500	74	P	
88	**Sr**	1	**0.015**	ug/l	0.02	29.3	4500	103	P	
95	**Mo**	1	**0.236**	ug/l	0.24	10.9	4500	103	P	
109	**Ag**	1	**0.001**	ug/l	0.00	188.5	4500	103	P	
111	**Cd**	1	**-0.001**	ug/l	0.00	900.6	4500	103	P	
118	**Sn**	1	**0.037**	ug/l	0.04	43.7	4500	103	P	
123	**Sb**	1	**0.012**	ug/l	0.01	33.1	4500	103	P	
135	**Ba**	1	**0.011**	ug/l	0.01	60.2	4500	103	P	
200	**Hg**	1	**0.004**	ug/l	0.00	61.0	45	209	P	
205	**Tl**	1	**0.210**	ug/l	0.21	7.3	4500	209	P	
208	**Pb**	1	**4927.000**	ug/l	4,927.00	1.0	4500	209	A	Fail
238	**U**	1	**-0.002**	ug/l	0.00	16.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	95938	0.61	96090	**99.8**	30	-	125	
45	Sc	1	1816547	1.81	1758000	**103.3**	30	-	125	
74	Ge	1	4155074	0.97	4097000	**101.4**	30	-	125	
103	Rh	1	5935912	1.18	5915000	**100.4**	30	-	125	
165	Ho	1	2599169	0.96	2615000	**99.4**	30	-	125	
175	Lu	1	2172323	1.37	2149000	**101.1**	30	-	125	
209	Bi	1	2777050	0.89	2737000	**101.5**	30	-	125	

Analytes: **Fail** **ISTD:** **Pass**

2 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\016SMPL.D\016SMPL.D#
Date Acquired: Aug 5 2011 09:10 am Acq. Method: 00He_ALL.M
Sample Name: 1000 PPB LDR STD Vial Number: 1201
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1008.000**	ug/l	1,008.00	0.7	900	74	P	Fail
23	**Na**	1	**4.707**	ug/l	4.71	54.5	450000	45	P	
24	**Mg**	1	**1.325**	ug/l	1.33	5.3	450000	45	P	
27	**Al**	1	**4.913**	ug/l	4.91	2.5	450000	45	P	
31	**P**	1	**0.871**	ug/l	0.87	263.4	450000	45	P	
39	**K**	1	**13.320**	ug/l	13.32	24.9	450000	45	P	
44	**Ca**	1	**5.751**	ug/l	5.75	12.9	450000	45	P	
47	**Ti**	1	**0.093**	ug/l	0.09	20.8	4500	45	P	
51	**V**	1	**1023.000**	ug/l	1,023.00	0.8	4500	74	A	
52	**Cr**	1	**1029.000**	ug/l	1,029.00	0.7	4500	74	A	
55	**Mn**	1	**984.200**	ug/l	984.20	0.2	4500	74	A	
56	**Fe**	1	**5.868**	ug/l	5.87	0.9	450000	74	P	
59	**Co**	1	**1015.000**	ug/l	1,015.00	1.4	4500	74	A	
60	**Ni**	1	**995.300**	ug/l	995.30	1.0	4500	74	A	
63	**Cu**	1	**989.600**	ug/l	989.60	0.6	4500	74	A	
66	**Zn**	1	**987.100**	ug/l	987.10	1.4	4500	74	A	
75	**As**	1	**1008.000**	ug/l	1,008.00	0.8	4500	74	A	
78	**Se**	1	**1016.000**	ug/l	1,016.00	0.8	4500	74	P	
88	**Sr**	1	**0.023**	ug/l	0.02	21.5	4500	103	P	
95	**Mo**	1	**0.104**	ug/l	0.10	9.3	4500	103	P	
109	**Ag**	1	**0.002**	ug/l	0.00	69.3	4500	103	P	
111	**Cd**	1	**985.500**	ug/l	985.50	0.5	4500	103	A	
118	**Sn**	1	**0.104**	ug/l	0.10	18.2	4500	103	P	
123	**Sb**	1	**0.027**	ug/l	0.03	25.8	4500	103	P	
135	**Ba**	1	**998.100**	ug/l	998.10	0.5	4500	103	A	
200	**Hg**	1	**0.005**	ug/l	0.00	35.9	45	209	P	
205	**Tl**	1	**0.053**	ug/l	0.05	6.4	4500	209	P	
208	**Pb**	1	**997.900**	ug/l	997.90	1.0	4500	209	A	
238	**U**	1	**0.003**	ug/l	0.00	51.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	93240	0.58	96090	**97.0**	30 - 125	
45	Sc	1	1776381	1.47	1758000	**101.0**	30 - 125	
74	Ge	1	4063166	0.32	4097000	**99.2**	30 - 125	
103	Rh	1	5773714	0.86	5915000	**97.6**	30 - 125	
165	Ho	1	2603515	2.04	2615000	**99.6**	30 - 125	
175	Lu	1	2171279	0.86	2149000	**101.0**	30 - 125	
209	Bi	1	2757705	1.01	2737000	**100.8**	30 - 125	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\017SMPL.D\017SMPL.D#
Date Acquired: Aug 5 2011 09:14 am Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**50.300**	ug/l	50.30	0.1	900	74	P	
23	**Na**	1	**5027.000**	ug/l	5,027.00	1.5	450000	45	A	
24	**Mg**	1	**4991.000**	ug/l	4,991.00	1.4	450000	45	A	
27	**Al**	1	**505.400**	ug/l	505.40	0.7	450000	45	P	
31	**P**	1	**4973.000**	ug/l	4,973.00	1.2	450000	45	P	
39	**K**	1	**5054.000**	ug/l	5,054.00	1.0	450000	45	A	
44	**Ca**	1	**4981.000**	ug/l	4,981.00	0.9	450000	45	P	
47	**Ti**	1	**49.630**	ug/l	49.63	1.0	4500	45	P	
51	**V**	1	**49.750**	ug/l	49.75	0.1	4500	74	P	
52	**Cr**	1	**50.060**	ug/l	50.06	0.5	4500	74	P	
55	**Mn**	1	**50.440**	ug/l	50.44	0.4	4500	74	P	
56	**Fe**	1	**5032.000**	ug/l	5,032.00	0.5	450000	74	A	
59	**Co**	1	**50.280**	ug/l	50.28	0.7	4500	74	P	
60	**Ni**	1	**50.170**	ug/l	50.17	1.4	4500	74	P	
63	**Cu**	1	**50.320**	ug/l	50.32	1.1	4500	74	P	
66	**Zn**	1	**48.540**	ug/l	48.54	1.6	4500	74	P	
75	**As**	1	**49.970**	ug/l	49.97	0.7	4500	74	P	
78	**Se**	1	**50.860**	ug/l	50.86	0.2	4500	74	P	
88	**Sr**	1	**49.580**	ug/l	49.58	0.5	4500	103	P	
95	**Mo**	1	**48.680**	ug/l	48.68	1.5	4500	103	P	
109	**Ag**	1	**49.840**	ug/l	49.84	0.9	4500	103	P	
111	**Cd**	1	**50.300**	ug/l	50.30	1.8	4500	103	P	
118	**Sn**	1	**49.130**	ug/l	49.13	2.0	4500	103	P	
123	**Sb**	1	**49.510**	ug/l	49.51	1.7	4500	103	P	
135	**Ba**	1	**48.890**	ug/l	48.89	2.0	4500	103	P	
200	**Hg**	1	**2.397**	ug/l	2.40	1.3	45	209	P	
205	**Tl**	1	**47.340**	ug/l	47.34	5.4	4500	209	A	
208	**Pb**	1	**48.990**	ug/l	48.99	0.6	4500	209	P	
238	**U**	1	**48.440**	ug/l	48.44	0.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	93937	1.31	96090	**97.8**	30 - 125	
45	Sc	1	1813702	1.72	1758000	**103.2**	30 - 125	
74	Ge	1	4129359	0.77	4097000	**100.8**	30 - 125	
103	Rh	1	5722188	0.91	5915000	**96.7**	30 - 125	
165	Ho	1	2614075	1.72	2615000	**100.0**	30 - 125	
175	Lu	1	2171151	0.43	2149000	**101.0**	30 - 125	
209	Bi	1	2723303	0.10	2737000	**99.5**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\018SMPL.D\018SMPL.D#
Date Acquired: Aug 5 2011 09:19 am Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.037**	ug/l	0.04	46.6	900	74	P	
23	**Na**	1	**-4.986**	ug/l	-4.99	38.9	450000	45	P	
24	**Mg**	1	**0.054**	ug/l	0.05	37.5	450000	45	P	
27	**Al**	1	**-0.221**	ug/l	-0.22	77.1	450000	45	P	
31	**P**	1	**3.489**	ug/l	3.49	35.1	450000	45	P	
39	**K**	1	**6.745**	ug/l	6.75	57.0	450000	45	P	
44	**Ca**	1	**-0.939**	ug/l	-0.94	68.2	450000	45	P	
47	**Ti**	1	**0.030**	ug/l	0.03	28.1	4500	45	P	
51	**V**	1	**-0.014**	ug/l	-0.01	113.9	4500	74	P	
52	**Cr**	1	**0.020**	ug/l	0.02	71.5	4500	74	P	
55	**Mn**	1	**0.000**	ug/l	0.00	1037.3	4500	74	P	
56	**Fe**	1	**1.928**	ug/l	1.93	5.2	450000	74	P	
59	**Co**	1	**0.002**	ug/l	0.00	27.9	4500	74	P	
60	**Ni**	1	**0.001**	ug/l	0.00	1346.7	4500	74	P	
63	**Cu**	1	**0.012**	ug/l	0.01	101.5	4500	74	P	
66	**Zn**	1	**0.039**	ug/l	0.04	124.0	4500	74	P	
75	**As**	1	**0.027**	ug/l	0.03	19.3	4500	74	P	
78	**Se**	1	**0.058**	ug/l	0.06	54.0	4500	74	P	
88	**Sr**	1	**0.006**	ug/l	0.01	203.3	4500	103	P	
95	**Mo**	1	**0.043**	ug/l	0.04	42.9	4500	103	P	
109	**Ag**	1	**0.000**	ug/l	0.00	1082.3	4500	103	P	
111	**Cd**	1	**0.000**	ug/l	0.00	2270800.0	4500	103	P	
118	**Sn**	1	**0.134**	ug/l	0.13	12.0	4500	103	P	
123	**Sb**	1	**0.025**	ug/l	0.02	39.9	4500	103	P	
135	**Ba**	1	**0.016**	ug/l	0.02	74.2	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.01	22.7	45	209	P	
205	**Tl**	1	**0.141**	ug/l	0.14	7.7	4500	209	P	
208	**Pb**	1	**0.010**	ug/l	0.01	114.1	4500	209	P	
238	**U**	1	**0.007**	ug/l	0.01	21.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	95384	0.55	96090	**99.3**	30	-	125	
45	Sc	1	1788165	2.34	1758000	**101.7**	30	-	125	
74	Ge	1	4134564	0.12	4097000	**100.9**	30	-	125	
103	Rh	1	5917359	0.46	5915000	**100.0**	30	-	125	
165	Ho	1	2657612	1.52	2615000	**101.6**	30	-	125	
175	Lu	1	2189714	0.68	2149000	**101.9**	30	-	125	
209	Bi	1	2806030	0.74	2737000	**102.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\019SMPL.D\019SMPL.D#
Date Acquired: Aug 5 2011 09:24 am Acq. Method: 00He_ALL.M
Sample Name: MB 580-91886/1-B Vial Number: 2101
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.022**	ug/l	0.22	17.1	900	74	P	
23	**Na**	1	**5047.000**	ug/l	50,470.00	1.9	450000	45	A	
24	**Mg**	1	**1.919**	ug/l	19.19	4.5	450000	45	P	
27	**Al**	1	**-1.563**	ug/l	-15.63	3.9	450000	45	P	
31	**P**	1	**2.532**	ug/l	25.32	85.0	450000	45	P	
39	**K**	1	**11.010**	ug/l	110.10	14.7	450000	45	P	
44	**Ca**	1	**8.787**	ug/l	87.87	9.7	450000	45	P	
47	**Ti**	1	**0.013**	ug/l	0.13	117.7	4500	45	P	
51	**V**	1	**-0.280**	ug/l	-2.80	1.6	4500	74	P	
52	**Cr**	1	**-0.013**	ug/l	-0.13	26.8	4500	74	P	
55	**Mn**	1	**-0.025**	ug/l	-0.25	9.7	4500	74	P	
56	**Fe**	1	**0.628**	ug/l	6.28	11.6	450000	74	P	
59	**Co**	1	**0.003**	ug/l	0.03	56.3	4500	74	P	
60	**Ni**	1	**0.006**	ug/l	0.06	145.6	4500	74	P	
63	**Cu**	1	**-0.016**	ug/l	-0.16	43.7	4500	74	P	
66	**Zn**	1	**0.085**	ug/l	0.85	34.4	4500	74	P	
75	**As**	1	**-0.031**	ug/l	-0.31	30.6	4500	74	P	
78	**Se**	1	**0.065**	ug/l	0.65	86.9	4500	74	P	
88	**Sr**	1	**0.011**	ug/l	0.11	68.8	4500	103	P	
95	**Mo**	1	**0.018**	ug/l	0.18	29.5	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	-0.02	44.2	4500	103	P	
111	**Cd**	1	**0.002**	ug/l	0.02	398.3	4500	103	P	
118	**Sn**	1	**0.043**	ug/l	0.43	40.4	4500	103	P	
123	**Sb**	1	**0.005**	ug/l	0.05	58.6	4500	103	P	
135	**Ba**	1	**0.995**	ug/l	9.95	3.1	4500	103	P	
200	**Hg**	1	**0.004**	ug/l	0.04	72.9	45	209	P	
205	**Tl**	1	**0.062**	ug/l	0.62	8.3	4500	209	P	
208	**Pb**	1	**0.012**	ug/l	0.12	183.9	4500	209	P	
238	**U**	1	**0.000**	ug/l	0.00	289.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	100852	1.87	96090	**105.0**	30	-	125	
45	Sc	1	1888100	1.04	1758000	**107.4**	30	-	125	
74	Ge	1	4224968	1.06	4097000	**103.1**	30	-	125	
103	Rh	1	5883502	0.82	5915000	**99.5**	30	-	125	
165	Ho	1	2574497	0.51	2615000	**98.5**	30	-	125	
175	Lu	1	2142620	0.10	2149000	**99.7**	30	-	125	
209	Bi	1	2651377	2.40	2737000	**96.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\020SMPL.D\020SMPL.D#
Date Acquired: Aug 5 2011 09:29 am Acq. Method: 00He_ALL.M
Sample Name: 580-27782-B-1-C SD Vial Number: 2102
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.022**	ug/l	1.08	61.8	900	74	P	
23	**Na**	1	**34060.000**	ug/l	1,703,000.00	0.8	450000	45	A	
24	**Mg**	1	**142.400**	ug/l	7,120.00	1.3	450000	45	P	
27	**Al**	1	**10.550**	ug/l	527.50	3.8	450000	45	P	
31	**P**	1	**4.575**	ug/l	228.75	9.4	450000	45	P	
39	**K**	1	**108.900**	ug/l	5,445.00	2.3	450000	45	P	
44	**Ca**	1	**550.100**	ug/l	27,505.00	0.7	450000	45	P	
47	**Ti**	1	**0.055**	ug/l	2.75	37.1	4500	45	P	
51	**V**	1	**-0.253**	ug/l	-12.66	1.0	4500	74	P	
52	**Cr**	1	**0.175**	ug/l	8.73	5.2	4500	74	P	
55	**Mn**	1	**25.300**	ug/l	1,265.00	0.3	4500	74	P	
56	**Fe**	1	**2.566**	ug/l	128.30	0.7	450000	74	P	
59	**Co**	1	**0.324**	ug/l	16.18	3.6	4500	74	P	
60	**Ni**	1	**0.302**	ug/l	15.09	8.2	4500	74	P	
63	**Cu**	1	**0.209**	ug/l	10.43	7.7	4500	74	P	
66	**Zn**	1	**6.270**	ug/l	313.50	4.1	4500	74	P	
75	**As**	1	**-0.004**	ug/l	-0.21	388.0	4500	74	P	
78	**Se**	1	**0.127**	ug/l	6.36	13.9	4500	74	P	
88	**Sr**	1	**3.773**	ug/l	188.65	2.2	4500	103	P	
95	**Mo**	1	**0.024**	ug/l	1.21	74.3	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	-0.14	26.8	4500	103	P	
111	**Cd**	1	**0.014**	ug/l	0.72	60.6	4500	103	P	
118	**Sn**	1	**0.024**	ug/l	1.18	17.4	4500	103	P	
123	**Sb**	1	**0.004**	ug/l	0.22	64.3	4500	103	P	
135	**Ba**	1	**15.760**	ug/l	788.00	3.5	4500	103	P	
200	**Hg**	1	**0.005**	ug/l	0.24	7.6	45	209	P	
205	**Tl**	1	**0.037**	ug/l	1.83	17.5	4500	209	P	
208	**Pb**	1	**0.042**	ug/l	2.09	26.1	4500	209	P	
238	**U**	1	**0.006**	ug/l	0.31	12.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	97359	0.38	96090	**101.3**	30	-	125	
45	Sc	1	1865069	0.06	1758000	**106.1**	30	-	125	
74	Ge	1	4147490	1.27	4097000	**101.2**	30	-	125	
103	Rh	1	5757279	1.38	5915000	**97.3**	30	-	125	
165	Ho	1	2588593	0.67	2615000	**99.0**	30	-	125	
175	Lu	1	2134287	1.38	2149000	**99.3**	30	-	125	
209	Bi	1	2562506	1.26	2737000	**93.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\021SMPL.D\021SMPL.D#
Date Acquired: Aug 5 2011 09:33 am Acq. Method: 00He_ALL.M
Sample Name: 580-27782-B-1-C Vial Number: 2103
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.024**	ug/l	0.24	6.7	900	74	P	
23	**Na**	1	**166200.000**	ug/l	1,662,000.00	1.7	450000	45	A	
24	**Mg**	1	**687.800**	ug/l	6,878.00	0.1	450000	45	A	
27	**Al**	1	**43.010**	ug/l	430.10	2.7	450000	45	P	
31	**P**	1	**12.250**	ug/l	122.50	6.1	450000	45	P	
39	**K**	1	**486.100**	ug/l	4,861.00	2.6	450000	45	P	
44	**Ca**	1	**2645.000**	ug/l	26,450.00	1.2	450000	45	P	
47	**Ti**	1	**0.251**	ug/l	2.51	15.9	4500	45	P	
51	**V**	1	**0.011**	ug/l	0.11	108.4	4500	74	P	
52	**Cr**	1	**0.999**	ug/l	9.99	5.6	4500	74	P	
55	**Mn**	1	**122.100**	ug/l	1,221.00	0.8	4500	74	P	
56	**Fe**	1	**10.490**	ug/l	104.90	2.6	450000	74	P	
59	**Co**	1	**1.457**	ug/l	14.57	1.9	4500	74	P	
60	**Ni**	1	**1.428**	ug/l	14.28	1.1	4500	74	P	
63	**Cu**	1	**1.051**	ug/l	10.51	1.7	4500	74	P	
66	**Zn**	1	**31.920**	ug/l	319.20	1.0	4500	74	P	
75	**As**	1	**0.079**	ug/l	0.79	51.6	4500	74	P	
78	**Se**	1	**0.093**	ug/l	0.93	31.8	4500	74	P	
88	**Sr**	1	**18.460**	ug/l	184.60	0.5	4500	103	P	
95	**Mo**	1	**0.063**	ug/l	0.63	38.5	4500	103	P	
109	**Ag**	1	**0.000**	ug/l	0.00	928.8	4500	103	P	
111	**Cd**	1	**0.046**	ug/l	0.46	13.1	4500	103	P	
118	**Sn**	1	**0.051**	ug/l	0.51	26.2	4500	103	P	
123	**Sb**	1	**0.014**	ug/l	0.14	23.4	4500	103	P	
135	**Ba**	1	**78.440**	ug/l	784.40	1.7	4500	103	P	
200	**Hg**	1	**0.004**	ug/l	0.04	44.5	45	209	P	
205	**Tl**	1	**0.032**	ug/l	0.32	3.9	4500	209	P	
208	**Pb**	1	**0.204**	ug/l	2.04	10.1	4500	209	P	
238	**U**	1	**0.030**	ug/l	0.30	6.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	92273	1.94	96090	**96.0**	30	-	125	
45	Sc	1	1791131	2.08	1758000	**101.9**	30	-	125	
74	Ge	1	4002540	0.10	4097000	**97.7**	30	-	125	
103	Rh	1	5352465	0.98	5915000	**90.5**	30	-	125	
165	Ho	1	2492214	0.68	2615000	**95.3**	30	-	125	
175	Lu	1	2073967	1.69	2149000	**96.5**	30	-	125	
209	Bi	1	2469541	0.59	2737000	**90.2**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\022SMPL.D\022SMPL.D#
Date Acquired: Aug 5 2011 09:38 am Acq. Method: 00He_ALL.M
Sample Name: 580-27782-B-1-D DU Vial Number: 2104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.024**	ug/l	0.24	27.8	900	74	P	
23	**Na**	1	**161900.000**	ug/l	1,619,000.00	0.5	450000	45	A	
24	**Mg**	1	**657.400**	ug/l	6,574.00	2.3	450000	45	A	
27	**Al**	1	**42.550**	ug/l	425.50	2.9	450000	45	P	
31	**P**	1	**9.564**	ug/l	95.64	15.4	450000	45	P	
39	**K**	1	**473.600**	ug/l	4,736.00	1.6	450000	45	P	
44	**Ca**	1	**2581.000**	ug/l	25,810.00	0.7	450000	45	P	
47	**Ti**	1	**0.203**	ug/l	2.03	11.2	4500	45	P	
51	**V**	1	**0.003**	ug/l	0.03	365.5	4500	74	P	
52	**Cr**	1	**0.933**	ug/l	9.33	2.2	4500	74	P	
55	**Mn**	1	**118.000**	ug/l	1,180.00	0.2	4500	74	P	
56	**Fe**	1	**10.060**	ug/l	100.60	0.9	450000	74	P	
59	**Co**	1	**1.420**	ug/l	14.20	1.2	4500	74	P	
60	**Ni**	1	**1.368**	ug/l	13.68	0.8	4500	74	P	
63	**Cu**	1	**1.056**	ug/l	10.56	0.7	4500	74	P	
66	**Zn**	1	**31.360**	ug/l	313.60	1.7	4500	74	P	
75	**As**	1	**0.089**	ug/l	0.89	8.7	4500	74	P	
78	**Se**	1	**0.186**	ug/l	1.86	29.3	4500	74	P	
88	**Sr**	1	**18.290**	ug/l	182.90	1.3	4500	103	P	
95	**Mo**	1	**0.083**	ug/l	0.83	19.2	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	-0.02	141.1	4500	103	P	
111	**Cd**	1	**0.032**	ug/l	0.32	21.8	4500	103	P	
118	**Sn**	1	**0.033**	ug/l	0.33	57.0	4500	103	P	
123	**Sb**	1	**0.010**	ug/l	0.10	74.4	4500	103	P	
135	**Ba**	1	**76.850**	ug/l	768.50	1.4	4500	103	P	
200	**Hg**	1	**0.001**	ug/l	0.01	267.7	45	209	P	
205	**Tl**	1	**0.020**	ug/l	0.20	29.5	4500	209	P	
208	**Pb**	1	**0.214**	ug/l	2.14	3.2	4500	209	P	
238	**U**	1	**0.026**	ug/l	0.26	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	90464	0.28	96090	**94.1**	30 - 125	
45	Sc	1	1801132	2.43	1758000	**102.5**	30 - 125	
74	Ge	1	4001509	1.03	4097000	**97.7**	30 - 125	
103	Rh	1	5321630	0.03	5915000	**90.0**	30 - 125	
165	Ho	1	2507072	0.31	2615000	**95.9**	30 - 125	
175	Lu	1	2060588	1.42	2149000	**95.9**	30 - 125	
209	Bi	1	2434766	0.76	2737000	**89.0**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\023SMPL.D\023SMPL.D#
Date Acquired: Aug 5 2011 09:43 am Acq. Method: 00He_ALL.M
Sample Name: 580-27782-B-1-E MS Vial Number: 2105
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.189**	ug/l	109.45	4.3	900	74	P	
23	**Na**	1	**33390.000**	ug/l	1,669,500.00	2.2	450000	45	A	
24	**Mg**	1	**570.100**	ug/l	28,505.00	2.2	450000	45	P	
27	**Al**	1	**93.730**	ug/l	4,686.50	0.8	450000	45	P	
31	**P**	1	**429.400**	ug/l	21,470.00	2.2	450000	45	P	
39	**K**	1	**530.300**	ug/l	26,515.00	0.9	450000	45	A	
44	**Ca**	1	**930.600**	ug/l	46,530.00	1.8	450000	45	P	
47	**Ti**	1	**101.100**	ug/l	5,055.00	2.1	4500	45	P	
51	**V**	1	**21.690**	ug/l	1,084.50	2.8	4500	74	P	
52	**Cr**	1	**8.818**	ug/l	440.90	1.6	4500	74	P	
55	**Mn**	1	**45.750**	ug/l	2,287.50	0.7	4500	74	P	
56	**Fe**	1	**468.600**	ug/l	23,430.00	2.3	450000	74	A	
59	**Co**	1	**21.710**	ug/l	1,085.50	0.8	4500	74	P	
60	**Ni**	1	**21.860**	ug/l	1,093.00	1.3	4500	74	P	
63	**Cu**	1	**11.040**	ug/l	552.00	1.4	4500	74	P	
66	**Zn**	1	**27.540**	ug/l	1,377.00	0.8	4500	74	P	
75	**As**	1	**87.110**	ug/l	4,355.50	1.6	4500	74	P	
78	**Se**	1	**87.620**	ug/l	4,381.00	1.1	4500	74	P	
88	**Sr**	1	**3.561**	ug/l	178.05	1.7	4500	103	P	
95	**Mo**	1	**105.700**	ug/l	5,285.00	0.5	4500	103	P	
109	**Ag**	1	**12.680**	ug/l	634.00	1.0	4500	103	P	
111	**Cd**	1	**2.143**	ug/l	107.15	0.5	4500	103	P	
118	**Sn**	1	**102.900**	ug/l	5,145.00	0.8	4500	103	P	
123	**Sb**	1	**64.470**	ug/l	3,223.50	0.9	4500	103	P	
135	**Ba**	1	**100.900**	ug/l	5,045.00	1.2	4500	103	P	
200	**Hg**	1	**1.066**	ug/l	53.30	2.4	45	209	P	
205	**Tl**	1	**88.430**	ug/l	4,421.50	2.1	4500	209	A	
208	**Pb**	1	**21.860**	ug/l	1,093.00	2.4	4500	209	P	
238	**U**	1	**0.004**	ug/l	0.18	30.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	99590	1.20	96090	**103.6**	30	-	125	
45	Sc	1	1933746	1.59	1758000	**110.0**	30	-	125	
74	Ge	1	4219012	1.05	4097000	**103.0**	30	-	125	
103	Rh	1	5662583	0.48	5915000	**95.7**	30	-	125	
165	Ho	1	2579964	0.42	2615000	**98.7**	30	-	125	
175	Lu	1	2131410	1.32	2149000	**99.2**	30	-	125	
209	Bi	1	2566230	1.58	2737000	**93.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\024SMPL.D\024SMPL.D#
Date Acquired: Aug 5 2011 09:48 am Acq. Method: 00He_ALL.M
Sample Name: 580-27782-B-1-F MSD Vial Number: 2106
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.091**	ug/l	104.55	2.5	900	74	P	
23	**Na**	1	**32350.000**	ug/l	1,617,500.00	1.6	450000	45	A	
24	**Mg**	1	**558.100**	ug/l	27,905.00	0.9	450000	45	P	
27	**Al**	1	**91.810**	ug/l	4,590.50	1.7	450000	45	P	
31	**P**	1	**414.800**	ug/l	20,740.00	2.8	450000	45	P	
39	**K**	1	**520.900**	ug/l	26,045.00	1.6	450000	45	A	
44	**Ca**	1	**902.500**	ug/l	45,125.00	0.9	450000	45	P	
47	**Ti**	1	**98.310**	ug/l	4,915.50	1.4	4500	45	P	
51	**V**	1	**20.760**	ug/l	1,038.00	1.2	4500	74	P	
52	**Cr**	1	**8.425**	ug/l	421.25	1.0	4500	74	P	
55	**Mn**	1	**44.070**	ug/l	2,203.50	1.3	4500	74	P	
56	**Fe**	1	**461.200**	ug/l	23,060.00	2.2	450000	74	A	
59	**Co**	1	**21.140**	ug/l	1,057.00	0.5	4500	74	P	
60	**Ni**	1	**20.920**	ug/l	1,046.00	2.0	4500	74	P	
63	**Cu**	1	**10.590**	ug/l	529.50	0.4	4500	74	P	
66	**Zn**	1	**26.260**	ug/l	1,313.00	2.2	4500	74	P	
75	**As**	1	**83.810**	ug/l	4,190.50	0.9	4500	74	P	
78	**Se**	1	**84.870**	ug/l	4,243.50	2.2	4500	74	P	
88	**Sr**	1	**3.472**	ug/l	173.60	1.8	4500	103	P	
95	**Mo**	1	**101.800**	ug/l	5,090.00	0.6	4500	103	P	
109	**Ag**	1	**12.120**	ug/l	606.00	0.4	4500	103	P	
111	**Cd**	1	**2.174**	ug/l	108.70	1.6	4500	103	P	
118	**Sn**	1	**99.200**	ug/l	4,960.00	0.4	4500	103	P	
123	**Sb**	1	**62.300**	ug/l	3,115.00	0.5	4500	103	P	
135	**Ba**	1	**97.580**	ug/l	4,879.00	1.0	4500	103	P	
200	**Hg**	1	**1.030**	ug/l	51.50	2.8	45	209	P	
205	**Tl**	1	**84.340**	ug/l	4,217.00	1.5	4500	209	A	
208	**Pb**	1	**21.070**	ug/l	1,053.50	2.0	4500	209	P	
238	**U**	1	**0.004**	ug/l	0.19	29.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	99901	0.62	96090	**104.0**	30	-	125	
45	Sc	1	1939197	1.41	1758000	**110.3**	30	-	125	
74	Ge	1	4268988	0.93	4097000	**104.2**	30	-	125	
103	Rh	1	5772220	0.77	5915000	**97.6**	30	-	125	
165	Ho	1	2592443	0.87	2615000	**99.1**	30	-	125	
175	Lu	1	2166311	0.93	2149000	**100.8**	30	-	125	
209	Bi	1	2599812	1.68	2737000	**95.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\025SMPL.D\025SMPL.D#
Date Acquired: Aug 5 2011 09:53 am Acq. Method: 00He_ALL.M
Sample Name: 580-27782-B-1-C PDS Vial Number: 2107
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.160**	ug/l	108.00	3.4	900	74	P	
23	**Na**	1	**32560.000**	ug/l	1,628,000.00	0.8	450000	45	A	
24	**Mg**	1	**553.200**	ug/l	27,660.00	1.1	450000	45	P	
27	**Al**	1	**90.410**	ug/l	4,520.50	1.1	450000	45	P	
31	**P**	1	**420.800**	ug/l	21,040.00	1.5	450000	45	P	
39	**K**	1	**524.100**	ug/l	26,205.00	0.9	450000	45	A	
44	**Ca**	1	**905.800**	ug/l	45,290.00	0.4	450000	45	P	
47	**Ti**	1	**96.950**	ug/l	4,847.50	0.5	4500	45	P	
51	**V**	1	**20.870**	ug/l	1,043.50	0.6	4500	74	P	
52	**Cr**	1	**8.413**	ug/l	420.65	1.1	4500	74	P	
55	**Mn**	1	**43.950**	ug/l	2,197.50	0.3	4500	74	P	
56	**Fe**	1	**449.200**	ug/l	22,460.00	0.3	450000	74	A	
59	**Co**	1	**20.860**	ug/l	1,043.00	0.6	4500	74	P	
60	**Ni**	1	**20.790**	ug/l	1,039.50	0.5	4500	74	P	
63	**Cu**	1	**10.540**	ug/l	527.00	0.9	4500	74	P	
66	**Zn**	1	**26.080**	ug/l	1,304.00	0.4	4500	74	P	
75	**As**	1	**83.270**	ug/l	4,163.50	0.5	4500	74	P	
78	**Se**	1	**84.200**	ug/l	4,210.00	0.3	4500	74	P	
88	**Sr**	1	**3.544**	ug/l	177.20	1.7	4500	103	P	
95	**Mo**	1	**101.200**	ug/l	5,060.00	0.3	4500	103	P	
109	**Ag**	1	**12.230**	ug/l	611.50	0.7	4500	103	P	
111	**Cd**	1	**2.107**	ug/l	105.35	2.4	4500	103	P	
118	**Sn**	1	**100.200**	ug/l	5,010.00	1.1	4500	103	P	
123	**Sb**	1	**62.200**	ug/l	3,110.00	0.7	4500	103	P	
135	**Ba**	1	**98.160**	ug/l	4,908.00	1.3	4500	103	P	
200	**Hg**	1	**1.030**	ug/l	51.50	0.1	45	209	P	
205	**Tl**	1	**83.130**	ug/l	4,156.50	0.8	4500	209	A	
208	**Pb**	1	**20.970**	ug/l	1,048.50	2.0	4500	209	P	
238	**U**	1	**0.005**	ug/l	0.23	25.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	100242	1.27	96090	**104.3**	30	-	125	
45	Sc	1	1939639	0.70	1758000	**110.3**	30	-	125	
74	Ge	1	4261730	0.33	4097000	**104.0**	30	-	125	
103	Rh	1	5740102	0.60	5915000	**97.0**	30	-	125	
165	Ho	1	2591285	1.28	2615000	**99.1**	30	-	125	
175	Lu	1	2167538	0.56	2149000	**100.9**	30	-	125	
209	Bi	1	2599328	1.14	2737000	**95.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\026SMPL.D\026SMPL.D#
Date Acquired: Aug 5 2011 09:57 am Acq. Method: 00He_ALL.M
Sample Name: LCS 580-92052/19-A Vial Number: 2108
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.945**	ug/l	97.25	3.5	900	74	P	
23	**Na**	1	**390.800**	ug/l	19,540.00	3.4	450000	45	A	
24	**Mg**	1	**407.000**	ug/l	20,350.00	2.2	450000	45	P	
27	**Al**	1	**77.770**	ug/l	3,888.50	2.8	450000	45	P	
31	**P**	1	**382.600**	ug/l	19,130.00	1.8	450000	45	P	
39	**K**	1	**420.500**	ug/l	21,025.00	3.5	450000	45	P	
44	**Ca**	1	**392.300**	ug/l	19,615.00	1.9	450000	45	P	
47	**Ti**	1	**94.300**	ug/l	4,715.00	1.7	4500	45	P	
51	**V**	1	**19.730**	ug/l	986.50	1.0	4500	74	P	
52	**Cr**	1	**8.015**	ug/l	400.75	0.7	4500	74	P	
55	**Mn**	1	**20.070**	ug/l	1,003.50	1.9	4500	74	P	
56	**Fe**	1	**444.500**	ug/l	22,225.00	0.7	450000	74	A	
59	**Co**	1	**20.030**	ug/l	1,001.50	1.0	4500	74	P	
60	**Ni**	1	**19.930**	ug/l	996.50	0.4	4500	74	P	
63	**Cu**	1	**10.100**	ug/l	505.00	1.2	4500	74	P	
66	**Zn**	1	**19.630**	ug/l	981.50	0.5	4500	74	P	
75	**As**	1	**79.110**	ug/l	3,955.50	1.4	4500	74	P	
78	**Se**	1	**80.150**	ug/l	4,007.50	1.8	4500	74	P	
88	**Sr**	1	**0.000**	ug/l	0.02	2750.4	4500	103	P	
95	**Mo**	1	**95.020**	ug/l	4,751.00	1.3	4500	103	P	
109	**Ag**	1	**12.020**	ug/l	601.00	1.7	4500	103	P	
111	**Cd**	1	**1.919**	ug/l	95.95	3.7	4500	103	P	
118	**Sn**	1	**99.230**	ug/l	4,961.50	1.5	4500	103	P	
123	**Sb**	1	**56.210**	ug/l	2,810.50	1.2	4500	103	P	
135	**Ba**	1	**77.100**	ug/l	3,855.00	1.7	4500	103	P	
200	**Hg**	1	**0.954**	ug/l	47.71	0.9	45	209	P	
205	**Tl**	1	**77.250**	ug/l	3,862.50	4.8	4500	209	A	
208	**Pb**	1	**19.720**	ug/l	986.00	2.1	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.10	12.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	96614	0.45	96090	**100.5**	30	-	125	
45	Sc	1	1885224	2.22	1758000	**107.2**	30	-	125	
74	Ge	1	4232908	0.96	4097000	**103.3**	30	-	125	
103	Rh	1	5981246	1.00	5915000	**101.1**	30	-	125	
165	Ho	1	2666867	2.32	2615000	**102.0**	30	-	125	
175	Lu	1	2213284	1.27	2149000	**103.0**	30	-	125	
209	Bi	1	2790049	1.17	2737000	**101.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\027SMPL.D\027SMPL.D#
Date Acquired: Aug 5 2011 10:02 am Acq. Method: 00He_ALL.M
Sample Name: LCSD 580-92052/20-A Vial Number: 2109
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.867**	ug/l	93.35	5.9	900	74	P	
23	**Na**	1	**386.200**	ug/l	19,310.00	7.7	450000	45	A	
24	**Mg**	1	**399.800**	ug/l	19,990.00	4.4	450000	45	P	
27	**Al**	1	**76.480**	ug/l	3,824.00	5.6	450000	45	P	
31	**P**	1	**380.700**	ug/l	19,035.00	3.9	450000	45	P	
39	**K**	1	**410.100**	ug/l	20,505.00	5.4	450000	45	P	
44	**Ca**	1	**384.200**	ug/l	19,210.00	5.0	450000	45	P	
47	**Ti**	1	**92.750**	ug/l	4,637.50	4.9	4500	45	P	
51	**V**	1	**19.280**	ug/l	964.00	4.1	4500	74	P	
52	**Cr**	1	**7.729**	ug/l	386.45	3.4	4500	74	P	
55	**Mn**	1	**19.410**	ug/l	970.50	3.5	4500	74	P	
56	**Fe**	1	**427.600**	ug/l	21,380.00	3.1	450000	74	A	
59	**Co**	1	**19.490**	ug/l	974.50	3.8	4500	74	P	
60	**Ni**	1	**19.540**	ug/l	977.00	3.4	4500	74	P	
63	**Cu**	1	**9.861**	ug/l	493.05	3.8	4500	74	P	
66	**Zn**	1	**18.650**	ug/l	932.50	3.2	4500	74	P	
75	**As**	1	**76.970**	ug/l	3,848.50	3.6	4500	74	P	
78	**Se**	1	**77.880**	ug/l	3,894.00	2.9	4500	74	P	
88	**Sr**	1	**-0.009**	ug/l	-0.44	84.6	4500	103	P	
95	**Mo**	1	**91.630**	ug/l	4,581.50	3.6	4500	103	P	
109	**Ag**	1	**11.580**	ug/l	579.00	4.5	4500	103	P	
111	**Cd**	1	**1.830**	ug/l	91.50	3.0	4500	103	P	
118	**Sn**	1	**95.320**	ug/l	4,766.00	3.6	4500	103	P	
123	**Sb**	1	**54.440**	ug/l	2,722.00	3.4	4500	103	P	
135	**Ba**	1	**74.190**	ug/l	3,709.50	3.7	4500	103	P	
200	**Hg**	1	**0.923**	ug/l	46.16	3.0	45	209	P	
205	**Tl**	1	**75.190**	ug/l	3,759.50	3.2	4500	209	A	
208	**Pb**	1	**19.270**	ug/l	963.50	3.6	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.09	26.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	98828	1.59	96090	**102.8**	30	-	125	
45	Sc	1	1919042	4.79	1758000	**109.2**	30	-	125	
74	Ge	1	4356352	3.41	4097000	**106.3**	30	-	125	
103	Rh	1	6188855	3.39	5915000	**104.6**	30	-	125	
165	Ho	1	2751961	5.90	2615000	**105.2**	30	-	125	
175	Lu	1	2266244	5.49	2149000	**105.5**	30	-	125	
209	Bi	1	2852346	3.78	2737000	**104.2**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\028SMPL.D\028SMPL.D#
Date Acquired: Aug 5 2011 10:07 am Acq. Method: 00He_ALL.M
Sample Name: LCSSRM 580-92052/21-A Vial Number: 2110
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.027**	ug/l	101.35	4.9	900	74	P	
23	**Na**	1	**390.300**	ug/l	19,515.00	5.6	450000	45	A	
24	**Mg**	1	**410.200**	ug/l	20,510.00	2.9	450000	45	P	
27	**Al**	1	**78.800**	ug/l	3,940.00	2.6	450000	45	P	
31	**P**	1	**380.500**	ug/l	19,025.00	3.1	450000	45	P	
39	**K**	1	**421.400**	ug/l	21,070.00	3.3	450000	45	P	
44	**Ca**	1	**397.700**	ug/l	19,885.00	3.3	450000	45	P	
47	**Ti**	1	**95.310**	ug/l	4,765.50	2.3	4500	45	P	
51	**V**	1	**19.760**	ug/l	988.00	1.2	4500	74	P	
52	**Cr**	1	**7.941**	ug/l	397.05	0.6	4500	74	P	
55	**Mn**	1	**19.940**	ug/l	997.00	0.8	4500	74	P	
56	**Fe**	1	**446.100**	ug/l	22,305.00	0.6	450000	74	A	
59	**Co**	1	**20.270**	ug/l	1,013.50	1.7	4500	74	P	
60	**Ni**	1	**20.180**	ug/l	1,009.00	1.6	4500	74	P	
63	**Cu**	1	**10.240**	ug/l	512.00	0.8	4500	74	P	
66	**Zn**	1	**19.970**	ug/l	998.50	1.3	4500	74	P	
75	**As**	1	**79.340**	ug/l	3,967.00	1.3	4500	74	P	
78	**Se**	1	**79.690**	ug/l	3,984.50	2.2	4500	74	P	
88	**Sr**	1	**0.002**	ug/l	0.09	461.6	4500	103	P	
95	**Mo**	1	**94.590**	ug/l	4,729.50	0.3	4500	103	P	
109	**Ag**	1	**11.920**	ug/l	596.00	0.8	4500	103	P	
111	**Cd**	1	**1.952**	ug/l	97.60	3.4	4500	103	P	
118	**Sn**	1	**97.680**	ug/l	4,884.00	0.6	4500	103	P	
123	**Sb**	1	**56.170**	ug/l	2,808.50	0.2	4500	103	P	
135	**Ba**	1	**76.650**	ug/l	3,832.50	1.1	4500	103	P	
200	**Hg**	1	**0.923**	ug/l	46.13	1.7	45	209	P	
205	**Tl**	1	**75.930**	ug/l	3,796.50	4.0	4500	209	A	
208	**Pb**	1	**19.440**	ug/l	972.00	1.4	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.11	17.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	98391	0.47	96090	**102.4**	30	-	125	
45	Sc	1	1881775	2.70	1758000	**107.0**	30	-	125	
74	Ge	1	4248624	1.17	4097000	**103.7**	30	-	125	
103	Rh	1	6024353	0.26	5915000	**101.8**	30	-	125	
165	Ho	1	2680037	2.77	2615000	**102.5**	30	-	125	
175	Lu	1	2199706	0.96	2149000	**102.4**	30	-	125	
209	Bi	1	2841809	1.16	2737000	**103.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\029SMPL.D\029SMPL.D#
Date Acquired: Aug 5 2011 10:12 am Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**49.050**	ug/l	49.05	0.2	900	74	P	
23	**Na**	1	**4873.000**	ug/l	4,873.00	1.9	450000	45	A	
24	**Mg**	1	**5026.000**	ug/l	5,026.00	1.5	450000	45	A	
27	**Al**	1	**507.900**	ug/l	507.90	1.9	450000	45	P	
31	**P**	1	**5015.000**	ug/l	5,015.00	2.2	450000	45	P	
39	**K**	1	**5129.000**	ug/l	5,129.00	1.5	450000	45	A	
44	**Ca**	1	**5004.000**	ug/l	5,004.00	1.3	450000	45	P	
47	**Ti**	1	**49.700**	ug/l	49.70	1.2	4500	45	P	
51	**V**	1	**49.510**	ug/l	49.51	1.0	4500	74	P	
52	**Cr**	1	**49.480**	ug/l	49.48	1.5	4500	74	P	
55	**Mn**	1	**49.800**	ug/l	49.80	0.2	4500	74	P	
56	**Fe**	1	**4974.000**	ug/l	4,974.00	0.3	450000	74	A	
59	**Co**	1	**49.590**	ug/l	49.59	0.3	4500	74	P	
60	**Ni**	1	**49.240**	ug/l	49.24	1.0	4500	74	P	
63	**Cu**	1	**49.460**	ug/l	49.46	0.6	4500	74	P	
66	**Zn**	1	**48.770**	ug/l	48.77	1.7	4500	74	P	
75	**As**	1	**49.460**	ug/l	49.46	0.7	4500	74	P	
78	**Se**	1	**50.060**	ug/l	50.06	1.3	4500	74	P	
88	**Sr**	1	**50.300**	ug/l	50.30	0.8	4500	103	P	
95	**Mo**	1	**48.790**	ug/l	48.79	1.0	4500	103	P	
109	**Ag**	1	**49.460**	ug/l	49.46	1.0	4500	103	P	
111	**Cd**	1	**49.550**	ug/l	49.55	1.5	4500	103	P	
118	**Sn**	1	**49.870**	ug/l	49.87	0.9	4500	103	P	
123	**Sb**	1	**49.440**	ug/l	49.44	1.5	4500	103	P	
135	**Ba**	1	**49.500**	ug/l	49.50	1.0	4500	103	P	
200	**Hg**	1	**2.400**	ug/l	2.40	1.3	45	209	P	
205	**Tl**	1	**47.690**	ug/l	47.69	4.8	4500	209	A	
208	**Pb**	1	**49.230**	ug/l	49.23	1.3	4500	209	P	
238	**U**	1	**48.240**	ug/l	48.24	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	96606	1.49	96090	**100.5**	30	-	125	
45	Sc	1	1882333	1.46	1758000	**107.1**	30	-	125	
74	Ge	1	4287155	0.61	4097000	**104.6**	30	-	125	
103	Rh	1	5846749	0.60	5915000	**98.8**	30	-	125	
165	Ho	1	2644915	0.36	2615000	**101.1**	30	-	125	
175	Lu	1	2176473	0.52	2149000	**101.3**	30	-	125	
209	Bi	1	2707891	1.28	2737000	**98.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\030SMPL.D\030SMPL.D#
Date Acquired: Aug 5 2011 10:16 am Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.001**	ug/l	0.00	112.7	900	74	P	
23	**Na**	1	**-8.296**	ug/l	-8.30	23.4	450000	45	P	
24	**Mg**	1	**0.036**	ug/l	0.04	35.2	450000	45	P	
27	**Al**	1	**-0.169**	ug/l	-0.17	187.8	450000	45	P	
31	**P**	1	**1.488**	ug/l	1.49	53.0	450000	45	P	
39	**K**	1	**4.213**	ug/l	4.21	40.8	450000	45	P	
44	**Ca**	1	**-0.615**	ug/l	-0.62	50.2	450000	45	P	
47	**Ti**	1	**0.023**	ug/l	0.02	35.1	4500	45	P	
51	**V**	1	**0.077**	ug/l	0.08	20.9	4500	74	P	
52	**Cr**	1	**0.007**	ug/l	0.01	45.0	4500	74	P	
55	**Mn**	1	**-0.005**	ug/l	-0.01	109.7	4500	74	P	
56	**Fe**	1	**1.275**	ug/l	1.28	9.7	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	2577.0	4500	74	P	
60	**Ni**	1	**0.015**	ug/l	0.01	88.3	4500	74	P	
63	**Cu**	1	**-0.018**	ug/l	-0.02	20.2	4500	74	P	
66	**Zn**	1	**-0.017**	ug/l	-0.02	150.6	4500	74	P	
75	**As**	1	**0.035**	ug/l	0.03	96.6	4500	74	P	
78	**Se**	1	**0.034**	ug/l	0.03	117.6	4500	74	P	
88	**Sr**	1	**0.010**	ug/l	0.01	34.7	4500	103	P	
95	**Mo**	1	**0.049**	ug/l	0.05	22.9	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	0.00	12.3	4500	103	P	
111	**Cd**	1	**0.005**	ug/l	0.01	35.5	4500	103	P	
118	**Sn**	1	**0.388**	ug/l	0.39	18.8	4500	103	P	
123	**Sb**	1	**0.039**	ug/l	0.04	40.0	4500	103	P	
135	**Ba**	1	**-0.006**	ug/l	-0.01	152.1	4500	103	P	
200	**Hg**	1	**0.010**	ug/l	0.01	17.9	45	209	P	
205	**Tl**	1	**0.305**	ug/l	0.31	12.6	4500	209	P	
208	**Pb**	1	**-0.006**	ug/l	-0.01	74.5	4500	209	P	
238	**U**	1	**0.007**	ug/l	0.01	19.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	98263	1.12	96090	**102.3**	30	-	125	
45	Sc	1	1897203	1.24	1758000	**107.9**	30	-	125	
74	Ge	1	4323788	0.17	4097000	**105.5**	30	-	125	
103	Rh	1	6073830	0.90	5915000	**102.7**	30	-	125	
165	Ho	1	2673240	1.54	2615000	**102.2**	30	-	125	
175	Lu	1	2242454	1.31	2149000	**104.3**	30	-	125	
209	Bi	1	2821729	0.17	2737000	**103.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\031SMPL.D\031SMPL.D#
Date Acquired: Aug 5 2011 10:21 am Acq. Method: 00He_ALL.M
Sample Name: MB 580-91886/7-B Vial Number: 2201
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.003**	ug/l	-0.03	83.8	900	74	P	
23	**Na**	1	**13370.000**	ug/l	133,700.00	2.6	450000	45	A	
24	**Mg**	1	**5.278**	ug/l	52.78	1.0	450000	45	P	
27	**Al**	1	**-1.430**	ug/l	-14.30	4.5	450000	45	P	
31	**P**	1	**2.681**	ug/l	26.81	38.2	450000	45	P	
39	**K**	1	**13.320**	ug/l	133.20	22.0	450000	45	P	
44	**Ca**	1	**27.460**	ug/l	274.60	3.0	450000	45	P	
47	**Ti**	1	**0.012**	ug/l	0.12	19.3	4500	45	P	
51	**V**	1	**-0.265**	ug/l	-2.65	2.9	4500	74	P	
52	**Cr**	1	**-0.024**	ug/l	-0.24	22.7	4500	74	P	
55	**Mn**	1	**-0.020**	ug/l	-0.20	14.1	4500	74	P	
56	**Fe**	1	**0.378**	ug/l	3.78	21.4	450000	74	P	
59	**Co**	1	**0.001**	ug/l	0.01	327.5	4500	74	P	
60	**Ni**	1	**0.007**	ug/l	0.07	90.5	4500	74	P	
63	**Cu**	1	**-0.004**	ug/l	-0.04	76.3	4500	74	P	
66	**Zn**	1	**1.166**	ug/l	11.66	1.5	4500	74	P	
75	**As**	1	**-0.043**	ug/l	-0.43	18.2	4500	74	P	
78	**Se**	1	**0.148**	ug/l	1.48	15.5	4500	74	P	
88	**Sr**	1	**0.038**	ug/l	0.38	17.9	4500	103	P	
95	**Mo**	1	**0.021**	ug/l	0.21	14.9	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	-0.03	36.8	4500	103	P	
111	**Cd**	1	**0.000**	ug/l	0.00	8396.6	4500	103	P	
118	**Sn**	1	**0.189**	ug/l	1.89	14.0	4500	103	P	
123	**Sb**	1	**0.016**	ug/l	0.16	29.9	4500	103	P	
135	**Ba**	1	**2.725**	ug/l	27.25	1.2	4500	103	P	
200	**Hg**	1	**0.007**	ug/l	0.07	37.3	45	209	P	
205	**Tl**	1	**0.189**	ug/l	1.89	9.0	4500	209	P	
208	**Pb**	1	**0.007**	ug/l	0.07	190.8	4500	209	P	
238	**U**	1	**0.000**	ug/l	0.00	239.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	102944	0.73	96090	**107.1**	30	-	125	
45	Sc	1	2002047	1.95	1758000	**113.9**	30	-	125	
74	Ge	1	4405103	0.59	4097000	**107.5**	30	-	125	
103	Rh	1	5995741	1.10	5915000	**101.4**	30	-	125	
165	Ho	1	2643821	0.44	2615000	**101.1**	30	-	125	
175	Lu	1	2171256	1.37	2149000	**101.0**	30	-	125	
209	Bi	1	2644452	2.38	2737000	**96.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\032SMPL.D\032SMPL.D#
Date Acquired: Aug 5 2011 10:26 am Acq. Method: 00He_ALL.M
Sample Name: 580-27645-A-1-B Vial Number: 2202
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.003**	ug/l	0.03	101.2	900	74	P	
23	**Na**	1	**169400.000**	ug/l	1,694,000.00	1.4	450000	45	A	
24	**Mg**	1	**412.500**	ug/l	4,125.00	1.7	450000	45	P	
27	**Al**	1	**11.360**	ug/l	113.60	3.7	450000	45	P	
31	**P**	1	**57.760**	ug/l	577.60	7.9	450000	45	P	
39	**K**	1	**982.300**	ug/l	9,823.00	1.5	450000	45	A	
44	**Ca**	1	**2271.000**	ug/l	22,710.00	1.2	450000	45	P	
47	**Ti**	1	**4.505**	ug/l	45.05	10.9	4500	45	P	
51	**V**	1	**0.052**	ug/l	0.52	4.2	4500	74	P	
52	**Cr**	1	**37.360**	ug/l	373.60	1.0	4500	74	P	
55	**Mn**	1	**67.770**	ug/l	677.70	0.7	4500	74	P	
56	**Fe**	1	**21.240**	ug/l	212.40	1.8	450000	74	P	
59	**Co**	1	**2.463**	ug/l	24.63	2.6	4500	74	P	
60	**Ni**	1	**4.561**	ug/l	45.61	0.6	4500	74	P	
63	**Cu**	1	**2.831**	ug/l	28.31	1.1	4500	74	P	
66	**Zn**	1	**2387.000**	ug/l	23,870.00	0.5	4500	74	A	
75	**As**	1	**0.563**	ug/l	5.63	6.5	4500	74	P	
78	**Se**	1	**0.200**	ug/l	2.00	9.7	4500	74	P	
88	**Sr**	1	**4.170**	ug/l	41.70	3.2	4500	103	P	
95	**Mo**	1	**0.041**	ug/l	0.41	7.3	4500	103	P	
109	**Ag**	1	**0.005**	ug/l	0.05	22.0	4500	103	P	
111	**Cd**	1	**2.795**	ug/l	27.95	4.0	4500	103	P	
118	**Sn**	1	**0.257**	ug/l	2.57	20.4	4500	103	P	
123	**Sb**	1	**0.106**	ug/l	1.06	5.1	4500	103	P	
135	**Ba**	1	**67.960**	ug/l	679.60	1.9	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.06	28.3	45	209	P	
205	**Tl**	1	**0.107**	ug/l	1.07	19.0	4500	209	P	
208	**Pb**	1	**149.600**	ug/l	1,496.00	0.2	4500	209	A	
238	**U**	1	**0.003**	ug/l	0.03	29.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	92255	1.02	96090	**96.0**	30	-	125	
45	Sc	1	1853152	1.34	1758000	**105.4**	30	-	125	
74	Ge	1	4135480	1.34	4097000	**100.9**	30	-	125	
103	Rh	1	5425783	1.24	5915000	**91.7**	30	-	125	
165	Ho	1	2521987	0.94	2615000	**96.4**	30	-	125	
175	Lu	1	2099537	0.53	2149000	**97.7**	30	-	125	
209	Bi	1	2476840	0.42	2737000	**90.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\033SMPL.D\033SMPL.D#
Date Acquired: Aug 5 2011 10:31 am Acq. Method: 00He_ALL.M
Sample Name: 580-27645-A-2-B Vial Number: 2203
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.016**	ug/l	0.16	27.1	900	74	P	
23	**Na**	1	**179200.000**	ug/l	1,792,000.00	1.9	450000	45	A	
24	**Mg**	1	**1155.000**	ug/l	11,550.00	0.9	450000	45	A	
27	**Al**	1	**15.170**	ug/l	151.70	1.7	450000	45	P	
31	**P**	1	**34.110**	ug/l	341.10	2.6	450000	45	P	
39	**K**	1	**636.100**	ug/l	6,361.00	2.4	450000	45	A	
44	**Ca**	1	**1638.000**	ug/l	16,380.00	1.1	450000	45	P	
47	**Ti**	1	**10.620**	ug/l	106.20	13.4	4500	45	P	
51	**V**	1	**0.015**	ug/l	0.15	116.6	4500	74	P	
52	**Cr**	1	**210.100**	ug/l	2,101.00	1.1	4500	74	A	
55	**Mn**	1	**14.590**	ug/l	145.90	2.9	4500	74	P	
56	**Fe**	1	**17.590**	ug/l	175.90	2.0	450000	74	P	
59	**Co**	1	**1.581**	ug/l	15.81	2.9	4500	74	P	
60	**Ni**	1	**1.290**	ug/l	12.90	0.7	4500	74	P	
63	**Cu**	1	**8.527**	ug/l	85.27	1.6	4500	74	P	
66	**Zn**	1	**2426.000**	ug/l	24,260.00	1.3	4500	74	A	
75	**As**	1	**4.094**	ug/l	40.94	2.6	4500	74	P	
78	**Se**	1	**0.168**	ug/l	1.68	54.1	4500	74	P	
88	**Sr**	1	**12.250**	ug/l	122.50	1.0	4500	103	P	
95	**Mo**	1	**0.033**	ug/l	0.33	19.6	4500	103	P	
109	**Ag**	1	**0.005**	ug/l	0.05	70.7	4500	103	P	
111	**Cd**	1	**1.218**	ug/l	12.18	4.6	4500	103	P	
118	**Sn**	1	**0.480**	ug/l	4.80	7.2	4500	103	P	
123	**Sb**	1	**0.591**	ug/l	5.91	1.1	4500	103	P	
135	**Ba**	1	**100.600**	ug/l	1,006.00	2.6	4500	103	P	
200	**Hg**	1	**0.004**	ug/l	0.04	74.7	45	209	P	
205	**Tl**	1	**0.079**	ug/l	0.79	3.9	4500	209	P	
208	**Pb**	1	**995.400**	ug/l	9,954.00	0.5	4500	209	A	
238	**U**	1	**0.006**	ug/l	0.06	8.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	96263	1.51	96090	**100.2**	30	-	125	
45	Sc	1	1855147	2.36	1758000	**105.5**	30	-	125	
74	Ge	1	4186220	2.18	4097000	**102.2**	30	-	125	
103	Rh	1	5465467	2.21	5915000	**92.4**	30	-	125	
165	Ho	1	2539998	1.31	2615000	**97.1**	30	-	125	
175	Lu	1	2107336	1.40	2149000	**98.1**	30	-	125	
209	Bi	1	2481214	1.63	2737000	**90.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\034SMPL.D\034SMPL.D#
Date Acquired: Aug 5 2011 10:35 am Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**50.160**	ug/l	50.16	0.7	900	74	P	
23	**Na**	1	**4934.000**	ug/l	4,934.00	2.6	450000	45	A	
24	**Mg**	1	**4942.000**	ug/l	4,942.00	2.2	450000	45	A	
27	**Al**	1	**507.200**	ug/l	507.20	1.5	450000	45	P	
31	**P**	1	**5030.000**	ug/l	5,030.00	1.1	450000	45	P	
39	**K**	1	**5061.000**	ug/l	5,061.00	1.6	450000	45	A	
44	**Ca**	1	**4984.000**	ug/l	4,984.00	0.9	450000	45	P	
47	**Ti**	1	**49.660**	ug/l	49.66	2.1	4500	45	P	
51	**V**	1	**49.880**	ug/l	49.88	0.7	4500	74	P	
52	**Cr**	1	**49.420**	ug/l	49.42	0.7	4500	74	P	
55	**Mn**	1	**49.680**	ug/l	49.68	0.3	4500	74	P	
56	**Fe**	1	**5002.000**	ug/l	5,002.00	1.5	450000	74	A	
59	**Co**	1	**49.740**	ug/l	49.74	0.5	4500	74	P	
60	**Ni**	1	**49.720**	ug/l	49.72	0.7	4500	74	P	
63	**Cu**	1	**49.530**	ug/l	49.53	0.4	4500	74	P	
66	**Zn**	1	**48.590**	ug/l	48.59	0.7	4500	74	P	
75	**As**	1	**49.870**	ug/l	49.87	1.3	4500	74	P	
78	**Se**	1	**50.570**	ug/l	50.57	1.0	4500	74	P	
88	**Sr**	1	**50.900**	ug/l	50.90	0.8	4500	103	P	
95	**Mo**	1	**48.480**	ug/l	48.48	0.6	4500	103	P	
109	**Ag**	1	**49.270**	ug/l	49.27	1.0	4500	103	P	
111	**Cd**	1	**49.360**	ug/l	49.36	2.5	4500	103	P	
118	**Sn**	1	**49.200**	ug/l	49.20	1.4	4500	103	P	
123	**Sb**	1	**49.530**	ug/l	49.53	1.5	4500	103	P	
135	**Ba**	1	**49.610**	ug/l	49.61	0.7	4500	103	P	
200	**Hg**	1	**2.436**	ug/l	2.44	1.1	45	209	P	
205	**Tl**	1	**48.270**	ug/l	48.27	3.2	4500	209	M	
208	**Pb**	1	**49.550**	ug/l	49.55	1.0	4500	209	P	
238	**U**	1	**48.470**	ug/l	48.47	0.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	100956	0.59	96090	**105.1**	30	-	125	
45	Sc	1	1949017	0.70	1758000	**110.9**	30	-	125	
74	Ge	1	4348066	0.70	4097000	**106.1**	30	-	125	
103	Rh	1	5934902	1.06	5915000	**100.3**	30	-	125	
165	Ho	1	2673473	1.32	2615000	**102.2**	30	-	125	
175	Lu	1	2234760	1.19	2149000	**104.0**	30	-	125	
209	Bi	1	2728307	0.87	2737000	**99.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\035SMPL.D\035SMPL.D#
Date Acquired: Aug 5 2011 10:40 am Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.004**	ug/l	0.00	53.4	900	74	P	
23	**Na**	1	**-10.140**	ug/l	-10.14	22.8	450000	45	P	
24	**Mg**	1	**0.050**	ug/l	0.05	49.6	450000	45	P	
27	**Al**	1	**-0.127**	ug/l	-0.13	103.9	450000	45	P	
31	**P**	1	**2.854**	ug/l	2.85	36.1	450000	45	P	
39	**K**	1	**4.415**	ug/l	4.42	50.5	450000	45	P	
44	**Ca**	1	**-0.499**	ug/l	-0.50	118.0	450000	45	P	
47	**Ti**	1	**0.018**	ug/l	0.02	27.0	4500	45	P	
51	**V**	1	**0.108**	ug/l	0.11	16.0	4500	74	P	
52	**Cr**	1	**0.015**	ug/l	0.02	46.2	4500	74	P	
55	**Mn**	1	**0.005**	ug/l	0.01	84.4	4500	74	P	
56	**Fe**	1	**1.398**	ug/l	1.40	3.0	450000	74	P	
59	**Co**	1	**0.001**	ug/l	0.00	145.7	4500	74	P	
60	**Ni**	1	**0.005**	ug/l	0.00	272.5	4500	74	P	
63	**Cu**	1	**-0.013**	ug/l	-0.01	61.6	4500	74	P	
66	**Zn**	1	**-0.008**	ug/l	-0.01	352.3	4500	74	P	
75	**As**	1	**0.017**	ug/l	0.02	83.7	4500	74	P	
78	**Se**	1	**0.121**	ug/l	0.12	40.6	4500	74	P	
88	**Sr**	1	**0.019**	ug/l	0.02	20.7	4500	103	P	
95	**Mo**	1	**0.039**	ug/l	0.04	9.1	4500	103	P	
109	**Ag**	1	**-0.001**	ug/l	0.00	162.8	4500	103	P	
111	**Cd**	1	**-0.004**	ug/l	0.00	232.0	4500	103	P	
118	**Sn**	1	**0.227**	ug/l	0.23	21.0	4500	103	P	
123	**Sb**	1	**0.030**	ug/l	0.03	39.5	4500	103	P	
135	**Ba**	1	**0.008**	ug/l	0.01	33.0	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.01	12.1	45	209	P	
205	**Tl**	1	**0.192**	ug/l	0.19	9.6	4500	209	P	
208	**Pb**	1	**0.010**	ug/l	0.01	110.5	4500	209	P	
238	**U**	1	**0.008**	ug/l	0.01	26.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	101402	0.96	96090	**105.5**	30 - 125	
45	Sc	1	1971077	2.25	1758000	**112.1**	30 - 125	
74	Ge	1	4375531	0.87	4097000	**106.8**	30 - 125	
103	Rh	1	6172235	1.24	5915000	**104.3**	30 - 125	
165	Ho	1	2728334	1.58	2615000	**104.3**	30 - 125	
175	Lu	1	2265062	0.45	2149000	**105.4**	30 - 125	
209	Bi	1	2838583	0.95	2737000	**103.7**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\036SMPL.D\036SMPL.D#
Date Acquired: Aug 5 2011 10:45 am Acq. Method: 00He_ALL.M
Sample Name: MB 580-92044/13-A Vial Number: 2301
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.005**	ug/l	0.00	59.8	900	74	P	
23	**Na**	1	**-10.050**	ug/l	-10.05	12.9	450000	45	P	
24	**Mg**	1	**1.115**	ug/l	1.12	3.4	450000	45	P	
27	**Al**	1	**2.283**	ug/l	2.28	8.1	450000	45	P	
31	**P**	1	**0.694**	ug/l	0.69	174.6	450000	45	P	
39	**K**	1	**5.164**	ug/l	5.16	48.2	450000	45	P	
44	**Ca**	1	**4.293**	ug/l	4.29	13.4	450000	45	P	
47	**Ti**	1	**0.180**	ug/l	0.18	12.5	4500	45	P	
51	**V**	1	**0.172**	ug/l	0.17	8.5	4500	74	P	
52	**Cr**	1	**0.023**	ug/l	0.02	45.4	4500	74	P	
55	**Mn**	1	**0.062**	ug/l	0.06	8.7	4500	74	P	
56	**Fe**	1	**4.703**	ug/l	4.70	1.4	450000	74	P	
59	**Co**	1	**0.002**	ug/l	0.00	47.6	4500	74	P	
60	**Ni**	1	**0.013**	ug/l	0.01	53.3	4500	74	P	
63	**Cu**	1	**0.012**	ug/l	0.01	40.7	4500	74	P	
66	**Zn**	1	**-0.328**	ug/l	-0.33	6.1	4500	74	P	
75	**As**	1	**0.038**	ug/l	0.04	60.6	4500	74	P	
78	**Se**	1	**0.119**	ug/l	0.12	58.6	4500	74	P	
88	**Sr**	1	**0.079**	ug/l	0.08	6.5	4500	103	P	
95	**Mo**	1	**0.019**	ug/l	0.02	14.8	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	0.00	41.3	4500	103	P	
111	**Cd**	1	**0.000**	ug/l	0.00	737.6	4500	103	P	
118	**Sn**	1	**0.131**	ug/l	0.13	15.8	4500	103	P	
123	**Sb**	1	**0.017**	ug/l	0.02	56.0	4500	103	P	
135	**Ba**	1	**0.142**	ug/l	0.14	13.1	4500	103	P	
200	**Hg**	1	**0.005**	ug/l	0.00	67.7	45	209	P	
205	**Tl**	1	**0.078**	ug/l	0.08	14.6	4500	209	P	
208	**Pb**	1	**0.014**	ug/l	0.01	29.5	4500	209	P	
238	**U**	1	**0.001**	ug/l	0.00	261.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	101933	1.27	96090	**106.1**	30	-	125	
45	Sc	1	1936909	2.12	1758000	**110.2**	30	-	125	
74	Ge	1	4448745	2.24	4097000	**108.6**	30	-	125	
103	Rh	1	6165805	0.62	5915000	**104.2**	30	-	125	
165	Ho	1	2714689	0.26	2615000	**103.8**	30	-	125	
175	Lu	1	2271294	1.17	2149000	**105.7**	30	-	125	
209	Bi	1	2870910	0.83	2737000	**104.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\037SMPL.D\037SMPL.D#
Date Acquired: Aug 5 2011 10:50 am Acq. Method: 00He_ALL.M
Sample Name: 580-27743-C-1-A SD Vial Number: 2302
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.029**	ug/l	0.14	33.8	900	74	P	
23	**Na**	1	**1167000.000**	ug/l	5,835,000.00	1.2	450000	45	A	Fail
24	**Mg**	1	**133100.000**	ug/l	665,500.00	0.9	450000	45	A	
27	**Al**	1	**0.209**	ug/l	1.05	44.8	450000	45	P	
31	**P**	1	**41.680**	ug/l	208.40	2.6	450000	45	P	
39	**K**	1	**41110.000**	ug/l	205,550.00	1.0	450000	45	A	
44	**Ca**	1	**46740.000**	ug/l	233,700.00	0.6	450000	45	A	
47	**Ti**	1	**0.408**	ug/l	2.04	2.7	4500	45	P	
51	**V**	1	**0.857**	ug/l	4.28	4.4	4500	74	P	
52	**Cr**	1	**0.139**	ug/l	0.69	11.9	4500	74	P	
55	**Mn**	1	**55.470**	ug/l	277.35	0.8	4500	74	P	
56	**Fe**	1	**323.600**	ug/l	1,618.00	0.3	450000	74	A	
59	**Co**	1	**1.901**	ug/l	9.51	1.4	4500	74	P	
60	**Ni**	1	**7.171**	ug/l	35.86	0.9	4500	74	P	
63	**Cu**	1	**0.029**	ug/l	0.15	39.2	4500	74	P	
66	**Zn**	1	**1.150**	ug/l	5.75	6.8	4500	74	P	
75	**As**	1	**1.081**	ug/l	5.41	3.6	4500	74	P	
78	**Se**	1	**0.298**	ug/l	1.49	21.9	4500	74	P	
88	**Sr**	1	**860.700**	ug/l	4,303.50	0.8	4500	103	A	
95	**Mo**	1	**3.368**	ug/l	16.84	0.2	4500	103	P	
109	**Ag**	1	**0.002**	ug/l	0.01	84.3	4500	103	P	
111	**Cd**	1	**0.003**	ug/l	0.01	561.8	4500	103	P	
118	**Sn**	1	**0.112**	ug/l	0.56	15.5	4500	103	P	
123	**Sb**	1	**0.440**	ug/l	2.20	3.3	4500	103	P	
135	**Ba**	1	**23.780**	ug/l	118.90	1.4	4500	103	P	
200	**Hg**	1	**0.008**	ug/l	0.04	16.4	45	209	P	
205	**Tl**	1	**0.044**	ug/l	0.22	26.3	4500	209	P	
208	**Pb**	1	**0.033**	ug/l	0.17	33.3	4500	209	P	
238	**U**	1	**0.463**	ug/l	2.32	1.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	98921	1.63	96090	**102.9**	30	-	125	
45	Sc	1	1859297	0.57	1758000	**105.8**	30	-	125	
74	Ge	1	3826150	0.73	4097000	**93.4**	30	-	125	
103	Rh	1	4788400	0.58	5915000	**81.0**	30	-	125	
165	Ho	1	2203891	1.40	2615000	**84.3**	30	-	125	
175	Lu	1	1815447	1.35	2149000	**84.5**	30	-	125	
209	Bi	1	1988202	1.87	2737000	**72.6**	30	-	125	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\038SMPL.D\038SMPL.D#
Date Acquired: Aug 5 2011 10:55 am Acq. Method: 00He_ALL.M
Sample Name: 580-27743-C-1-A Vial Number: 2303
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.183**	ug/l	0.18	21.3	900	74	P	
23	**Na**	1	**--------**	ug/l	----	--------	450000	45	E	Fail
24	**Mg**	1	**673000.000**	ug/l	673,000.00	2.7	450000	45	A	Fail
27	**Al**	1	**6.946**	ug/l	6.95	3.7	450000	45	P	
31	**P**	1	**177.100**	ug/l	177.10	5.3	450000	45	P	
39	**K**	1	**204800.000**	ug/l	204,800.00	0.9	450000	45	A	
44	**Ca**	1	**220600.000**	ug/l	220,600.00	1.7	450000	45	A	
47	**Ti**	1	**1.925**	ug/l	1.93	8.8	4500	45	P	
51	**V**	1	**6.092**	ug/l	6.09	0.6	4500	74	P	
52	**Cr**	1	**0.775**	ug/l	0.78	2.7	4500	74	P	
55	**Mn**	1	**267.000**	ug/l	267.00	1.5	4500	74	A	
56	**Fe**	1	**1541.000**	ug/l	1,541.00	1.2	450000	74	A	
59	**Co**	1	**9.313**	ug/l	9.31	1.7	4500	74	P	
60	**Ni**	1	**34.100**	ug/l	34.10	1.3	4500	74	P	
63	**Cu**	1	**0.369**	ug/l	0.37	4.7	4500	74	P	
66	**Zn**	1	**3.288**	ug/l	3.29	3.1	4500	74	P	
75	**As**	1	**5.277**	ug/l	5.28	2.6	4500	74	P	
78	**Se**	1	**0.736**	ug/l	0.74	13.2	4500	74	P	
88	**Sr**	1	**4116.000**	ug/l	4,116.00	1.4	4500	103	A	
95	**Mo**	1	**15.970**	ug/l	15.97	1.4	4500	103	P	
109	**Ag**	1	**0.019**	ug/l	0.02	13.9	4500	103	P	
111	**Cd**	1	**0.099**	ug/l	0.10	21.7	4500	103	P	
118	**Sn**	1	**0.368**	ug/l	0.37	12.8	4500	103	P	
123	**Sb**	1	**2.103**	ug/l	2.10	1.2	4500	103	P	
135	**Ba**	1	**109.100**	ug/l	109.10	2.6	4500	103	P	
200	**Hg**	1	**0.036**	ug/l	0.04	16.0	45	209	P	
205	**Tl**	1	**0.037**	ug/l	0.04	19.2	4500	209	P	
208	**Pb**	1	**0.081**	ug/l	0.08	29.3	4500	209	P	
238	**U**	1	**2.157**	ug/l	2.16	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	71029	1.14	96090	**73.9**	30 - 125	
45	Sc	1	1294262	4.29	1758000	**73.6**	30 - 125	
74	Ge	1	2526166	0.91	4097000	**61.7**	30 - 125	
103	Rh	1	3138003	2.45	5915000	**53.1**	30 - 125	
165	Ho	1	1419383	1.41	2615000	**54.3**	30 - 125	
175	Lu	1	1152636	1.37	2149000	**53.6**	30 - 125	
209	Bi	1	1197888	0.79	2737000	**43.8**	30 - 125	

Analytes: **Fail** **ISTD:** **Pass**

2 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\039SMPL.D\039SMPL.D#
Date Acquired: Aug 5 2011 10:59 am Acq. Method: 00He_ALL.M
Sample Name: 580-27743-C-1-B DU Vial Number: 2304
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.178**	ug/l	0.18	9.4	900	74	P	
23	**Na**	1	**--------**	ug/l	----	--------	450000	45	E	Fail
24	**Mg**	1	**662400.000**	ug/l	662,400.00	3.4	450000	45	A	Fail
27	**Al**	1	**7.212**	ug/l	7.21	7.8	450000	45	P	
31	**P**	1	**175.000**	ug/l	175.00	3.6	450000	45	P	
39	**K**	1	**200400.000**	ug/l	200,400.00	1.9	450000	45	A	
44	**Ca**	1	**218400.000**	ug/l	218,400.00	1.9	450000	45	A	
47	**Ti**	1	**1.874**	ug/l	1.87	1.4	4500	45	P	
51	**V**	1	**6.180**	ug/l	6.18	1.7	4500	74	P	
52	**Cr**	1	**0.787**	ug/l	0.79	8.0	4500	74	P	
55	**Mn**	1	**267.200**	ug/l	267.20	0.9	4500	74	A	
56	**Fe**	1	**1559.000**	ug/l	1,559.00	1.1	450000	74	A	
59	**Co**	1	**9.282**	ug/l	9.28	1.2	4500	74	P	
60	**Ni**	1	**34.340**	ug/l	34.34	1.3	4500	74	P	
63	**Cu**	1	**0.382**	ug/l	0.38	2.9	4500	74	P	
66	**Zn**	1	**3.234**	ug/l	3.23	0.8	4500	74	P	
75	**As**	1	**5.380**	ug/l	5.38	2.5	4500	74	P	
78	**Se**	1	**0.789**	ug/l	0.79	19.8	4500	74	P	
88	**Sr**	1	**4114.000**	ug/l	4,114.00	0.8	4500	103	A	
95	**Mo**	1	**15.870**	ug/l	15.87	1.4	4500	103	P	
109	**Ag**	1	**0.017**	ug/l	0.02	44.6	4500	103	P	
111	**Cd**	1	**0.053**	ug/l	0.05	64.2	4500	103	P	
118	**Sn**	1	**0.303**	ug/l	0.30	11.7	4500	103	P	
123	**Sb**	1	**2.074**	ug/l	2.07	7.8	4500	103	P	
135	**Ba**	1	**109.600**	ug/l	109.60	0.1	4500	103	P	
200	**Hg**	1	**0.029**	ug/l	0.03	11.6	45	209	P	
205	**Tl**	1	**0.025**	ug/l	0.02	15.2	4500	209	P	
208	**Pb**	1	**0.076**	ug/l	0.08	12.9	4500	209	P	
238	**U**	1	**2.171**	ug/l	2.17	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	69885	0.62	96090	**72.7**	30 - 125	
45	Sc	1	1332113	4.77	1758000	**75.8**	30 - 125	
74	Ge	1	2563219	1.55	4097000	**62.6**	30 - 125	
103	Rh	1	3238785	2.16	5915000	**54.8**	30 - 125	
165	Ho	1	1470962	2.63	2615000	**56.3**	30 - 125	
175	Lu	1	1178276	0.68	2149000	**54.8**	30 - 125	
209	Bi	1	1219597	0.97	2737000	**44.6**	30 - 125	

Analytes: **Fail** **ISTD:** **Pass**

2 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\040SMPL.D\040SMPL.D#
Date Acquired: Aug 5 2011 11:04 am Acq. Method: 00He_ALL.M
Sample Name: 580-27743-C-1-C MS Vial Number: 2305
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**122.000**	ug/l	122.00	2.4	900	74	P	
23	**Na**	1	**--------**	ug/l	----	--------	450000	45	E	Fail
24	**Mg**	1	**667200.000**	ug/l	667,200.00	2.0	450000	45	A	Fail
27	**Al**	1	**1109.000**	ug/l	1,109.00	1.7	450000	45	P	
31	**P**	1	**10940.000**	ug/l	10,940.00	1.2	450000	45	P	
39	**K**	1	**207900.000**	ug/l	207,900.00	1.0	450000	45	A	
44	**Ca**	1	**224600.000**	ug/l	224,600.00	1.1	450000	45	A	
47	**Ti**	1	**102.400**	ug/l	102.40	0.6	4500	45	P	
51	**V**	1	**122.200**	ug/l	122.20	0.2	4500	74	P	
52	**Cr**	1	**111.200**	ug/l	111.20	0.2	4500	74	P	
55	**Mn**	1	**367.400**	ug/l	367.40	0.6	4500	74	A	
56	**Fe**	1	**12160.000**	ug/l	12,160.00	0.6	450000	74	A	
59	**Co**	1	**110.400**	ug/l	110.40	1.7	4500	74	M	
60	**Ni**	1	**131.800**	ug/l	131.80	1.0	4500	74	P	
63	**Cu**	1	**96.370**	ug/l	96.37	0.8	4500	74	P	
66	**Zn**	1	**96.530**	ug/l	96.53	0.4	4500	74	P	
75	**As**	1	**112.000**	ug/l	112.00	0.8	4500	74	P	
78	**Se**	1	**92.340**	ug/l	92.34	0.8	4500	74	P	
88	**Sr**	1	**4190.000**	ug/l	4,190.00	0.5	4500	103	A	
95	**Mo**	1	**128.500**	ug/l	128.50	1.5	4500	103	P	
109	**Ag**	1	**101.300**	ug/l	101.30	1.5	4500	103	P	
111	**Cd**	1	**99.450**	ug/l	99.45	1.4	4500	103	P	
118	**Sn**	1	**103.700**	ug/l	103.70	1.1	4500	103	P	
123	**Sb**	1	**105.400**	ug/l	105.40	1.1	4500	103	P	
135	**Ba**	1	**206.600**	ug/l	206.60	0.7	4500	103	P	
200	**Hg**	1	**0.039**	ug/l	0.04	6.2	45	209	P	
205	**Tl**	1	**79.920**	ug/l	79.92	5.2	4500	209	P	
208	**Pb**	1	**107.100**	ug/l	107.10	3.0	4500	209	P	
238	**U**	1	**110.300**	ug/l	110.30	1.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	64415	3.93	96090	**67.0**	30	-	125	
45	Sc	1	1261382	0.77	1758000	**71.8**	30	-	125	
74	Ge	1	2471382	1.39	4097000	**60.3**	30	-	125	
103	Rh	1	3125977	0.81	5915000	**52.8**	30	-	125	
165	Ho	1	1429621	1.67	2615000	**54.7**	30	-	125	
175	Lu	1	1143306	1.69	2149000	**53.2**	30	-	125	
209	Bi	1	1212946	1.28	2737000	**44.3**	30	-	125	

Analytes: **Fail** **ISTD:** **Pass**

2 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\041SMPL.D\041SMPL.D#
Date Acquired: Aug 5 2011 11:09 am Acq. Method: 00He_ALL.M
Sample Name: 580-27743-C-1-D MSD Vial Number: 2306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**120.200**	ug/l	120.20	2.8	900	74	P	
23	**Na**	1	**--------**	ug/l	----	--------	450000	45	E	Fail
24	**Mg**	1	**677900.000**	ug/l	677,900.00	3.2	450000	45	A	Fail
27	**Al**	1	**1128.000**	ug/l	1,128.00	3.2	450000	45	P	
31	**P**	1	**10860.000**	ug/l	10,860.00	2.3	450000	45	P	
39	**K**	1	**212300.000**	ug/l	212,300.00	2.1	450000	45	A	
44	**Ca**	1	**228800.000**	ug/l	228,800.00	2.4	450000	45	A	
47	**Ti**	1	**105.400**	ug/l	105.40	2.6	4500	45	P	
51	**V**	1	**122.000**	ug/l	122.00	1.1	4500	74	P	
52	**Cr**	1	**110.900**	ug/l	110.90	1.2	4500	74	P	
55	**Mn**	1	**374.300**	ug/l	374.30	1.2	4500	74	A	
56	**Fe**	1	**12130.000**	ug/l	12,130.00	0.9	450000	74	A	
59	**Co**	1	**110.900**	ug/l	110.90	2.6	4500	74	M	
60	**Ni**	1	**131.100**	ug/l	131.10	2.2	4500	74	P	
63	**Cu**	1	**96.070**	ug/l	96.07	1.6	4500	74	P	
66	**Zn**	1	**95.470**	ug/l	95.47	2.2	4500	74	P	
75	**As**	1	**110.000**	ug/l	110.00	1.1	4500	74	P	
78	**Se**	1	**92.510**	ug/l	92.51	2.0	4500	74	P	
88	**Sr**	1	**4230.000**	ug/l	4,230.00	0.4	4500	103	A	
95	**Mo**	1	**129.100**	ug/l	129.10	0.7	4500	103	P	
109	**Ag**	1	**102.300**	ug/l	102.30	0.8	4500	103	P	
111	**Cd**	1	**99.060**	ug/l	99.06	1.1	4500	103	P	
118	**Sn**	1	**105.800**	ug/l	105.80	0.8	4500	103	P	
123	**Sb**	1	**105.900**	ug/l	105.90	1.2	4500	103	P	
135	**Ba**	1	**208.700**	ug/l	208.70	1.1	4500	103	P	
200	**Hg**	1	**0.032**	ug/l	0.03	8.9	45	209	P	
205	**Tl**	1	**83.930**	ug/l	83.93	7.9	4500	209	P	
208	**Pb**	1	**110.200**	ug/l	110.20	1.6	4500	209	P	
238	**U**	1	**110.800**	ug/l	110.80	2.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	66268	0.71	96090	**69.0**	30 - 125	
45	Sc	1	1296724	3.90	1758000	**73.8**	30 - 125	
74	Ge	1	2577076	1.83	4097000	**62.9**	30 - 125	
103	Rh	1	3224567	1.09	5915000	**54.5**	30 - 125	
165	Ho	1	1504972	0.83	2615000	**57.6**	30 - 125	
175	Lu	1	1212894	1.37	2149000	**56.4**	30 - 125	
209	Bi	1	1232318	1.47	2737000	**45.0**	30 - 125	

Analytes: **Fail** **ISTD:** **Pass**

2 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\042SMPL.D\042SMPL.D#
Date Acquired: Aug 5 2011 11:13 am Acq. Method: 00He_ALL.M
Sample Name: 580-27743-C-1-A PDS Vial Number: 2307
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**114.100**	ug/l	114.10	1.5	900	74	P	
23	**Na**	1	**--------**	ug/l	----	--------	450000	45	E	Fail
24	**Mg**	1	**654600.000**	ug/l	654,600.00	1.9	450000	45	A	Fail
27	**Al**	1	**1079.000**	ug/l	1,079.00	1.8	450000	45	P	
31	**P**	1	**10570.000**	ug/l	10,570.00	2.0	450000	45	P	
39	**K**	1	**208000.000**	ug/l	208,000.00	2.4	450000	45	A	
44	**Ca**	1	**223500.000**	ug/l	223,500.00	1.7	450000	45	A	
47	**Ti**	1	**101.700**	ug/l	101.70	1.4	4500	45	P	
51	**V**	1	**119.000**	ug/l	119.00	0.5	4500	74	P	
52	**Cr**	1	**108.000**	ug/l	108.00	0.7	4500	74	P	
55	**Mn**	1	**362.800**	ug/l	362.80	0.9	4500	74	A	
56	**Fe**	1	**11830.000**	ug/l	11,830.00	0.7	450000	74	A	
59	**Co**	1	**109.500**	ug/l	109.50	0.7	4500	74	P	
60	**Ni**	1	**128.800**	ug/l	128.80	1.4	4500	74	P	
63	**Cu**	1	**94.200**	ug/l	94.20	1.3	4500	74	P	
66	**Zn**	1	**95.210**	ug/l	95.21	1.0	4500	74	P	
75	**As**	1	**109.600**	ug/l	109.60	0.5	4500	74	P	
78	**Se**	1	**91.760**	ug/l	91.76	0.9	4500	74	P	
88	**Sr**	1	**4147.000**	ug/l	4,147.00	1.2	4500	103	A	
95	**Mo**	1	**127.200**	ug/l	127.20	0.2	4500	103	P	
109	**Ag**	1	**100.400**	ug/l	100.40	0.7	4500	103	P	
111	**Cd**	1	**98.600**	ug/l	98.60	0.7	4500	103	P	
118	**Sn**	1	**103.400**	ug/l	103.40	0.1	4500	103	P	
123	**Sb**	1	**105.000**	ug/l	105.00	0.4	4500	103	P	
135	**Ba**	1	**206.400**	ug/l	206.40	0.5	4500	103	P	
200	**Hg**	1	**0.030**	ug/l	0.03	27.8	45	209	P	
205	**Tl**	1	**81.980**	ug/l	81.98	8.2	4500	209	P	
208	**Pb**	1	**108.400**	ug/l	108.40	0.8	4500	209	P	
238	**U**	1	**110.200**	ug/l	110.20	0.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	59968	0.38	96090	**62.4**	30 - 125	
45	Sc	1	1249049	2.37	1758000	**71.0**	30 - 125	
74	Ge	1	2489060	1.59	4097000	**60.8**	30 - 125	
103	Rh	1	3148180	1.19	5915000	**53.2**	30 - 125	
165	Ho	1	1471960	0.92	2615000	**56.3**	30 - 125	
175	Lu	1	1175476	0.91	2149000	**54.7**	30 - 125	
209	Bi	1	1221564	1.11	2737000	**44.6**	30 - 125	

Analytes: **Fail** **ISTD:** **Pass**

2 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\043SMPL.D\043SMPL.D#
Date Acquired: Aug 5 2011 11:18 am Acq. Method: 00He_ALL.M
Sample Name: LCS 580-92044/14-A Vial Number: 2308
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**106.200**	ug/l	106.20	1.2	900	74	P	
23	**Na**	1	**11060.000**	ug/l	11,060.00	0.8	450000	45	A	
24	**Mg**	1	**10660.000**	ug/l	10,660.00	1.6	450000	45	A	
27	**Al**	1	**1077.000**	ug/l	1,077.00	1.4	450000	45	A	
31	**P**	1	**10680.000**	ug/l	10,680.00	0.5	450000	45	P	
39	**K**	1	**10400.000**	ug/l	10,400.00	0.7	450000	45	A	
44	**Ca**	1	**10150.000**	ug/l	10,150.00	1.0	450000	45	P	
47	**Ti**	1	**98.730**	ug/l	98.73	0.8	4500	45	P	
51	**V**	1	**102.100**	ug/l	102.10	2.3	4500	74	A	
52	**Cr**	1	**101.500**	ug/l	101.50	2.6	4500	74	A	
55	**Mn**	1	**102.100**	ug/l	102.10	1.5	4500	74	P	
56	**Fe**	1	**10050.000**	ug/l	10,050.00	1.7	450000	74	A	
59	**Co**	1	**100.400**	ug/l	100.40	0.8	4500	74	A	
60	**Ni**	1	**98.100**	ug/l	98.10	1.4	4500	74	P	
63	**Cu**	1	**96.790**	ug/l	96.79	0.6	4500	74	A	
66	**Zn**	1	**99.040**	ug/l	99.04	1.1	4500	74	P	
75	**As**	1	**99.830**	ug/l	99.83	1.1	4500	74	P	
78	**Se**	1	**103.300**	ug/l	103.30	1.4	4500	74	P	
88	**Sr**	1	**102.900**	ug/l	102.90	2.4	4500	103	A	
95	**Mo**	1	**98.540**	ug/l	98.54	1.4	4500	103	P	
109	**Ag**	1	**100.400**	ug/l	100.40	1.6	4500	103	A	
111	**Cd**	1	**100.200**	ug/l	100.20	1.7	4500	103	P	
118	**Sn**	1	**98.350**	ug/l	98.35	1.5	4500	103	P	
123	**Sb**	1	**99.800**	ug/l	99.80	1.4	4500	103	P	
135	**Ba**	1	**99.440**	ug/l	99.44	2.3	4500	103	P	
200	**Hg**	1	**0.002**	ug/l	0.00	28.4	45	209	P	
205	**Tl**	1	**99.960**	ug/l	99.96	1.6	4500	209	A	
208	**Pb**	1	**100.100**	ug/l	100.10	1.4	4500	209	A	
238	**U**	1	**96.610**	ug/l	96.61	1.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	111377	1.15	96090	**115.9**	30	-	125	
45	Sc	1	2063724	0.31	1758000	**117.4**	30	-	125	
74	Ge	1	4523803	1.10	4097000	**110.4**	30	-	125	
103	Rh	1	6060287	1.61	5915000	**102.5**	30	-	125	
165	Ho	1	2646036	1.48	2615000	**101.2**	30	-	125	
175	Lu	1	2195415	0.15	2149000	**102.2**	30	-	125	
209	Bi	1	2620124	0.67	2737000	**95.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\044SMPL.D\044SMPL.D#
Date Acquired: Aug 5 2011 11:23 am Acq. Method: 00He_ALL.M
Sample Name: LCSD 580-92044/15-A Vial Number: 2309
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**105.200**	ug/l	105.20	2.1	900	74	P	
23	**Na**	1	**10670.000**	ug/l	10,670.00	1.0	450000	45	A	
24	**Mg**	1	**10500.000**	ug/l	10,500.00	0.5	450000	45	A	
27	**Al**	1	**1071.000**	ug/l	1,071.00	2.7	450000	45	A	
31	**P**	1	**10710.000**	ug/l	10,710.00	0.9	450000	45	M	
39	**K**	1	**10460.000**	ug/l	10,460.00	0.2	450000	45	A	
44	**Ca**	1	**10170.000**	ug/l	10,170.00	0.3	450000	45	P	
47	**Ti**	1	**98.700**	ug/l	98.70	1.7	4500	45	P	
51	**V**	1	**103.800**	ug/l	103.80	0.9	4500	74	A	
52	**Cr**	1	**100.800**	ug/l	100.80	0.2	4500	74	A	
55	**Mn**	1	**101.600**	ug/l	101.60	1.1	4500	74	P	
56	**Fe**	1	**9979.000**	ug/l	9,979.00	0.5	450000	74	A	
59	**Co**	1	**99.080**	ug/l	99.08	0.9	4500	74	A	
60	**Ni**	1	**97.810**	ug/l	97.81	1.6	4500	74	P	
63	**Cu**	1	**97.100**	ug/l	97.10	0.4	4500	74	A	
66	**Zn**	1	**98.550**	ug/l	98.55	1.3	4500	74	P	
75	**As**	1	**99.370**	ug/l	99.37	1.5	4500	74	P	
78	**Se**	1	**101.600**	ug/l	101.60	1.5	4500	74	P	
88	**Sr**	1	**106.900**	ug/l	106.90	0.1	4500	103	A	
95	**Mo**	1	**99.150**	ug/l	99.15	0.9	4500	103	P	
109	**Ag**	1	**101.700**	ug/l	101.70	0.7	4500	103	A	
111	**Cd**	1	**100.200**	ug/l	100.20	0.7	4500	103	P	
118	**Sn**	1	**99.600**	ug/l	99.60	1.2	4500	103	P	
123	**Sb**	1	**100.700**	ug/l	100.70	0.6	4500	103	P	
135	**Ba**	1	**100.600**	ug/l	100.60	0.5	4500	103	P	
200	**Hg**	1	**0.004**	ug/l	0.00	158.3	45	209	P	
205	**Tl**	1	**98.620**	ug/l	98.62	3.3	4500	209	A	
208	**Pb**	1	**98.990**	ug/l	98.99	0.6	4500	209	A	
238	**U**	1	**95.630**	ug/l	95.63	1.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	113049	0.57	96090	**117.6**	30	-	125	
45	Sc	1	2118334	1.56	1758000	**120.5**	30	-	125	
74	Ge	1	4632814	1.66	4097000	**113.1**	30	-	125	
103	Rh	1	6123423	0.84	5915000	**103.5**	30	-	125	
165	Ho	1	2719948	1.61	2615000	**104.0**	30	-	125	
175	Lu	1	2252796	0.65	2149000	**104.8**	30	-	125	
209	Bi	1	2676358	0.75	2737000	**97.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\045SMPL.D\045SMPL.D#
Date Acquired: Aug 5 2011 11:27 am Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**51.470**	ug/l	51.47	1.1	900	74	P	
23	**Na**	1	**5286.000**	ug/l	5,286.00	2.4	450000	45	A	
24	**Mg**	1	**5171.000**	ug/l	5,171.00	1.6	450000	45	A	
27	**Al**	1	**536.500**	ug/l	536.50	0.8	450000	45	P	
31	**P**	1	**5205.000**	ug/l	5,205.00	1.1	450000	45	P	
39	**K**	1	**5188.000**	ug/l	5,188.00	0.8	450000	45	A	
44	**Ca**	1	**5003.000**	ug/l	5,003.00	1.3	450000	45	P	
47	**Ti**	1	**48.750**	ug/l	48.75	1.4	4500	45	P	
51	**V**	1	**50.080**	ug/l	50.08	1.5	4500	74	P	
52	**Cr**	1	**49.630**	ug/l	49.63	2.0	4500	74	P	
55	**Mn**	1	**50.790**	ug/l	50.79	1.6	4500	74	P	
56	**Fe**	1	**4940.000**	ug/l	4,940.00	2.3	450000	74	A	
59	**Co**	1	**49.180**	ug/l	49.18	1.7	4500	74	P	
60	**Ni**	1	**48.460**	ug/l	48.46	1.6	4500	74	P	
63	**Cu**	1	**48.680**	ug/l	48.68	1.2	4500	74	P	
66	**Zn**	1	**47.390**	ug/l	47.39	0.8	4500	74	P	
75	**As**	1	**48.980**	ug/l	48.98	1.7	4500	74	P	
78	**Se**	1	**49.980**	ug/l	49.98	1.3	4500	74	P	
88	**Sr**	1	**52.140**	ug/l	52.14	0.7	4500	103	P	
95	**Mo**	1	**49.050**	ug/l	49.05	1.2	4500	103	P	
109	**Ag**	1	**49.440**	ug/l	49.44	0.2	4500	103	P	
111	**Cd**	1	**49.930**	ug/l	49.93	1.8	4500	103	P	
118	**Sn**	1	**50.270**	ug/l	50.27	1.0	4500	103	P	
123	**Sb**	1	**49.970**	ug/l	49.97	0.5	4500	103	P	
135	**Ba**	1	**49.880**	ug/l	49.88	1.1	4500	103	P	
200	**Hg**	1	**2.383**	ug/l	2.38	1.1	45	209	P	
205	**Tl**	1	**47.080**	ug/l	47.08	2.8	4500	209	A	
208	**Pb**	1	**48.510**	ug/l	48.51	1.0	4500	209	P	
238	**U**	1	**46.390**	ug/l	46.39	1.1	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	116745	1.19	96090	**121.5**	30	-	125	
45	Sc	1	2145846	1.61	1758000	**122.1**	30	-	125	
74	Ge	1	4664152	1.14	4097000	**113.8**	30	-	125	
103	Rh	1	6138736	0.73	5915000	**103.8**	30	-	125	
165	Ho	1	2775745	1.45	2615000	**106.1**	30	-	125	
175	Lu	1	2270881	1.25	2149000	**105.7**	30	-	125	
209	Bi	1	2742204	1.27	2737000	**100.2**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\046SMPL.D\046SMPL.D#
Date Acquired: Aug 5 2011 11:32 am Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.002**	ug/l	0.00	178.1	900	74	P	
23	**Na**	1	**132.100**	ug/l	132.10	1.5	450000	45	P	
24	**Mg**	1	**0.758**	ug/l	0.76	9.8	450000	45	P	
27	**Al**	1	**-0.214**	ug/l	-0.21	16.4	450000	45	P	
31	**P**	1	**3.578**	ug/l	3.58	11.6	450000	45	P	
39	**K**	1	**11.880**	ug/l	11.88	11.3	450000	45	P	
44	**Ca**	1	**-0.373**	ug/l	-0.37	145.1	450000	45	P	
47	**Ti**	1	**0.040**	ug/l	0.04	26.6	4500	45	P	
51	**V**	1	**0.033**	ug/l	0.03	108.5	4500	74	P	
52	**Cr**	1	**0.003**	ug/l	0.00	270.2	4500	74	P	
55	**Mn**	1	**0.003**	ug/l	0.00	188.4	4500	74	P	
56	**Fe**	1	**2.876**	ug/l	2.88	2.3	450000	74	P	
59	**Co**	1	**-0.001**	ug/l	0.00	33.8	4500	74	P	
60	**Ni**	1	**0.003**	ug/l	0.00	202.9	4500	74	P	
63	**Cu**	1	**0.075**	ug/l	0.08	3.6	4500	74	P	
66	**Zn**	1	**-0.001**	ug/l	0.00	3027.8	4500	74	P	
75	**As**	1	**0.005**	ug/l	0.00	294.8	4500	74	P	
78	**Se**	1	**0.190**	ug/l	0.19	7.8	4500	74	P	
88	**Sr**	1	**0.017**	ug/l	0.02	28.2	4500	103	P	
95	**Mo**	1	**0.068**	ug/l	0.07	21.7	4500	103	P	
109	**Ag**	1	**0.003**	ug/l	0.00	14.0	4500	103	P	
111	**Cd**	1	**0.002**	ug/l	0.00	767.6	4500	103	P	
118	**Sn**	1	**0.318**	ug/l	0.32	12.3	4500	103	P	
123	**Sb**	1	**0.051**	ug/l	0.05	40.5	4500	103	P	
135	**Ba**	1	**0.005**	ug/l	0.01	205.4	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.01	55.1	45	209	P	
205	**Tl**	1	**0.468**	ug/l	0.47	9.0	4500	209	P	
208	**Pb**	1	**-0.005**	ug/l	0.00	244.7	4500	209	P	
238	**U**	1	**0.012**	ug/l	0.01	22.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	120427	0.55	96090	**125.3**	30	-	125	**IS Fail**
45	Sc	1	2199933	0.30	1758000	**125.1**	30	-	125	**IS Fail**
74	Ge	1	4734158	1.46	4097000	**115.6**	30	-	125	
103	Rh	1	6443756	0.01	5915000	**108.9**	30	-	125	
165	Ho	1	2777280	1.11	2615000	**106.2**	30	-	125	
175	Lu	1	2326825	1.21	2149000	**108.3**	30	-	125	
209	Bi	1	2856949	2.24	2737000	**104.4**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\047SMPL.D\047SMPL.D#
Date Acquired: Aug 5 2011 11:37 am Acq. Method: 00He_ALL.M
Sample Name: 580-27758-A-1-A Vial Number: 2401
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.003**	ug/l	0.00	213.0	900	74	P	
23	**Na**	1	**15290.000**	ug/l	15,290.00	1.8	450000	45	A	
24	**Mg**	1	**9502.000**	ug/l	9,502.00	2.4	450000	45	A	
27	**Al**	1	**3.592**	ug/l	3.59	1.2	450000	45	P	
31	**P**	1	**198.300**	ug/l	198.30	2.4	450000	45	P	
39	**K**	1	**3313.000**	ug/l	3,313.00	1.3	450000	45	A	
44	**Ca**	1	**19150.000**	ug/l	19,150.00	1.3	450000	45	A	
47	**Ti**	1	**0.314**	ug/l	0.31	5.1	4500	45	P	
51	**V**	1	**1.517**	ug/l	1.52	2.7	4500	74	P	
52	**Cr**	1	**0.202**	ug/l	0.20	11.7	4500	74	P	
55	**Mn**	1	**0.617**	ug/l	0.62	3.1	4500	74	P	
56	**Fe**	1	**83.800**	ug/l	83.80	2.5	450000	74	P	
59	**Co**	1	**0.042**	ug/l	0.04	12.3	4500	74	P	
60	**Ni**	1	**0.616**	ug/l	0.62	6.3	4500	74	P	
63	**Cu**	1	**22.210**	ug/l	22.21	2.9	4500	74	P	
66	**Zn**	1	**15.890**	ug/l	15.89	1.3	4500	74	P	
75	**As**	1	**1.388**	ug/l	1.39	4.6	4500	74	P	
78	**Se**	1	**0.278**	ug/l	0.28	8.5	4500	74	P	
88	**Sr**	1	**127.400**	ug/l	127.40	1.5	4500	103	A	
95	**Mo**	1	**0.524**	ug/l	0.52	6.0	4500	103	P	
109	**Ag**	1	**0.009**	ug/l	0.01	40.0	4500	103	P	
111	**Cd**	1	**0.006**	ug/l	0.01	93.7	4500	103	P	
118	**Sn**	1	**0.314**	ug/l	0.31	6.9	4500	103	P	
123	**Sb**	1	**0.058**	ug/l	0.06	22.0	4500	103	P	
135	**Ba**	1	**11.140**	ug/l	11.14	3.4	4500	103	P	
200	**Hg**	1	**0.004**	ug/l	0.00	45.1	45	209	P	
205	**Tl**	1	**0.246**	ug/l	0.25	17.3	4500	209	P	
208	**Pb**	1	**0.321**	ug/l	0.32	1.5	4500	209	P	
238	**U**	1	**0.021**	ug/l	0.02	10.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	114537	0.67	96090	**119.2**	30 - 125	
45	Sc	1	2068901	2.58	1758000	**117.7**	30 - 125	
74	Ge	1	4521013	1.67	4097000	**110.3**	30 - 125	
103	Rh	1	5875433	0.61	5915000	**99.3**	30 - 125	
165	Ho	1	2697805	1.56	2615000	**103.2**	30 - 125	
175	Lu	1	2248974	1.25	2149000	**104.7**	30 - 125	
209	Bi	1	2698946	1.02	2737000	**98.6**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\048SMPL.D\048SMPL.D#
Date Acquired: Aug 5 2011 11:42 am Acq. Method: 00He_ALL.M
Sample Name: 580-27758-A-2-A Vial Number: 2402
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.002**	ug/l	0.00	247.0	900	74	P	
23	**Na**	1	**15140.000**	ug/l	15,140.00	1.5	450000	45	A	
24	**Mg**	1	**9479.000**	ug/l	9,479.00	1.6	450000	45	A	
27	**Al**	1	**5.661**	ug/l	5.66	4.1	450000	45	P	
31	**P**	1	**208.300**	ug/l	208.30	3.5	450000	45	P	
39	**K**	1	**3292.000**	ug/l	3,292.00	2.6	450000	45	A	
44	**Ca**	1	**18550.000**	ug/l	18,550.00	1.9	450000	45	A	
47	**Ti**	1	**0.422**	ug/l	0.42	10.1	4500	45	P	
51	**V**	1	**1.735**	ug/l	1.74	0.9	4500	74	P	
52	**Cr**	1	**0.223**	ug/l	0.22	3.0	4500	74	P	
55	**Mn**	1	**1.409**	ug/l	1.41	3.3	4500	74	P	
56	**Fe**	1	**49.260**	ug/l	49.26	1.3	450000	74	P	
59	**Co**	1	**0.040**	ug/l	0.04	19.9	4500	74	P	
60	**Ni**	1	**0.447**	ug/l	0.45	6.2	4500	74	P	
63	**Cu**	1	**20.590**	ug/l	20.59	1.3	4500	74	P	
66	**Zn**	1	**1.845**	ug/l	1.85	3.5	4500	74	P	
75	**As**	1	**1.460**	ug/l	1.46	5.0	4500	74	P	
78	**Se**	1	**0.315**	ug/l	0.31	18.3	4500	74	P	
88	**Sr**	1	**125.600**	ug/l	125.60	1.1	4500	103	A	
95	**Mo**	1	**0.509**	ug/l	0.51	5.0	4500	103	P	
109	**Ag**	1	**0.005**	ug/l	0.01	20.1	4500	103	P	
111	**Cd**	1	**0.004**	ug/l	0.00	239.2	4500	103	P	
118	**Sn**	1	**0.254**	ug/l	0.25	15.8	4500	103	P	
123	**Sb**	1	**0.050**	ug/l	0.05	9.2	4500	103	P	
135	**Ba**	1	**11.220**	ug/l	11.22	2.9	4500	103	P	
200	**Hg**	1	**0.000**	ug/l	0.00	999.4	45	209	P	
205	**Tl**	1	**0.197**	ug/l	0.20	21.5	4500	209	P	
208	**Pb**	1	**0.089**	ug/l	0.09	15.4	4500	209	P	
238	**U**	1	**0.021**	ug/l	0.02	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	113260	0.68	96090	**117.9**	30 - 125	
45	Sc	1	2048158	2.51	1758000	**116.5**	30 - 125	
74	Ge	1	4480593	0.83	4097000	**109.4**	30 - 125	
103	Rh	1	5864330	0.62	5915000	**99.1**	30 - 125	
165	Ho	1	2710120	1.85	2615000	**103.6**	30 - 125	
175	Lu	1	2283573	2.06	2149000	**106.3**	30 - 125	
209	Bi	1	2708854	1.32	2737000	**99.0**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\049SMPL.D\049SMPL.D#
Date Acquired: Aug 5 2011 11:46 am Acq. Method: 00He_ALL.M
Sample Name: 580-27758-A-3-A Vial Number: 2403
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.012**	ug/l	0.01	32.3	900	74	P	
23	**Na**	1	**15300.000**	ug/l	15,300.00	3.9	450000	45	A	
24	**Mg**	1	**9513.000**	ug/l	9,513.00	3.9	450000	45	A	
27	**Al**	1	**2.828**	ug/l	2.83	8.5	450000	45	P	
31	**P**	1	**309.700**	ug/l	309.70	4.9	450000	45	P	
39	**K**	1	**3332.000**	ug/l	3,332.00	4.3	450000	45	A	
44	**Ca**	1	**18750.000**	ug/l	18,750.00	3.9	450000	45	A	
47	**Ti**	1	**0.293**	ug/l	0.29	9.4	4500	45	P	
51	**V**	1	**1.774**	ug/l	1.77	2.1	4500	74	P	
52	**Cr**	1	**0.581**	ug/l	0.58	2.8	4500	74	P	
55	**Mn**	1	**1.206**	ug/l	1.21	3.6	4500	74	P	
56	**Fe**	1	**5.870**	ug/l	5.87	0.9	450000	74	P	
59	**Co**	1	**0.148**	ug/l	0.15	1.6	4500	74	P	
60	**Ni**	1	**43.280**	ug/l	43.28	1.9	4500	74	P	
63	**Cu**	1	**187.200**	ug/l	187.20	0.2	4500	74	A	
66	**Zn**	1	**476.000**	ug/l	476.00	1.1	4500	74	A	
75	**As**	1	**1.357**	ug/l	1.36	4.4	4500	74	P	
78	**Se**	1	**0.308**	ug/l	0.31	10.2	4500	74	P	
88	**Sr**	1	**129.400**	ug/l	129.40	1.9	4500	103	A	
95	**Mo**	1	**0.497**	ug/l	0.50	1.0	4500	103	P	
109	**Ag**	1	**0.080**	ug/l	0.08	6.1	4500	103	P	
111	**Cd**	1	**0.098**	ug/l	0.10	24.8	4500	103	P	
118	**Sn**	1	**0.377**	ug/l	0.38	3.3	4500	103	P	
123	**Sb**	1	**0.158**	ug/l	0.16	2.9	4500	103	P	
135	**Ba**	1	**10.430**	ug/l	10.43	3.2	4500	103	P	
200	**Hg**	1	**0.008**	ug/l	0.01	40.2	45	209	P	
205	**Tl**	1	**0.166**	ug/l	0.17	18.6	4500	209	P	
208	**Pb**	1	**2.748**	ug/l	2.75	0.4	4500	209	P	
238	**U**	1	**0.019**	ug/l	0.02	7.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	115613	1.14	96090	**120.3**	30 - 125	
45	Sc	1	2051201	4.33	1758000	**116.7**	30 - 125	
74	Ge	1	4459089	1.36	4097000	**108.8**	30 - 125	
103	Rh	1	5905627	0.82	5915000	**99.8**	30 - 125	
165	Ho	1	2705684	1.59	2615000	**103.5**	30 - 125	
175	Lu	1	2266155	1.24	2149000	**105.5**	30 - 125	
209	Bi	1	2788554	0.40	2737000	**101.9**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\050SMPL.D\050SMPL.D#
Date Acquired: Aug 5 2011 11:51 am Acq. Method: 00He_ALL.M
Sample Name: 580-27758-A-4-A Vial Number: 2404
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.001**	ug/l	0.00	285.4	900	74	P	
23	**Na**	1	**15760.000**	ug/l	15,760.00	1.2	450000	45	A	
24	**Mg**	1	**9446.000**	ug/l	9,446.00	2.4	450000	45	A	
27	**Al**	1	**2.268**	ug/l	2.27	10.2	450000	45	P	
31	**P**	1	**227.800**	ug/l	227.80	3.0	450000	45	P	
39	**K**	1	**3611.000**	ug/l	3,611.00	3.2	450000	45	A	
44	**Ca**	1	**18450.000**	ug/l	18,450.00	1.4	450000	45	A	
47	**Ti**	1	**0.280**	ug/l	0.28	10.5	4500	45	P	
51	**V**	1	**1.900**	ug/l	1.90	1.3	4500	74	P	
52	**Cr**	1	**0.169**	ug/l	0.17	13.7	4500	74	P	
55	**Mn**	1	**0.237**	ug/l	0.24	3.5	4500	74	P	
56	**Fe**	1	**3.797**	ug/l	3.80	3.4	450000	74	P	
59	**Co**	1	**0.042**	ug/l	0.04	9.3	4500	74	P	
60	**Ni**	1	**0.845**	ug/l	0.84	3.0	4500	74	P	
63	**Cu**	1	**40.070**	ug/l	40.07	1.5	4500	74	P	
66	**Zn**	1	**8.585**	ug/l	8.59	1.4	4500	74	P	
75	**As**	1	**1.597**	ug/l	1.60	1.5	4500	74	P	
78	**Se**	1	**0.280**	ug/l	0.28	30.0	4500	74	P	
88	**Sr**	1	**129.500**	ug/l	129.50	0.6	4500	103	A	
95	**Mo**	1	**0.574**	ug/l	0.57	4.9	4500	103	P	
109	**Ag**	1	**0.011**	ug/l	0.01	25.2	4500	103	P	
111	**Cd**	1	**0.012**	ug/l	0.01	55.1	4500	103	P	
118	**Sn**	1	**0.278**	ug/l	0.28	9.3	4500	103	P	
123	**Sb**	1	**0.046**	ug/l	0.05	8.9	4500	103	P	
135	**Ba**	1	**10.050**	ug/l	10.05	1.0	4500	103	P	
200	**Hg**	1	**0.001**	ug/l	0.00	135.3	45	209	P	
205	**Tl**	1	**0.130**	ug/l	0.13	14.6	4500	209	P	
208	**Pb**	1	**0.210**	ug/l	0.21	3.5	4500	209	P	
238	**U**	1	**0.018**	ug/l	0.02	6.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115434	0.73	96090	**120.1**	30	-	125	
45	Sc	1	2021537	2.60	1758000	**115.0**	30	-	125	
74	Ge	1	4482018	0.95	4097000	**109.4**	30	-	125	
103	Rh	1	5852050	1.72	5915000	**98.9**	30	-	125	
165	Ho	1	2717717	0.51	2615000	**103.9**	30	-	125	
175	Lu	1	2304826	1.79	2149000	**107.3**	30	-	125	
209	Bi	1	2753261	0.22	2737000	**100.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\051SMPL.D\051SMPL.D#
Date Acquired: Aug 5 2011 11:56 am Acq. Method: 00He_ALL.M
Sample Name: 580-27758-A-5-A Vial Number: 2405
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.003**	ug/l	0.00	221.8	900	74	P	
23	**Na**	1	**15000.000**	ug/l	15,000.00	0.7	450000	45	A	
24	**Mg**	1	**9367.000**	ug/l	9,367.00	0.8	450000	45	A	
27	**Al**	1	**2.726**	ug/l	2.73	4.9	450000	45	P	
31	**P**	1	**182.900**	ug/l	182.90	2.0	450000	45	P	
39	**K**	1	**3472.000**	ug/l	3,472.00	1.2	450000	45	A	
44	**Ca**	1	**18730.000**	ug/l	18,730.00	1.6	450000	45	A	
47	**Ti**	1	**0.403**	ug/l	0.40	14.4	4500	45	P	
51	**V**	1	**1.966**	ug/l	1.97	3.1	4500	74	P	
52	**Cr**	1	**0.914**	ug/l	0.91	6.9	4500	74	P	
55	**Mn**	1	**1.897**	ug/l	1.90	3.3	4500	74	P	
56	**Fe**	1	**5.838**	ug/l	5.84	1.9	450000	74	P	
59	**Co**	1	**0.174**	ug/l	0.17	2.1	4500	74	P	
60	**Ni**	1	**2.116**	ug/l	2.12	2.8	4500	74	P	
63	**Cu**	1	**226.500**	ug/l	226.50	1.3	4500	74	A	
66	**Zn**	1	**147.800**	ug/l	147.80	1.2	4500	74	P	
75	**As**	1	**1.446**	ug/l	1.45	2.6	4500	74	P	
78	**Se**	1	**0.275**	ug/l	0.28	18.7	4500	74	P	
88	**Sr**	1	**126.300**	ug/l	126.30	0.4	4500	103	A	
95	**Mo**	1	**0.504**	ug/l	0.50	5.1	4500	103	P	
109	**Ag**	1	**0.018**	ug/l	0.02	11.6	4500	103	P	
111	**Cd**	1	**0.038**	ug/l	0.04	12.6	4500	103	P	
118	**Sn**	1	**0.239**	ug/l	0.24	14.8	4500	103	P	
123	**Sb**	1	**0.085**	ug/l	0.09	10.4	4500	103	P	
135	**Ba**	1	**11.840**	ug/l	11.84	2.9	4500	103	P	
200	**Hg**	1	**0.000**	ug/l	0.00	840.4	45	209	P	
205	**Tl**	1	**0.112**	ug/l	0.11	18.5	4500	209	P	
208	**Pb**	1	**1.277**	ug/l	1.28	0.3	4500	209	P	
238	**U**	1	**0.014**	ug/l	0.01	20.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	113751	0.81	96090	**118.4**	30 - 125	
45	Sc	1	2050261	1.21	1758000	**116.6**	30 - 125	
74	Ge	1	4514071	1.15	4097000	**110.2**	30 - 125	
103	Rh	1	5897073	1.26	5915000	**99.7**	30 - 125	
165	Ho	1	2721415	1.21	2615000	**104.1**	30 - 125	
175	Lu	1	2279322	0.71	2149000	**106.1**	30 - 125	
209	Bi	1	2780639	0.53	2737000	**101.6**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\052SMPL.D\052SMPL.D#
Date Acquired: Aug 5 2011 12:00 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27758-A-6-A Vial Number: 2406
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.001**	ug/l	0.00	146.1	900	74	P	
23	**Na**	1	**15050.000**	ug/l	15,050.00	0.2	450000	45	A	
24	**Mg**	1	**9488.000**	ug/l	9,488.00	0.3	450000	45	A	
27	**Al**	1	**2.979**	ug/l	2.98	3.5	450000	45	P	
31	**P**	1	**210.200**	ug/l	210.20	2.6	450000	45	P	
39	**K**	1	**3305.000**	ug/l	3,305.00	0.5	450000	45	A	
44	**Ca**	1	**19180.000**	ug/l	19,180.00	1.5	450000	45	A	
47	**Ti**	1	**0.259**	ug/l	0.26	5.2	4500	45	P	
51	**V**	1	**1.919**	ug/l	1.92	3.1	4500	74	P	
52	**Cr**	1	**0.178**	ug/l	0.18	4.7	4500	74	P	
55	**Mn**	1	**0.287**	ug/l	0.29	1.6	4500	74	P	
56	**Fe**	1	**3.670**	ug/l	3.67	2.8	450000	74	P	
59	**Co**	1	**0.043**	ug/l	0.04	12.7	4500	74	P	
60	**Ni**	1	**0.496**	ug/l	0.50	2.0	4500	74	P	
63	**Cu**	1	**34.170**	ug/l	34.17	0.5	4500	74	P	
66	**Zn**	1	**2.226**	ug/l	2.23	2.9	4500	74	P	
75	**As**	1	**1.470**	ug/l	1.47	5.1	4500	74	P	
78	**Se**	1	**0.305**	ug/l	0.30	4.0	4500	74	P	
88	**Sr**	1	**126.000**	ug/l	126.00	1.5	4500	103	A	
95	**Mo**	1	**0.502**	ug/l	0.50	2.1	4500	103	P	
109	**Ag**	1	**0.003**	ug/l	0.00	32.8	4500	103	P	
111	**Cd**	1	**0.008**	ug/l	0.01	120.4	4500	103	P	
118	**Sn**	1	**0.209**	ug/l	0.21	3.5	4500	103	P	
123	**Sb**	1	**0.037**	ug/l	0.04	14.9	4500	103	P	
135	**Ba**	1	**11.390**	ug/l	11.39	3.8	4500	103	P	
200	**Hg**	1	**0.002**	ug/l	0.00	22.7	45	209	P	
205	**Tl**	1	**0.091**	ug/l	0.09	17.0	4500	209	P	
208	**Pb**	1	**0.229**	ug/l	0.23	4.8	4500	209	P	
238	**U**	1	**0.018**	ug/l	0.02	19.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	113617	0.82	96090	**118.2**	30 - 125	
45	Sc	1	2053812	0.23	1758000	**116.8**	30 - 125	
74	Ge	1	4474400	0.76	4097000	**109.2**	30 - 125	
103	Rh	1	5911345	1.09	5915000	**99.9**	30 - 125	
165	Ho	1	2703899	0.71	2615000	**103.4**	30 - 125	
175	Lu	1	2299324	0.22	2149000	**107.0**	30 - 125	
209	Bi	1	2797674	1.45	2737000	**102.2**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\053SMPL.D\053SMPL.D#
Date Acquired: Aug 5 2011 12:05 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**51.820**	ug/l	51.82	0.9	900	74	P	
23	**Na**	1	**5128.000**	ug/l	5,128.00	0.9	450000	45	A	
24	**Mg**	1	**5134.000**	ug/l	5,134.00	2.1	450000	45	A	
27	**Al**	1	**533.200**	ug/l	533.20	0.5	450000	45	P	
31	**P**	1	**5198.000**	ug/l	5,198.00	0.7	450000	45	P	
39	**K**	1	**5136.000**	ug/l	5,136.00	1.0	450000	45	A	
44	**Ca**	1	**5018.000**	ug/l	5,018.00	0.7	450000	45	P	
47	**Ti**	1	**49.260**	ug/l	49.26	1.3	4500	45	P	
51	**V**	1	**49.650**	ug/l	49.65	0.6	4500	74	P	
52	**Cr**	1	**49.120**	ug/l	49.12	0.1	4500	74	P	
55	**Mn**	1	**50.180**	ug/l	50.18	0.8	4500	74	P	
56	**Fe**	1	**4910.000**	ug/l	4,910.00	0.5	450000	74	A	
59	**Co**	1	**48.470**	ug/l	48.47	0.3	4500	74	P	
60	**Ni**	1	**47.930**	ug/l	47.93	0.4	4500	74	P	
63	**Cu**	1	**47.760**	ug/l	47.76	0.8	4500	74	P	
66	**Zn**	1	**47.470**	ug/l	47.47	0.5	4500	74	P	
75	**As**	1	**48.680**	ug/l	48.68	1.0	4500	74	P	
78	**Se**	1	**50.710**	ug/l	50.71	1.0	4500	74	P	
88	**Sr**	1	**51.510**	ug/l	51.51	1.8	4500	103	P	
95	**Mo**	1	**48.990**	ug/l	48.99	1.7	4500	103	P	
109	**Ag**	1	**49.440**	ug/l	49.44	0.8	4500	103	P	
111	**Cd**	1	**49.990**	ug/l	49.99	1.2	4500	103	P	
118	**Sn**	1	**49.710**	ug/l	49.71	1.4	4500	103	P	
123	**Sb**	1	**50.150**	ug/l	50.15	1.4	4500	103	P	
135	**Ba**	1	**50.620**	ug/l	50.62	1.7	4500	103	P	
200	**Hg**	1	**2.372**	ug/l	2.37	1.5	45	209	P	
205	**Tl**	1	**46.360**	ug/l	46.36	2.3	4500	209	A	
208	**Pb**	1	**48.550**	ug/l	48.55	1.1	4500	209	P	
238	**U**	1	**47.820**	ug/l	47.82	1.9	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115561	1.03	96090	**120.3**	30	-	125	
45	Sc	1	2065738	1.68	1758000	**117.5**	30	-	125	
74	Ge	1	4534121	0.38	4097000	**110.7**	30	-	125	
103	Rh	1	6032130	1.16	5915000	**102.0**	30	-	125	
165	Ho	1	2784890	1.12	2615000	**106.5**	30	-	125	
175	Lu	1	2342764	1.09	2149000	**109.0**	30	-	125	
209	Bi	1	2856952	0.96	2737000	**104.4**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\054SMPL.D\054SMPL.D#
Date Acquired: Aug 5 2011 12:10 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.000**	ug/l	0.00	17261.0	900	74	P	
23	**Na**	1	**13.240**	ug/l	13.24	10.5	450000	45	P	
24	**Mg**	1	**0.839**	ug/l	0.84	7.6	450000	45	P	
27	**Al**	1	**0.027**	ug/l	0.03	564.2	450000	45	P	
31	**P**	1	**2.142**	ug/l	2.14	55.1	450000	45	P	
39	**K**	1	**8.260**	ug/l	8.26	24.7	450000	45	P	
44	**Ca**	1	**1.399**	ug/l	1.40	205.4	450000	45	P	
47	**Ti**	1	**0.008**	ug/l	0.01	117.4	4500	45	P	
51	**V**	1	**0.476**	ug/l	0.48	7.9	4500	74	P	
52	**Cr**	1	**0.013**	ug/l	0.01	89.7	4500	74	P	
55	**Mn**	1	**0.003**	ug/l	0.00	370.5	4500	74	P	
56	**Fe**	1	**1.617**	ug/l	1.62	6.0	450000	74	P	
59	**Co**	1	**-0.001**	ug/l	0.00	79.3	4500	74	P	
60	**Ni**	1	**0.022**	ug/l	0.02	8.5	4500	74	P	
63	**Cu**	1	**0.051**	ug/l	0.05	17.0	4500	74	P	
66	**Zn**	1	**-0.021**	ug/l	-0.02	84.1	4500	74	P	
75	**As**	1	**0.058**	ug/l	0.06	36.0	4500	74	P	
78	**Se**	1	**0.157**	ug/l	0.16	12.4	4500	74	P	
88	**Sr**	1	**0.012**	ug/l	0.01	27.7	4500	103	P	
95	**Mo**	1	**0.036**	ug/l	0.04	22.6	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	0.00	69.3	4500	103	P	
111	**Cd**	1	**0.004**	ug/l	0.00	234.0	4500	103	P	
118	**Sn**	1	**0.210**	ug/l	0.21	23.2	4500	103	P	
123	**Sb**	1	**0.030**	ug/l	0.03	41.3	4500	103	P	
135	**Ba**	1	**0.001**	ug/l	0.00	1346.3	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.01	42.1	45	209	P	
205	**Tl**	1	**0.247**	ug/l	0.25	9.4	4500	209	P	
208	**Pb**	1	**-0.013**	ug/l	-0.01	21.1	4500	209	P	
238	**U**	1	**0.008**	ug/l	0.01	9.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	119341	0.82	96090	**124.2**	30	-	125	
45	Sc	1	2093468	1.35	1758000	**119.1**	30	-	125	
74	Ge	1	4542902	1.19	4097000	**110.9**	30	-	125	
103	Rh	1	6278733	0.76	5915000	**106.1**	30	-	125	
165	Ho	1	2796217	0.87	2615000	**106.9**	30	-	125	
175	Lu	1	2354068	0.29	2149000	**109.5**	30	-	125	
209	Bi	1	2921229	0.69	2737000	**106.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\055SMPL.D\055SMPL.D#
Date Acquired: Aug 5 2011 12:15 pm Acq. Method: 00He_ALL.M
Sample Name: MB 580-92055/21-A Vial Number: 2501
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.001**	ug/l	0.01	636.5	900	74	P	
23	**Na**	1	**10.700**	ug/l	107.00	1.3	450000	45	P	
24	**Mg**	1	**1.966**	ug/l	19.66	3.4	450000	45	P	
27	**Al**	1	**2.190**	ug/l	21.90	12.9	450000	45	P	
31	**P**	1	**2.958**	ug/l	29.58	115.9	450000	45	P	
39	**K**	1	**7.070**	ug/l	70.70	12.3	450000	45	P	
44	**Ca**	1	**3.744**	ug/l	37.44	6.2	450000	45	P	
47	**Ti**	1	**0.176**	ug/l	1.76	0.8	4500	45	P	
51	**V**	1	**0.638**	ug/l	6.38	2.5	4500	74	P	
52	**Cr**	1	**0.038**	ug/l	0.38	15.6	4500	74	P	
55	**Mn**	1	**0.059**	ug/l	0.59	19.9	4500	74	P	
56	**Fe**	1	**5.040**	ug/l	50.40	2.2	450000	74	P	
59	**Co**	1	**0.001**	ug/l	0.01	32.4	4500	74	P	
60	**Ni**	1	**0.022**	ug/l	0.22	34.8	4500	74	P	
63	**Cu**	1	**0.092**	ug/l	0.92	4.8	4500	74	P	
66	**Zn**	1	**-0.343**	ug/l	-3.43	5.4	4500	74	P	
75	**As**	1	**0.067**	ug/l	0.67	23.6	4500	74	P	
78	**Se**	1	**0.155**	ug/l	1.55	73.4	4500	74	P	
88	**Sr**	1	**0.089**	ug/l	0.89	10.9	4500	103	P	
95	**Mo**	1	**0.024**	ug/l	0.24	26.1	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	-0.02	96.5	4500	103	P	
111	**Cd**	1	**0.000**	ug/l	0.00	661.8	4500	103	P	
118	**Sn**	1	**0.095**	ug/l	0.95	10.8	4500	103	P	
123	**Sb**	1	**0.012**	ug/l	0.12	30.3	4500	103	P	
135	**Ba**	1	**0.122**	ug/l	1.22	21.1	4500	103	P	
200	**Hg**	1	**-0.001**	ug/l	-0.01	166.0	45	209	P	
205	**Tl**	1	**0.112**	ug/l	1.12	12.3	4500	209	P	
208	**Pb**	1	**0.010**	ug/l	0.10	54.2	4500	209	P	
238	**U**	1	**0.000**	ug/l	0.00	293.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	118721	0.77	96090	**123.6**	30	-	125	
45	Sc	1	2102876	0.84	1758000	**119.6**	30	-	125	
74	Ge	1	4585278	0.54	4097000	**111.9**	30	-	125	
103	Rh	1	6267060	0.62	5915000	**106.0**	30	-	125	
165	Ho	1	2808406	0.61	2615000	**107.4**	30	-	125	
175	Lu	1	2361798	0.46	2149000	**109.9**	30	-	125	
209	Bi	1	2912402	1.43	2737000	**106.4**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\056SMPL.D\056SMPL.D#
Date Acquired: Aug 5 2011 12:19 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-1-A SD Vial Number: 2502
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.060**	ug/l	3.01	18.0	900	74	P	
23	**Na**	1	**1417.000**	ug/l	70,850.00	1.2	450000	45	A	
24	**Mg**	1	**4304.000**	ug/l	215,200.00	1.6	450000	45	A	
27	**Al**	1	**11920.000**	ug/l	596,000.00	0.9	450000	45	A	
31	**P**	1	**180.600**	ug/l	9,030.00	1.3	450000	45	P	
39	**K**	1	**529.400**	ug/l	26,470.00	2.9	450000	45	A	
44	**Ca**	1	**6350.000**	ug/l	317,500.00	0.3	450000	45	P	
47	**Ti**	1	**231.000**	ug/l	11,550.00	0.8	4500	45	P	
51	**V**	1	**35.350**	ug/l	1,767.50	0.6	4500	74	P	
52	**Cr**	1	**9.253**	ug/l	462.65	0.4	4500	74	P	
55	**Mn**	1	**198.800**	ug/l	9,940.00	1.8	4500	74	A	
56	**Fe**	1	**13150.000**	ug/l	657,500.00	1.9	450000	74	A	
59	**Co**	1	**7.412**	ug/l	370.60	0.5	4500	74	P	
60	**Ni**	1	**5.797**	ug/l	289.85	1.2	4500	74	P	
63	**Cu**	1	**20.550**	ug/l	1,027.50	1.3	4500	74	P	
66	**Zn**	1	**38.420**	ug/l	1,921.00	0.6	4500	74	P	
75	**As**	1	**8.362**	ug/l	418.10	0.9	4500	74	P	
78	**Se**	1	**0.403**	ug/l	20.16	2.8	4500	74	P	
88	**Sr**	1	**41.820**	ug/l	2,091.00	1.2	4500	103	P	
95	**Mo**	1	**0.253**	ug/l	12.67	7.3	4500	103	P	
109	**Ag**	1	**0.045**	ug/l	2.26	14.8	4500	103	P	
111	**Cd**	1	**0.122**	ug/l	6.10	9.9	4500	103	P	
118	**Sn**	1	**0.334**	ug/l	16.69	7.7	4500	103	P	
123	**Sb**	1	**0.102**	ug/l	5.10	3.5	4500	103	P	
135	**Ba**	1	**26.140**	ug/l	1,307.00	0.4	4500	103	P	
200	**Hg**	1	**0.003**	ug/l	0.14	64.7	45	209	P	
205	**Tl**	1	**0.129**	ug/l	6.47	4.5	4500	209	P	
208	**Pb**	1	**4.335**	ug/l	216.75	1.7	4500	209	P	
238	**U**	1	**0.006**	ug/l	0.31	14.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	119871	0.80	96090	**124.7**	30	-	125	
45	Sc	1	2158380	0.91	1758000	**122.8**	30	-	125	
74	Ge	1	4608525	0.83	4097000	**112.5**	30	-	125	
103	Rh	1	6143241	0.72	5915000	**103.9**	30	-	125	
165	Ho	1	2746582	1.12	2615000	**105.0**	30	-	125	
175	Lu	1	2332310	0.46	2149000	**108.5**	30	-	125	
209	Bi	1	2799684	1.22	2737000	**102.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\057SMPL.D\057SMPL.D#
Date Acquired: Aug 5 2011 12:24 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-1-A Vial Number: 2503
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.305**	ug/l	3.05	13.3	900	74	P	
23	**Na**	1	**6807.000**	ug/l	68,070.00	1.4	450000	45	A	
24	**Mg**	1	**20070.000**	ug/l	200,700.00	2.7	450000	45	A	
27	**Al**	1	**56600.000**	ug/l	566,000.00	0.6	450000	45	A	
31	**P**	1	**869.600**	ug/l	8,696.00	2.0	450000	45	P	
39	**K**	1	**2393.000**	ug/l	23,930.00	2.4	450000	45	A	
44	**Ca**	1	**30080.000**	ug/l	300,800.00	2.4	450000	45	A	
47	**Ti**	1	**1119.000**	ug/l	11,190.00	1.8	4500	45	P	
51	**V**	1	**172.500**	ug/l	1,725.00	0.4	4500	74	A	
52	**Cr**	1	**45.190**	ug/l	451.90	0.9	4500	74	P	
55	**Mn**	1	**926.700**	ug/l	9,267.00	1.5	4500	74	A	
56	**Fe**	1	**63780.000**	ug/l	637,800.00	0.5	450000	74	A	
59	**Co**	1	**35.900**	ug/l	359.00	0.7	4500	74	P	
60	**Ni**	1	**28.040**	ug/l	280.40	0.7	4500	74	P	
63	**Cu**	1	**97.340**	ug/l	973.40	1.2	4500	74	A	
66	**Zn**	1	**187.900**	ug/l	1,879.00	0.8	4500	74	P	
75	**As**	1	**42.360**	ug/l	423.60	1.0	4500	74	P	
78	**Se**	1	**1.360**	ug/l	13.60	2.7	4500	74	P	
88	**Sr**	1	**205.600**	ug/l	2,056.00	0.3	4500	103	A	
95	**Mo**	1	**1.297**	ug/l	12.97	1.4	4500	103	P	
109	**Ag**	1	**0.267**	ug/l	2.67	1.8	4500	103	P	
111	**Cd**	1	**0.534**	ug/l	5.34	4.9	4500	103	P	
118	**Sn**	1	**1.575**	ug/l	15.75	4.4	4500	103	P	
123	**Sb**	1	**0.418**	ug/l	4.18	4.8	4500	103	P	
135	**Ba**	1	**130.800**	ug/l	1,308.00	0.5	4500	103	P	
200	**Hg**	1	**0.011**	ug/l	0.11	22.0	45	209	P	
205	**Tl**	1	**0.151**	ug/l	1.51	9.6	4500	209	P	
208	**Pb**	1	**21.430**	ug/l	214.30	0.4	4500	209	P	
238	**U**	1	**0.046**	ug/l	0.46	8.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	113462	1.30	96090	**118.1**	30	-	125	
45	Sc	1	2118296	2.42	1758000	**120.5**	30	-	125	
74	Ge	1	4443586	1.19	4097000	**108.5**	30	-	125	
103	Rh	1	5759513	0.42	5915000	**97.4**	30	-	125	
165	Ho	1	2687113	1.51	2615000	**102.8**	30	-	125	
175	Lu	1	2277381	1.19	2149000	**106.0**	30	-	125	
209	Bi	1	2657091	0.72	2737000	**97.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\058SMPL.D\058SMPL.D#
Date Acquired: Aug 5 2011 12:29 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-1-B DU Vial Number: 2504
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.286**	ug/l	2.86	14.8	900	74	P	
23	**Na**	1	**6939.000**	ug/l	69,390.00	2.1	450000	45	A	
24	**Mg**	1	**19760.000**	ug/l	197,600.00	0.7	450000	45	A	
27	**Al**	1	**56110.000**	ug/l	561,100.00	1.7	450000	45	A	
31	**P**	1	**741.200**	ug/l	7,412.00	0.9	450000	45	P	
39	**K**	1	**2523.000**	ug/l	25,230.00	1.9	450000	45	A	
44	**Ca**	1	**30580.000**	ug/l	305,800.00	1.6	450000	45	A	
47	**Ti**	1	**1221.000**	ug/l	12,210.00	0.6	4500	45	P	
51	**V**	1	**170.100**	ug/l	1,701.00	0.9	4500	74	A	
52	**Cr**	1	**43.690**	ug/l	436.90	0.7	4500	74	P	
55	**Mn**	1	**944.500**	ug/l	9,445.00	1.1	4500	74	A	
56	**Fe**	1	**63460.000**	ug/l	634,600.00	0.9	450000	74	A	
59	**Co**	1	**36.180**	ug/l	361.80	1.9	4500	74	P	
60	**Ni**	1	**27.540**	ug/l	275.40	1.0	4500	74	P	
63	**Cu**	1	**98.540**	ug/l	985.40	1.9	4500	74	A	
66	**Zn**	1	**203.300**	ug/l	2,033.00	1.9	4500	74	P	
75	**As**	1	**44.120**	ug/l	441.20	1.8	4500	74	P	
78	**Se**	1	**1.407**	ug/l	14.07	4.0	4500	74	P	
88	**Sr**	1	**206.600**	ug/l	2,066.00	2.1	4500	103	A	
95	**Mo**	1	**1.259**	ug/l	12.59	3.4	4500	103	P	
109	**Ag**	1	**0.268**	ug/l	2.68	6.9	4500	103	P	
111	**Cd**	1	**0.646**	ug/l	6.46	11.8	4500	103	P	
118	**Sn**	1	**1.492**	ug/l	14.92	2.2	4500	103	P	
123	**Sb**	1	**0.447**	ug/l	4.47	10.2	4500	103	P	
135	**Ba**	1	**128.600**	ug/l	1,286.00	2.0	4500	103	P	
200	**Hg**	1	**0.010**	ug/l	0.10	59.5	45	209	P	
205	**Tl**	1	**0.140**	ug/l	1.40	9.1	4500	209	P	
208	**Pb**	1	**26.400**	ug/l	264.00	0.1	4500	209	P	
238	**U**	1	**0.050**	ug/l	0.50	5.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114254	0.28	96090	**118.9**	30	-	125	
45	Sc	1	2130529	0.92	1758000	**121.2**	30	-	125	
74	Ge	1	4426367	1.90	4097000	**108.0**	30	-	125	
103	Rh	1	5756662	1.50	5915000	**97.3**	30	-	125	
165	Ho	1	2692996	1.30	2615000	**103.0**	30	-	125	
175	Lu	1	2259547	1.57	2149000	**105.1**	30	-	125	
209	Bi	1	2641365	0.28	2737000	**96.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\059SMPL.D\059SMPL.D#
Date Acquired: Aug 5 2011 12:33 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-1-C MS Vial Number: 2505
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.513**	ug/l	125.65	1.5	900	74	P	
23	**Na**	1	**1904.000**	ug/l	95,200.00	1.2	450000	45	A	
24	**Mg**	1	**4732.000**	ug/l	236,600.00	0.8	450000	45	A	
27	**Al**	1	**12200.000**	ug/l	610,000.00	0.9	450000	45	A	
31	**P**	1	**655.500**	ug/l	32,775.00	1.1	450000	45	P	
39	**K**	1	**992.900**	ug/l	49,645.00	1.8	450000	45	A	
44	**Ca**	1	**6593.000**	ug/l	329,650.00	0.8	450000	45	P	
47	**Ti**	1	**325.600**	ug/l	16,280.00	0.3	4500	45	P	
51	**V**	1	**58.380**	ug/l	2,919.00	1.0	4500	74	P	
52	**Cr**	1	**16.710**	ug/l	835.50	2.1	4500	74	P	
55	**Mn**	1	**214.400**	ug/l	10,720.00	1.2	4500	74	A	
56	**Fe**	1	**13410.000**	ug/l	670,500.00	1.9	450000	74	A	
59	**Co**	1	**29.080**	ug/l	1,454.00	0.4	4500	74	P	
60	**Ni**	1	**27.640**	ug/l	1,382.00	0.8	4500	74	P	
63	**Cu**	1	**40.350**	ug/l	2,017.50	1.3	4500	74	P	
66	**Zn**	1	**54.520**	ug/l	2,726.00	0.6	4500	74	P	
75	**As**	1	**95.490**	ug/l	4,774.50	1.4	4500	74	P	
78	**Se**	1	**91.090**	ug/l	4,554.50	1.8	4500	74	P	
88	**Sr**	1	**41.020**	ug/l	2,051.00	0.7	4500	103	P	
95	**Mo**	1	**109.800**	ug/l	5,490.00	0.4	4500	103	P	
109	**Ag**	1	**13.370**	ug/l	668.50	2.2	4500	103	P	
111	**Cd**	1	**2.383**	ug/l	119.15	4.5	4500	103	P	
118	**Sn**	1	**107.600**	ug/l	5,380.00	1.6	4500	103	P	
123	**Sb**	1	**39.030**	ug/l	1,951.50	1.5	4500	103	P	
135	**Ba**	1	**117.500**	ug/l	5,875.00	1.4	4500	103	P	
200	**Hg**	1	**1.085**	ug/l	54.25	1.6	45	209	P	
205	**Tl**	1	**93.390**	ug/l	4,669.50	2.3	4500	209	A	
208	**Pb**	1	**26.680**	ug/l	1,334.00	1.8	4500	209	P	
238	**U**	1	**0.008**	ug/l	0.39	14.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	122074	0.24	96090	**127.0**	30	-	125	**IS Fail**
45	Sc	1	2162506	0.51	1758000	**123.0**	30	-	125	
74	Ge	1	4679167	1.49	4097000	**114.2**	30	-	125	
103	Rh	1	6141690	0.99	5915000	**103.8**	30	-	125	
165	Ho	1	2783268	1.80	2615000	**106.4**	30	-	125	
175	Lu	1	2332167	1.08	2149000	**108.5**	30	-	125	
209	Bi	1	2766523	1.61	2737000	**101.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\060SMPL.D\060SMPL.D#
Date Acquired: Aug 5 2011 12:38 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-1-D MSD Vial Number: 2506
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.292**	ug/l	114.60	2.5	900	74	P	
23	**Na**	1	**1753.000**	ug/l	87,650.00	3.5	450000	45	A	
24	**Mg**	1	**4388.000**	ug/l	219,400.00	2.1	450000	45	A	
27	**Al**	1	**11210.000**	ug/l	560,500.00	2.9	450000	45	A	
31	**P**	1	**634.800**	ug/l	31,740.00	1.1	450000	45	P	
39	**K**	1	**925.800**	ug/l	46,290.00	0.8	450000	45	A	
44	**Ca**	1	**6168.000**	ug/l	308,400.00	1.4	450000	45	P	
47	**Ti**	1	**305.700**	ug/l	15,285.00	2.5	4500	45	P	
51	**V**	1	**55.330**	ug/l	2,766.50	1.0	4500	74	P	
52	**Cr**	1	**16.010**	ug/l	800.50	1.4	4500	74	P	
55	**Mn**	1	**205.300**	ug/l	10,265.00	2.0	4500	74	A	
56	**Fe**	1	**12820.000**	ug/l	641,000.00	1.3	450000	74	A	
59	**Co**	1	**27.660**	ug/l	1,383.00	1.1	4500	74	P	
60	**Ni**	1	**26.080**	ug/l	1,304.00	1.4	4500	74	P	
63	**Cu**	1	**38.270**	ug/l	1,913.50	1.3	4500	74	P	
66	**Zn**	1	**51.690**	ug/l	2,584.50	0.8	4500	74	P	
75	**As**	1	**91.330**	ug/l	4,566.50	1.5	4500	74	P	
78	**Se**	1	**87.500**	ug/l	4,375.00	0.6	4500	74	P	
88	**Sr**	1	**38.970**	ug/l	1,948.50	0.7	4500	103	P	
95	**Mo**	1	**103.500**	ug/l	5,175.00	0.1	4500	103	P	
109	**Ag**	1	**12.520**	ug/l	626.00	0.2	4500	103	P	
111	**Cd**	1	**2.276**	ug/l	113.80	3.4	4500	103	P	
118	**Sn**	1	**100.800**	ug/l	5,040.00	0.2	4500	103	P	
123	**Sb**	1	**36.530**	ug/l	1,826.50	0.5	4500	103	P	
135	**Ba**	1	**110.100**	ug/l	5,505.00	0.6	4500	103	P	
200	**Hg**	1	**1.035**	ug/l	51.75	0.2	45	209	P	
205	**Tl**	1	**86.690**	ug/l	4,334.50	1.2	4500	209	A	
208	**Pb**	1	**25.140**	ug/l	1,257.00	1.9	4500	209	P	
238	**U**	1	**0.009**	ug/l	0.43	18.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	120681	1.93	96090	**125.6**	30	-	125	**IS Fail**
45	Sc	1	2195395	1.72	1758000	**124.9**	30	-	125	
74	Ge	1	4673827	1.06	4097000	**114.1**	30	-	125	
103	Rh	1	6177928	0.59	5915000	**104.4**	30	-	125	
165	Ho	1	2779476	2.57	2615000	**106.3**	30	-	125	
175	Lu	1	2311348	1.90	2149000	**107.6**	30	-	125	
209	Bi	1	2787423	1.32	2737000	**101.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\061SMPL.D\061SMPL.D#
Date Acquired: Aug 5 2011 12:43 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-1-A PDS Vial Number: 2507
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.310**	ug/l	115.50	2.4	900	74	P	
23	**Na**	1	**1744.000**	ug/l	87,200.00	2.6	450000	45	A	
24	**Mg**	1	**4382.000**	ug/l	219,100.00	3.0	450000	45	A	
27	**Al**	1	**11190.000**	ug/l	559,500.00	2.0	450000	45	A	
31	**P**	1	**616.700**	ug/l	30,835.00	1.7	450000	45	P	
39	**K**	1	**920.400**	ug/l	46,020.00	1.3	450000	45	A	
44	**Ca**	1	**6114.000**	ug/l	305,700.00	2.5	450000	45	P	
47	**Ti**	1	**301.100**	ug/l	15,055.00	2.2	4500	45	P	
51	**V**	1	**54.540**	ug/l	2,727.00	1.2	4500	74	P	
52	**Cr**	1	**15.850**	ug/l	792.50	1.6	4500	74	P	
55	**Mn**	1	**201.600**	ug/l	10,080.00	1.1	4500	74	A	
56	**Fe**	1	**12640.000**	ug/l	632,000.00	1.3	450000	74	A	
59	**Co**	1	**27.380**	ug/l	1,369.00	2.0	4500	74	P	
60	**Ni**	1	**25.910**	ug/l	1,295.50	2.4	4500	74	P	
63	**Cu**	1	**37.720**	ug/l	1,886.00	1.0	4500	74	P	
66	**Zn**	1	**51.640**	ug/l	2,582.00	2.2	4500	74	P	
75	**As**	1	**90.380**	ug/l	4,519.00	1.7	4500	74	P	
78	**Se**	1	**86.610**	ug/l	4,330.50	1.8	4500	74	P	
88	**Sr**	1	**38.600**	ug/l	1,930.00	2.0	4500	103	P	
95	**Mo**	1	**103.600**	ug/l	5,180.00	1.8	4500	103	P	
109	**Ag**	1	**12.440**	ug/l	622.00	2.8	4500	103	P	
111	**Cd**	1	**2.281**	ug/l	114.05	4.7	4500	103	P	
118	**Sn**	1	**100.900**	ug/l	5,045.00	2.0	4500	103	P	
123	**Sb**	1	**36.740**	ug/l	1,837.00	2.0	4500	103	P	
135	**Ba**	1	**110.700**	ug/l	5,535.00	2.3	4500	103	P	
200	**Hg**	1	**1.033**	ug/l	51.65	3.9	45	209	P	
205	**Tl**	1	**87.550**	ug/l	4,377.50	0.2	4500	209	A	
208	**Pb**	1	**25.200**	ug/l	1,260.00	3.4	4500	209	P	
238	**U**	1	**0.007**	ug/l	0.34	29.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	119686	1.00	96090	**124.6**	30	-	125	
45	Sc	1	2188508	2.46	1758000	**124.5**	30	-	125	
74	Ge	1	4654204	1.81	4097000	**113.6**	30	-	125	
103	Rh	1	6145390	1.91	5915000	**103.9**	30	-	125	
165	Ho	1	2753829	0.54	2615000	**105.3**	30	-	125	
175	Lu	1	2312710	1.45	2149000	**107.6**	30	-	125	
209	Bi	1	2753116	2.74	2737000	**100.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\062SMPL.D\062SMPL.D#
Date Acquired: Aug 5 2011 12:48 pm Acq. Method: 00He_ALL.M
Sample Name: LCS 580-92055/22-A Vial Number: 2508
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.031**	ug/l	101.55	4.7	900	74	P	
23	**Na**	1	**409.300**	ug/l	20,465.00	2.4	450000	45	A	
24	**Mg**	1	**430.900**	ug/l	21,545.00	1.5	450000	45	P	
27	**Al**	1	**84.170**	ug/l	4,208.50	2.3	450000	45	P	
31	**P**	1	**417.200**	ug/l	20,860.00	1.7	450000	45	P	
39	**K**	1	**434.400**	ug/l	21,720.00	1.6	450000	45	A	
44	**Ca**	1	**403.100**	ug/l	20,155.00	1.4	450000	45	P	
47	**Ti**	1	**94.490**	ug/l	4,724.50	1.7	4500	45	P	
51	**V**	1	**20.280**	ug/l	1,014.00	1.3	4500	74	P	
52	**Cr**	1	**7.935**	ug/l	396.75	0.3	4500	74	P	
55	**Mn**	1	**20.290**	ug/l	1,014.50	0.5	4500	74	P	
56	**Fe**	1	**449.100**	ug/l	22,455.00	2.2	450000	74	A	
59	**Co**	1	**19.960**	ug/l	998.00	0.4	4500	74	P	
60	**Ni**	1	**19.790**	ug/l	989.50	0.9	4500	74	P	
63	**Cu**	1	**9.963**	ug/l	498.15	1.2	4500	74	P	
66	**Zn**	1	**18.970**	ug/l	948.50	0.6	4500	74	P	
75	**As**	1	**77.740**	ug/l	3,887.00	0.2	4500	74	P	
78	**Se**	1	**80.840**	ug/l	4,042.00	0.5	4500	74	P	
88	**Sr**	1	**-0.002**	ug/l	-0.12	161.7	4500	103	P	
95	**Mo**	1	**95.260**	ug/l	4,763.00	0.6	4500	103	P	
109	**Ag**	1	**11.900**	ug/l	595.00	1.2	4500	103	P	
111	**Cd**	1	**2.014**	ug/l	100.70	1.8	4500	103	P	
118	**Sn**	1	**100.500**	ug/l	5,025.00	0.6	4500	103	P	
123	**Sb**	1	**57.140**	ug/l	2,857.00	0.7	4500	103	P	
135	**Ba**	1	**79.090**	ug/l	3,954.50	0.8	4500	103	P	
200	**Hg**	1	**0.910**	ug/l	45.50	1.1	45	209	P	
205	**Tl**	1	**72.310**	ug/l	3,615.50	7.2	4500	209	A	
208	**Pb**	1	**19.390**	ug/l	969.50	0.1	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.09	21.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	119072	0.77	96090	**123.9**	30	-	125	
45	Sc	1	2125876	1.87	1758000	**120.9**	30	-	125	
74	Ge	1	4620145	0.17	4097000	**112.8**	30	-	125	
103	Rh	1	6291171	0.99	5915000	**106.4**	30	-	125	
165	Ho	1	2788193	1.78	2615000	**106.6**	30	-	125	
175	Lu	1	2355220	1.49	2149000	**109.6**	30	-	125	
209	Bi	1	2927525	0.25	2737000	**107.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\063SMPL.D\063SMPL.D#
Date Acquired: Aug 5 2011 12:52 pm Acq. Method: 00He_ALL.M
Sample Name: LCSD 580-92055/23-A Vial Number: 2509
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.979**	ug/l	98.95	4.3	900	74	P	
23	**Na**	1	**417.800**	ug/l	20,890.00	2.5	450000	45	A	
24	**Mg**	1	**438.200**	ug/l	21,910.00	1.0	450000	45	P	
27	**Al**	1	**84.420**	ug/l	4,221.00	1.5	450000	45	P	
31	**P**	1	**416.800**	ug/l	20,840.00	1.0	450000	45	P	
39	**K**	1	**438.000**	ug/l	21,900.00	1.9	450000	45	A	
44	**Ca**	1	**408.400**	ug/l	20,420.00	0.3	450000	45	P	
47	**Ti**	1	**95.870**	ug/l	4,793.50	1.0	4500	45	P	
51	**V**	1	**20.180**	ug/l	1,009.00	1.3	4500	74	P	
52	**Cr**	1	**7.904**	ug/l	395.20	0.7	4500	74	P	
55	**Mn**	1	**20.120**	ug/l	1,006.00	0.7	4500	74	P	
56	**Fe**	1	**438.900**	ug/l	21,945.00	1.6	450000	74	A	
59	**Co**	1	**19.770**	ug/l	988.50	2.0	4500	74	P	
60	**Ni**	1	**19.630**	ug/l	981.50	0.6	4500	74	P	
63	**Cu**	1	**9.903**	ug/l	495.15	1.1	4500	74	P	
66	**Zn**	1	**18.730**	ug/l	936.50	3.0	4500	74	P	
75	**As**	1	**78.260**	ug/l	3,913.00	1.4	4500	74	P	
78	**Se**	1	**80.360**	ug/l	4,018.00	1.5	4500	74	P	
88	**Sr**	1	**0.003**	ug/l	0.15	142.7	4500	103	P	
95	**Mo**	1	**94.600**	ug/l	4,730.00	0.8	4500	103	P	
109	**Ag**	1	**11.810**	ug/l	590.50	1.2	4500	103	P	
111	**Cd**	1	**1.928**	ug/l	96.40	3.9	4500	103	P	
118	**Sn**	1	**99.860**	ug/l	4,993.00	0.8	4500	103	P	
123	**Sb**	1	**56.780**	ug/l	2,839.00	0.9	4500	103	P	
135	**Ba**	1	**78.510**	ug/l	3,925.50	1.2	4500	103	P	
200	**Hg**	1	**0.912**	ug/l	45.59	0.6	45	209	P	
205	**Tl**	1	**74.120**	ug/l	3,706.00	4.9	4500	209	A	
208	**Pb**	1	**19.540**	ug/l	977.00	1.1	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.11	14.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	118655	0.97	96090	**123.5**	30	-	125	
45	Sc	1	2104704	0.75	1758000	**119.7**	30	-	125	
74	Ge	1	4671556	0.96	4097000	**114.0**	30	-	125	
103	Rh	1	6377765	0.84	5915000	**107.8**	30	-	125	
165	Ho	1	2865022	0.96	2615000	**109.6**	30	-	125	
175	Lu	1	2369259	1.14	2149000	**110.2**	30	-	125	
209	Bi	1	2945120	1.44	2737000	**107.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\064SMPL.D\064SMPL.D#
Date Acquired: Aug 5 2011 12:57 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**51.300**	ug/l	51.30	0.8	900	74	P	
23	**Na**	1	**4907.000**	ug/l	4,907.00	1.0	450000	45	A	
24	**Mg**	1	**5001.000**	ug/l	5,001.00	2.6	450000	45	A	
27	**Al**	1	**524.100**	ug/l	524.10	1.7	450000	45	P	
31	**P**	1	**5121.000**	ug/l	5,121.00	1.5	450000	45	P	
39	**K**	1	**5094.000**	ug/l	5,094.00	0.5	450000	45	A	
44	**Ca**	1	**4930.000**	ug/l	4,930.00	0.9	450000	45	P	
47	**Ti**	1	**48.160**	ug/l	48.16	1.6	4500	45	P	
51	**V**	1	**49.700**	ug/l	49.70	0.6	4500	74	P	
52	**Cr**	1	**48.750**	ug/l	48.75	0.4	4500	74	P	
55	**Mn**	1	**50.500**	ug/l	50.50	0.6	4500	74	P	
56	**Fe**	1	**4939.000**	ug/l	4,939.00	0.4	450000	74	A	
59	**Co**	1	**48.720**	ug/l	48.72	1.1	4500	74	P	
60	**Ni**	1	**48.080**	ug/l	48.08	0.8	4500	74	P	
63	**Cu**	1	**47.770**	ug/l	47.77	0.6	4500	74	P	
66	**Zn**	1	**46.770**	ug/l	46.77	0.9	4500	74	P	
75	**As**	1	**47.950**	ug/l	47.95	0.3	4500	74	P	
78	**Se**	1	**50.280**	ug/l	50.28	0.8	4500	74	P	
88	**Sr**	1	**52.090**	ug/l	52.09	1.6	4500	103	P	
95	**Mo**	1	**48.580**	ug/l	48.58	1.0	4500	103	P	
109	**Ag**	1	**49.000**	ug/l	49.00	2.0	4500	103	P	
111	**Cd**	1	**49.230**	ug/l	49.23	2.0	4500	103	P	
118	**Sn**	1	**50.400**	ug/l	50.40	0.3	4500	103	P	
123	**Sb**	1	**49.860**	ug/l	49.86	0.9	4500	103	P	
135	**Ba**	1	**50.650**	ug/l	50.65	0.9	4500	103	P	
200	**Hg**	1	**2.355**	ug/l	2.36	2.6	45	209	P	
205	**Tl**	1	**46.910**	ug/l	46.91	2.5	4500	209	A	
208	**Pb**	1	**48.600**	ug/l	48.60	1.4	4500	209	P	
238	**U**	1	**47.290**	ug/l	47.29	2.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115872	0.55	96090	**120.6**	30	-	125	
45	Sc	1	2158249	0.79	1758000	**122.8**	30	-	125	
74	Ge	1	4651547	0.41	4097000	**113.5**	30	-	125	
103	Rh	1	6145970	0.72	5915000	**103.9**	30	-	125	
165	Ho	1	2807130	1.21	2615000	**107.3**	30	-	125	
175	Lu	1	2364406	1.00	2149000	**110.0**	30	-	125	
209	Bi	1	2850256	1.14	2737000	**104.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\065SMPL.D\065SMPL.D#
Date Acquired: Aug 5 2011 01:02 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.008**	ug/l	0.01	121.0	900	74	P	
23	**Na**	1	**-16.180**	ug/l	-16.18	8.5	450000	45	P	
24	**Mg**	1	**0.698**	ug/l	0.70	1.9	450000	45	P	
27	**Al**	1	**-0.005**	ug/l	0.00	2087.6	450000	45	P	
31	**P**	1	**1.826**	ug/l	1.83	27.3	450000	45	P	
39	**K**	1	**3.475**	ug/l	3.48	53.2	450000	45	P	
44	**Ca**	1	**-0.906**	ug/l	-0.91	26.6	450000	45	P	
47	**Ti**	1	**0.035**	ug/l	0.04	12.8	4500	45	P	
51	**V**	1	**0.257**	ug/l	0.26	6.8	4500	74	P	
52	**Cr**	1	**0.012**	ug/l	0.01	17.6	4500	74	P	
55	**Mn**	1	**0.001**	ug/l	0.00	349.9	4500	74	P	
56	**Fe**	1	**1.766**	ug/l	1.77	5.7	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	415.0	4500	74	P	
60	**Ni**	1	**0.007**	ug/l	0.01	32.7	4500	74	P	
63	**Cu**	1	**0.007**	ug/l	0.01	103.5	4500	74	P	
66	**Zn**	1	**-0.053**	ug/l	-0.05	75.0	4500	74	P	
75	**As**	1	**0.062**	ug/l	0.06	54.4	4500	74	P	
78	**Se**	1	**0.194**	ug/l	0.19	19.0	4500	74	P	
88	**Sr**	1	**0.014**	ug/l	0.01	51.6	4500	103	P	
95	**Mo**	1	**0.050**	ug/l	0.05	9.4	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	0.00	26.3	4500	103	P	
111	**Cd**	1	**0.001**	ug/l	0.00	514.6	4500	103	P	
118	**Sn**	1	**0.328**	ug/l	0.33	17.6	4500	103	P	
123	**Sb**	1	**0.050**	ug/l	0.05	15.3	4500	103	P	
135	**Ba**	1	**0.005**	ug/l	0.00	331.8	4500	103	P	
200	**Hg**	1	**0.010**	ug/l	0.01	15.2	45	209	P	
205	**Tl**	1	**0.333**	ug/l	0.33	5.5	4500	209	P	
208	**Pb**	1	**-0.014**	ug/l	-0.01	69.9	4500	209	P	
238	**U**	1	**0.007**	ug/l	0.01	23.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	118158	0.80	96090	**123.0**	30	-	125	
45	Sc	1	2171966	1.92	1758000	**123.5**	30	-	125	
74	Ge	1	4669435	0.64	4097000	**114.0**	30	-	125	
103	Rh	1	6353713	0.67	5915000	**107.4**	30	-	125	
165	Ho	1	2816340	0.55	2615000	**107.7**	30	-	125	
175	Lu	1	2388562	0.70	2149000	**111.1**	30	-	125	
209	Bi	1	2976460	2.16	2737000	**108.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\066SMPL.D\066SMPL.D#
Date Acquired: Aug 5 2011 01:07 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-2-A Vial Number: 3101
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.213**	ug/l	2.13	3.1	900	74	P	
23	**Na**	1	**4807.000**	ug/l	48,070.00	1.7	450000	45	A	
24	**Mg**	1	**17350.000**	ug/l	173,500.00	2.5	450000	45	A	
27	**Al**	1	**44850.000**	ug/l	448,500.00	2.0	450000	45	A	
31	**P**	1	**706.900**	ug/l	7,069.00	2.3	450000	45	P	
39	**K**	1	**2194.000**	ug/l	21,940.00	2.3	450000	45	A	
44	**Ca**	1	**25860.000**	ug/l	258,600.00	1.3	450000	45	A	
47	**Ti**	1	**814.000**	ug/l	8,140.00	1.9	4500	45	P	
51	**V**	1	**141.400**	ug/l	1,414.00	0.2	4500	74	A	
52	**Cr**	1	**35.210**	ug/l	352.10	1.6	4500	74	P	
55	**Mn**	1	**854.800**	ug/l	8,548.00	0.7	4500	74	A	
56	**Fe**	1	**54190.000**	ug/l	541,900.00	1.5	450000	74	A	
59	**Co**	1	**30.840**	ug/l	308.40	2.0	4500	74	P	
60	**Ni**	1	**23.210**	ug/l	232.10	0.8	4500	74	P	
63	**Cu**	1	**78.630**	ug/l	786.30	1.7	4500	74	P	
66	**Zn**	1	**201.300**	ug/l	2,013.00	1.8	4500	74	P	
75	**As**	1	**54.320**	ug/l	543.20	1.8	4500	74	P	
78	**Se**	1	**1.134**	ug/l	11.34	10.2	4500	74	P	
88	**Sr**	1	**161.900**	ug/l	1,619.00	1.3	4500	103	A	
95	**Mo**	1	**0.791**	ug/l	7.91	1.1	4500	103	P	
109	**Ag**	1	**0.204**	ug/l	2.04	1.2	4500	103	P	
111	**Cd**	1	**0.466**	ug/l	4.66	4.3	4500	103	P	
118	**Sn**	1	**1.546**	ug/l	15.46	1.5	4500	103	P	
123	**Sb**	1	**0.440**	ug/l	4.40	9.8	4500	103	P	
135	**Ba**	1	**103.800**	ug/l	1,038.00	1.6	4500	103	P	
200	**Hg**	1	**0.012**	ug/l	0.12	20.8	45	209	P	
205	**Tl**	1	**0.247**	ug/l	2.47	12.3	4500	209	P	
208	**Pb**	1	**15.670**	ug/l	156.70	1.8	4500	209	P	
238	**U**	1	**0.035**	ug/l	0.35	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114166	1.36	96090	**118.8**	30	-	125	
45	Sc	1	2166111	2.17	1758000	**123.2**	30	-	125	
74	Ge	1	4551969	1.44	4097000	**111.1**	30	-	125	
103	Rh	1	5986707	1.12	5915000	**101.2**	30	-	125	
165	Ho	1	2765791	0.68	2615000	**105.8**	30	-	125	
175	Lu	1	2317144	0.84	2149000	**107.8**	30	-	125	
209	Bi	1	2740589	0.48	2737000	**100.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\067SMPL.D\067SMPL.D#
Date Acquired: Aug 5 2011 01:11 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-3-A Vial Number: 3102
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.266**	ug/l	2.66	13.6	900	74	P	
23	**Na**	1	**6405.000**	ug/l	64,050.00	0.7	450000	45	A	
24	**Mg**	1	**20380.000**	ug/l	203,800.00	0.9	450000	45	A	
27	**Al**	1	**56780.000**	ug/l	567,800.00	0.8	450000	45	A	
31	**P**	1	**757.700**	ug/l	7,577.00	0.8	450000	45	P	
39	**K**	1	**2408.000**	ug/l	24,080.00	0.6	450000	45	A	
44	**Ca**	1	**29960.000**	ug/l	299,600.00	1.0	450000	45	A	
47	**Ti**	1	**1105.000**	ug/l	11,050.00	1.4	4500	45	P	
51	**V**	1	**180.200**	ug/l	1,802.00	2.0	4500	74	A	
52	**Cr**	1	**46.210**	ug/l	462.10	1.2	4500	74	P	
55	**Mn**	1	**1001.000**	ug/l	10,010.00	0.3	4500	74	A	
56	**Fe**	1	**66310.000**	ug/l	663,100.00	0.9	450000	74	A	
59	**Co**	1	**37.130**	ug/l	371.30	0.9	4500	74	P	
60	**Ni**	1	**27.090**	ug/l	270.90	0.9	4500	74	P	
63	**Cu**	1	**97.220**	ug/l	972.20	1.0	4500	74	A	
66	**Zn**	1	**234.200**	ug/l	2,342.00	1.2	4500	74	P	
75	**As**	1	**40.760**	ug/l	407.60	1.6	4500	74	P	
78	**Se**	1	**1.441**	ug/l	14.41	4.2	4500	74	P	
88	**Sr**	1	**207.900**	ug/l	2,079.00	0.2	4500	103	A	
95	**Mo**	1	**1.232**	ug/l	12.32	7.5	4500	103	P	
109	**Ag**	1	**0.257**	ug/l	2.57	6.6	4500	103	P	
111	**Cd**	1	**0.598**	ug/l	5.98	6.7	4500	103	P	
118	**Sn**	1	**1.593**	ug/l	15.93	1.7	4500	103	P	
123	**Sb**	1	**0.525**	ug/l	5.25	5.0	4500	103	P	
135	**Ba**	1	**120.500**	ug/l	1,205.00	0.3	4500	103	P	
200	**Hg**	1	**0.015**	ug/l	0.15	11.7	45	209	P	
205	**Tl**	1	**0.192**	ug/l	1.92	9.4	4500	209	P	
208	**Pb**	1	**27.400**	ug/l	274.00	1.8	4500	209	P	
238	**U**	1	**0.046**	ug/l	0.46	6.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	113821	0.82	96090	**118.5**	30 - 125	
45	Sc	1	2159237	0.36	1758000	**122.8**	30 - 125	
74	Ge	1	4489119	0.87	4097000	**109.6**	30 - 125	
103	Rh	1	5930353	0.53	5915000	**100.3**	30 - 125	
165	Ho	1	2751061	1.30	2615000	**105.2**	30 - 125	
175	Lu	1	2297688	0.94	2149000	**106.9**	30 - 125	
209	Bi	1	2688997	1.29	2737000	**98.2**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\068SMPL.D\068SMPL.D#
Date Acquired: Aug 5 2011 01:16 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-4-A Vial Number: 3103
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.299**	ug/l	2.99	3.2	900	74	P	
23	**Na**	1	**6350.000**	ug/l	63,500.00	0.7	450000	45	A	
24	**Mg**	1	**21330.000**	ug/l	213,300.00	1.0	450000	45	A	
27	**Al**	1	**57610.000**	ug/l	576,100.00	1.2	450000	45	A	
31	**P**	1	**811.800**	ug/l	8,118.00	1.4	450000	45	P	
39	**K**	1	**2266.000**	ug/l	22,660.00	1.1	450000	45	A	
44	**Ca**	1	**30080.000**	ug/l	300,800.00	0.6	450000	45	A	
47	**Ti**	1	**1147.000**	ug/l	11,470.00	0.5	4500	45	P	
51	**V**	1	**183.600**	ug/l	1,836.00	0.7	4500	74	A	
52	**Cr**	1	**39.700**	ug/l	397.00	0.8	4500	74	P	
55	**Mn**	1	**978.600**	ug/l	9,786.00	2.4	4500	74	A	
56	**Fe**	1	**67430.000**	ug/l	674,300.00	0.7	450000	74	A	
59	**Co**	1	**35.140**	ug/l	351.40	0.3	4500	74	P	
60	**Ni**	1	**25.100**	ug/l	251.00	0.3	4500	74	P	
63	**Cu**	1	**99.260**	ug/l	992.60	0.7	4500	74	A	
66	**Zn**	1	**173.600**	ug/l	1,736.00	0.3	4500	74	P	
75	**As**	1	**33.030**	ug/l	330.30	0.9	4500	74	P	
78	**Se**	1	**1.406**	ug/l	14.06	2.7	4500	74	P	
88	**Sr**	1	**239.400**	ug/l	2,394.00	1.2	4500	103	A	
95	**Mo**	1	**0.835**	ug/l	8.35	6.8	4500	103	P	
109	**Ag**	1	**0.251**	ug/l	2.51	2.8	4500	103	P	
111	**Cd**	1	**0.539**	ug/l	5.39	5.8	4500	103	P	
118	**Sn**	1	**1.586**	ug/l	15.86	2.0	4500	103	P	
123	**Sb**	1	**0.437**	ug/l	4.37	6.2	4500	103	P	
135	**Ba**	1	**131.800**	ug/l	1,318.00	0.4	4500	103	P	
200	**Hg**	1	**0.007**	ug/l	0.07	4.1	45	209	P	
205	**Tl**	1	**0.163**	ug/l	1.63	15.5	4500	209	P	
208	**Pb**	1	**22.320**	ug/l	223.20	0.2	4500	209	P	
238	**U**	1	**0.046**	ug/l	0.46	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	112689	1.07	96090	**117.3**	30 - 125	
45	Sc	1	2157776	0.98	1758000	**122.7**	30 - 125	
74	Ge	1	4489611	0.97	4097000	**109.6**	30 - 125	
103	Rh	1	5875140	0.47	5915000	**99.3**	30 - 125	
165	Ho	1	2746896	1.63	2615000	**105.0**	30 - 125	
175	Lu	1	2287883	1.34	2149000	**106.5**	30 - 125	
209	Bi	1	2671877	1.01	2737000	**97.6**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\069SMPL.D\069SMPL.D#
Date Acquired: Aug 5 2011 01:21 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-5-A Vial Number: 3104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.258**	ug/l	2.58	20.7	900	74	P	
23	**Na**	1	**6465.000**	ug/l	64,650.00	2.7	450000	45	A	
24	**Mg**	1	**19840.000**	ug/l	198,400.00	1.1	450000	45	A	
27	**Al**	1	**52720.000**	ug/l	527,200.00	0.4	450000	45	A	
31	**P**	1	**970.900**	ug/l	9,709.00	1.5	450000	45	P	
39	**K**	1	**3343.000**	ug/l	33,430.00	0.9	450000	45	A	
44	**Ca**	1	**28390.000**	ug/l	283,900.00	2.2	450000	45	A	
47	**Ti**	1	**1273.000**	ug/l	12,730.00	1.0	4500	45	P	
51	**V**	1	**163.300**	ug/l	1,633.00	0.6	4500	74	A	
52	**Cr**	1	**49.890**	ug/l	498.90	1.5	4500	74	P	
55	**Mn**	1	**925.900**	ug/l	9,259.00	1.8	4500	74	A	
56	**Fe**	1	**62020.000**	ug/l	620,200.00	0.5	450000	74	A	
59	**Co**	1	**36.530**	ug/l	365.30	0.9	4500	74	P	
60	**Ni**	1	**31.890**	ug/l	318.90	1.4	4500	74	P	
63	**Cu**	1	**127.300**	ug/l	1,273.00	2.7	4500	74	A	
66	**Zn**	1	**184.100**	ug/l	1,841.00	1.9	4500	74	P	
75	**As**	1	**33.840**	ug/l	338.40	2.6	4500	74	P	
78	**Se**	1	**1.500**	ug/l	15.00	3.5	4500	74	P	
88	**Sr**	1	**183.300**	ug/l	1,833.00	0.4	4500	103	A	
95	**Mo**	1	**1.285**	ug/l	12.85	0.6	4500	103	P	
109	**Ag**	1	**0.308**	ug/l	3.08	5.5	4500	103	P	
111	**Cd**	1	**0.551**	ug/l	5.51	8.4	4500	103	P	
118	**Sn**	1	**1.640**	ug/l	16.40	1.3	4500	103	P	
123	**Sb**	1	**0.512**	ug/l	5.12	0.6	4500	103	P	
135	**Ba**	1	**147.100**	ug/l	1,471.00	1.5	4500	103	P	
200	**Hg**	1	**0.015**	ug/l	0.15	10.6	45	209	P	
205	**Tl**	1	**0.166**	ug/l	1.66	15.0	4500	209	P	
208	**Pb**	1	**18.180**	ug/l	181.80	1.4	4500	209	P	
238	**U**	1	**0.053**	ug/l	0.53	11.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	113315	0.47	96090	**117.9**	30 - 125	
45	Sc	1	2133241	0.74	1758000	**121.3**	30 - 125	
74	Ge	1	4523165	1.28	4097000	**110.4**	30 - 125	
103	Rh	1	5880902	0.66	5915000	**99.4**	30 - 125	
165	Ho	1	2720152	1.10	2615000	**104.0**	30 - 125	
175	Lu	1	2316068	0.96	2149000	**107.8**	30 - 125	
209	Bi	1	2692660	1.30	2737000	**98.4**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\070SMPL.D\070SMPL.D#
Date Acquired: Aug 5 2011 01:25 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-6-A Vial Number: 3105
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.244**	ug/l	2.44	4.9	900	74	P	
23	**Na**	1	**5428.000**	ug/l	54,280.00	2.6	450000	45	A	
24	**Mg**	1	**17240.000**	ug/l	172,400.00	3.0	450000	45	A	
27	**Al**	1	**44820.000**	ug/l	448,200.00	2.2	450000	45	A	
31	**P**	1	**860.800**	ug/l	8,608.00	3.8	450000	45	P	
39	**K**	1	**2695.000**	ug/l	26,950.00	1.2	450000	45	A	
44	**Ca**	1	**28220.000**	ug/l	282,200.00	2.7	450000	45	A	
47	**Ti**	1	**1110.000**	ug/l	11,100.00	2.5	4500	45	P	
51	**V**	1	**142.800**	ug/l	1,428.00	1.7	4500	74	A	
52	**Cr**	1	**37.480**	ug/l	374.80	1.6	4500	74	P	
55	**Mn**	1	**853.400**	ug/l	8,534.00	2.0	4500	74	A	
56	**Fe**	1	**53200.000**	ug/l	532,000.00	1.2	450000	74	A	
59	**Co**	1	**31.100**	ug/l	311.00	1.4	4500	74	P	
60	**Ni**	1	**26.290**	ug/l	262.90	1.7	4500	74	P	
63	**Cu**	1	**106.900**	ug/l	1,069.00	0.7	4500	74	A	
66	**Zn**	1	**157.900**	ug/l	1,579.00	0.7	4500	74	P	
75	**As**	1	**28.050**	ug/l	280.50	1.9	4500	74	P	
78	**Se**	1	**1.302**	ug/l	13.02	7.2	4500	74	P	
88	**Sr**	1	**170.900**	ug/l	1,709.00	1.1	4500	103	A	
95	**Mo**	1	**0.969**	ug/l	9.69	2.5	4500	103	P	
109	**Ag**	1	**0.269**	ug/l	2.69	2.0	4500	103	P	
111	**Cd**	1	**0.483**	ug/l	4.83	8.9	4500	103	P	
118	**Sn**	1	**1.499**	ug/l	14.99	5.2	4500	103	P	
123	**Sb**	1	**0.402**	ug/l	4.02	9.9	4500	103	P	
135	**Ba**	1	**124.400**	ug/l	1,244.00	1.5	4500	103	P	
200	**Hg**	1	**0.008**	ug/l	0.08	15.3	45	209	P	
205	**Tl**	1	**0.142**	ug/l	1.42	12.7	4500	209	P	
208	**Pb**	1	**18.140**	ug/l	181.40	1.6	4500	209	P	
238	**U**	1	**0.052**	ug/l	0.52	10.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114274	2.02	96090	**118.9**	30	-	125	
45	Sc	1	2159284	2.20	1758000	**122.8**	30	-	125	
74	Ge	1	4570344	0.92	4097000	**111.6**	30	-	125	
103	Rh	1	5926645	0.91	5915000	**100.2**	30	-	125	
165	Ho	1	2784220	0.71	2615000	**106.5**	30	-	125	
175	Lu	1	2339114	0.17	2149000	**108.8**	30	-	125	
209	Bi	1	2741272	0.59	2737000	**100.2**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\071SMPL.D\071SMPL.D#
Date Acquired: Aug 5 2011 01:30 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-7-A Vial Number: 3106
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.238**	ug/l	2.38	6.0	900	74	P	
23	**Na**	1	**5583.000**	ug/l	55,830.00	3.0	450000	45	A	
24	**Mg**	1	**17620.000**	ug/l	176,200.00	1.4	450000	45	A	
27	**Al**	1	**46570.000**	ug/l	465,700.00	0.9	450000	45	A	
31	**P**	1	**853.000**	ug/l	8,530.00	1.4	450000	45	P	
39	**K**	1	**3079.000**	ug/l	30,790.00	1.4	450000	45	A	
44	**Ca**	1	**25760.000**	ug/l	257,600.00	1.3	450000	45	A	
47	**Ti**	1	**1236.000**	ug/l	12,360.00	0.8	4500	45	P	
51	**V**	1	**147.000**	ug/l	1,470.00	1.7	4500	74	A	
52	**Cr**	1	**41.420**	ug/l	414.20	0.6	4500	74	P	
55	**Mn**	1	**829.000**	ug/l	8,290.00	1.8	4500	74	A	
56	**Fe**	1	**53780.000**	ug/l	537,800.00	0.7	450000	74	A	
59	**Co**	1	**30.800**	ug/l	308.00	0.7	4500	74	P	
60	**Ni**	1	**29.970**	ug/l	299.70	0.7	4500	74	P	
63	**Cu**	1	**90.480**	ug/l	904.80	0.8	4500	74	P	
66	**Zn**	1	**191.600**	ug/l	1,916.00	0.4	4500	74	P	
75	**As**	1	**25.050**	ug/l	250.50	1.1	4500	74	P	
78	**Se**	1	**1.342**	ug/l	13.42	9.0	4500	74	P	
88	**Sr**	1	**163.600**	ug/l	1,636.00	1.4	4500	103	A	
95	**Mo**	1	**1.349**	ug/l	13.49	2.2	4500	103	P	
109	**Ag**	1	**0.227**	ug/l	2.27	1.5	4500	103	P	
111	**Cd**	1	**0.634**	ug/l	6.34	14.1	4500	103	P	
118	**Sn**	1	**1.493**	ug/l	14.93	4.2	4500	103	P	
123	**Sb**	1	**0.377**	ug/l	3.77	1.4	4500	103	P	
135	**Ba**	1	**128.700**	ug/l	1,287.00	1.1	4500	103	P	
200	**Hg**	1	**0.007**	ug/l	0.07	61.9	45	209	P	
205	**Tl**	1	**0.132**	ug/l	1.32	18.7	4500	209	P	
208	**Pb**	1	**14.810**	ug/l	148.10	1.1	4500	209	P	
238	**U**	1	**0.054**	ug/l	0.54	22.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	112528	0.73	96090	**117.1**	30 - 125	
45	Sc	1	2137057	1.42	1758000	**121.6**	30 - 125	
74	Ge	1	4558946	0.53	4097000	**111.3**	30 - 125	
103	Rh	1	5955464	0.69	5915000	**100.7**	30 - 125	
165	Ho	1	2731233	1.02	2615000	**104.4**	30 - 125	
175	Lu	1	2313676	0.48	2149000	**107.7**	30 - 125	
209	Bi	1	2692292	0.65	2737000	**98.4**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\072SMPL.D\072SMPL.D#
Date Acquired: Aug 5 2011 01:35 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-8-A Vial Number: 3107
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.288**	ug/l	2.88	5.6	900	74	P	
23	**Na**	1	**7247.000**	ug/l	72,470.00	3.7	450000	45	A	
24	**Mg**	1	**20850.000**	ug/l	208,500.00	1.8	450000	45	A	
27	**Al**	1	**58140.000**	ug/l	581,400.00	2.2	450000	45	A	
31	**P**	1	**976.500**	ug/l	9,765.00	3.4	450000	45	P	
39	**K**	1	**4002.000**	ug/l	40,020.00	1.0	450000	45	A	
44	**Ca**	1	**31190.000**	ug/l	311,900.00	2.7	450000	45	A	
47	**Ti**	1	**1491.000**	ug/l	14,910.00	3.0	4500	45	P	
51	**V**	1	**184.400**	ug/l	1,844.00	1.3	4500	74	A	
52	**Cr**	1	**53.290**	ug/l	532.90	0.5	4500	74	P	
55	**Mn**	1	**1007.000**	ug/l	10,070.00	1.4	4500	74	A	
56	**Fe**	1	**65720.000**	ug/l	657,200.00	1.4	450000	74	A	
59	**Co**	1	**38.200**	ug/l	382.00	0.7	4500	74	P	
60	**Ni**	1	**31.790**	ug/l	317.90	0.2	4500	74	P	
63	**Cu**	1	**117.500**	ug/l	1,175.00	1.5	4500	74	A	
66	**Zn**	1	**191.700**	ug/l	1,917.00	0.9	4500	74	P	
75	**As**	1	**32.120**	ug/l	321.20	0.8	4500	74	P	
78	**Se**	1	**1.740**	ug/l	17.40	5.1	4500	74	P	
88	**Sr**	1	**206.800**	ug/l	2,068.00	0.5	4500	103	A	
95	**Mo**	1	**1.428**	ug/l	14.28	2.2	4500	103	P	
109	**Ag**	1	**0.274**	ug/l	2.74	3.4	4500	103	P	
111	**Cd**	1	**0.534**	ug/l	5.34	6.9	4500	103	P	
118	**Sn**	1	**1.610**	ug/l	16.10	2.2	4500	103	P	
123	**Sb**	1	**0.418**	ug/l	4.18	7.8	4500	103	P	
135	**Ba**	1	**175.000**	ug/l	1,750.00	0.5	4500	103	P	
200	**Hg**	1	**0.008**	ug/l	0.08	31.7	45	209	P	
205	**Tl**	1	**0.164**	ug/l	1.64	10.0	4500	209	P	
208	**Pb**	1	**20.600**	ug/l	206.00	1.9	4500	209	P	
238	**U**	1	**0.074**	ug/l	0.74	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	112454	0.60	96090	**117.0**	30	-	125	
45	Sc	1	2164409	2.47	1758000	**123.1**	30	-	125	
74	Ge	1	4525463	0.34	4097000	**110.5**	30	-	125	
103	Rh	1	5901358	0.43	5915000	**99.8**	30	-	125	
165	Ho	1	2745562	0.52	2615000	**105.0**	30	-	125	
175	Lu	1	2322493	0.92	2149000	**108.1**	30	-	125	
209	Bi	1	2669029	0.84	2737000	**97.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\073SMPL.D\073SMPL.D#
Date Acquired: Aug 5 2011 01:39 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-11-A Vial Number: 3108
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.251**	ug/l	2.51	2.4	900	74	P	
23	**Na**	1	**6107.000**	ug/l	61,070.00	2.5	450000	45	A	
24	**Mg**	1	**17180.000**	ug/l	171,800.00	1.3	450000	45	A	
27	**Al**	1	**47730.000**	ug/l	477,300.00	2.1	450000	45	A	
31	**P**	1	**766.700**	ug/l	7,667.00	2.7	450000	45	P	
39	**K**	1	**3022.000**	ug/l	30,220.00	1.4	450000	45	A	
44	**Ca**	1	**26690.000**	ug/l	266,900.00	1.3	450000	45	A	
47	**Ti**	1	**1286.000**	ug/l	12,860.00	2.0	4500	45	P	
51	**V**	1	**148.900**	ug/l	1,489.00	1.6	4500	74	A	
52	**Cr**	1	**66.820**	ug/l	668.20	0.2	4500	74	P	
55	**Mn**	1	**1133.000**	ug/l	11,330.00	0.3	4500	74	A	
56	**Fe**	1	**57440.000**	ug/l	574,400.00	0.6	450000	74	A	
59	**Co**	1	**31.690**	ug/l	316.90	0.6	4500	74	P	
60	**Ni**	1	**31.460**	ug/l	314.60	1.3	4500	74	P	
63	**Cu**	1	**117.300**	ug/l	1,173.00	0.6	4500	74	A	
66	**Zn**	1	**190.300**	ug/l	1,903.00	1.2	4500	74	P	
75	**As**	1	**28.310**	ug/l	283.10	1.3	4500	74	P	
78	**Se**	1	**1.521**	ug/l	15.21	0.8	4500	74	P	
88	**Sr**	1	**180.700**	ug/l	1,807.00	3.1	4500	103	A	
95	**Mo**	1	**1.835**	ug/l	18.35	0.8	4500	103	P	
109	**Ag**	1	**0.266**	ug/l	2.66	5.3	4500	103	P	
111	**Cd**	1	**0.599**	ug/l	5.99	12.5	4500	103	P	
118	**Sn**	1	**1.792**	ug/l	17.92	2.0	4500	103	P	
123	**Sb**	1	**0.555**	ug/l	5.55	2.0	4500	103	P	
135	**Ba**	1	**135.600**	ug/l	1,356.00	2.7	4500	103	P	
200	**Hg**	1	**0.009**	ug/l	0.09	33.7	45	209	P	
205	**Tl**	1	**0.143**	ug/l	1.43	8.5	4500	209	P	
208	**Pb**	1	**18.640**	ug/l	186.40	2.5	4500	209	P	
238	**U**	1	**0.050**	ug/l	0.50	6.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	112525	1.69	96090	**117.1**	30	-	125	
45	Sc	1	2142547	2.00	1758000	**121.9**	30	-	125	
74	Ge	1	4537121	1.12	4097000	**110.7**	30	-	125	
103	Rh	1	5925327	1.57	5915000	**100.2**	30	-	125	
165	Ho	1	2748283	0.92	2615000	**105.1**	30	-	125	
175	Lu	1	2306227	1.02	2149000	**107.3**	30	-	125	
209	Bi	1	2714123	2.50	2737000	**99.2**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\074SMPL.D\074SMPL.D#
Date Acquired: Aug 5 2011 01:44 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-12-A Vial Number: 3109
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.163**	ug/l	1.63	11.6	900	74	P	
23	**Na**	1	**4355.000**	ug/l	43,550.00	1.3	450000	45	A	
24	**Mg**	1	**15090.000**	ug/l	150,900.00	0.8	450000	45	A	
27	**Al**	1	**37750.000**	ug/l	377,500.00	0.8	450000	45	A	
31	**P**	1	**783.800**	ug/l	7,838.00	0.9	450000	45	P	
39	**K**	1	**2568.000**	ug/l	25,680.00	1.6	450000	45	A	
44	**Ca**	1	**20880.000**	ug/l	208,800.00	0.9	450000	45	A	
47	**Ti**	1	**894.800**	ug/l	8,948.00	2.5	4500	45	P	
51	**V**	1	**121.900**	ug/l	1,219.00	1.9	4500	74	A	
52	**Cr**	1	**34.130**	ug/l	341.30	1.1	4500	74	P	
55	**Mn**	1	**661.600**	ug/l	6,616.00	0.3	4500	74	A	
56	**Fe**	1	**52490.000**	ug/l	524,900.00	0.2	450000	74	A	
59	**Co**	1	**38.460**	ug/l	384.60	1.6	4500	74	P	
60	**Ni**	1	**28.350**	ug/l	283.50	1.5	4500	74	P	
63	**Cu**	1	**91.480**	ug/l	914.80	0.7	4500	74	M	
66	**Zn**	1	**140.000**	ug/l	1,400.00	1.7	4500	74	P	
75	**As**	1	**31.970**	ug/l	319.70	1.1	4500	74	P	
78	**Se**	1	**1.746**	ug/l	17.46	2.5	4500	74	P	
88	**Sr**	1	**124.200**	ug/l	1,242.00	1.2	4500	103	A	
95	**Mo**	1	**0.951**	ug/l	9.51	1.6	4500	103	P	
109	**Ag**	1	**0.248**	ug/l	2.48	1.2	4500	103	P	
111	**Cd**	1	**0.717**	ug/l	7.17	4.2	4500	103	P	
118	**Sn**	1	**1.365**	ug/l	13.65	1.7	4500	103	P	
123	**Sb**	1	**0.346**	ug/l	3.46	4.4	4500	103	P	
135	**Ba**	1	**103.900**	ug/l	1,039.00	1.5	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.06	17.3	45	209	P	
205	**Tl**	1	**0.110**	ug/l	1.10	6.7	4500	209	P	
208	**Pb**	1	**15.330**	ug/l	153.30	1.0	4500	209	P	
238	**U**	1	**0.038**	ug/l	0.38	3.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	112697	1.00	96090	**117.3**	30	-	125	
45	Sc	1	2151729	1.67	1758000	**122.4**	30	-	125	
74	Ge	1	4551635	0.99	4097000	**111.1**	30	-	125	
103	Rh	1	5963745	1.44	5915000	**100.8**	30	-	125	
165	Ho	1	2716185	1.13	2615000	**103.9**	30	-	125	
175	Lu	1	2324524	0.90	2149000	**108.2**	30	-	125	
209	Bi	1	2717294	0.70	2737000	**99.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\075SMPL.D\075SMPL.D#
Date Acquired: Aug 5 2011 01:49 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-13-A Vial Number: 3110
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.255**	ug/l	2.55	5.2	900	74	P	
23	**Na**	1	**6138.000**	ug/l	61,380.00	3.2	450000	45	A	
24	**Mg**	1	**19080.000**	ug/l	190,800.00	2.4	450000	45	A	
27	**Al**	1	**50450.000**	ug/l	504,500.00	1.4	450000	45	A	
31	**P**	1	**919.400**	ug/l	9,194.00	1.0	450000	45	P	
39	**K**	1	**3241.000**	ug/l	32,410.00	0.8	450000	45	A	
44	**Ca**	1	**27840.000**	ug/l	278,400.00	0.8	450000	45	A	
47	**Ti**	1	**1261.000**	ug/l	12,610.00	0.6	4500	45	P	
51	**V**	1	**162.100**	ug/l	1,621.00	0.5	4500	74	A	
52	**Cr**	1	**46.520**	ug/l	465.20	0.3	4500	74	P	
55	**Mn**	1	**876.800**	ug/l	8,768.00	1.0	4500	74	A	
56	**Fe**	1	**58370.000**	ug/l	583,700.00	0.6	450000	74	A	
59	**Co**	1	**33.490**	ug/l	334.90	0.4	4500	74	P	
60	**Ni**	1	**29.050**	ug/l	290.50	0.9	4500	74	P	
63	**Cu**	1	**109.800**	ug/l	1,098.00	0.7	4500	74	A	
66	**Zn**	1	**228.300**	ug/l	2,283.00	0.8	4500	74	P	
75	**As**	1	**30.410**	ug/l	304.10	0.6	4500	74	P	
78	**Se**	1	**1.630**	ug/l	16.30	6.0	4500	74	P	
88	**Sr**	1	**173.400**	ug/l	1,734.00	0.8	4500	103	A	
95	**Mo**	1	**1.343**	ug/l	13.43	2.8	4500	103	P	
109	**Ag**	1	**0.309**	ug/l	3.09	3.7	4500	103	P	
111	**Cd**	1	**0.627**	ug/l	6.27	5.2	4500	103	P	
118	**Sn**	1	**1.523**	ug/l	15.23	1.4	4500	103	P	
123	**Sb**	1	**0.404**	ug/l	4.04	2.1	4500	103	P	
135	**Ba**	1	**138.200**	ug/l	1,382.00	0.7	4500	103	P	
200	**Hg**	1	**0.009**	ug/l	0.09	18.3	45	209	P	
205	**Tl**	1	**0.128**	ug/l	1.28	5.9	4500	209	P	
208	**Pb**	1	**35.120**	ug/l	351.20	1.3	4500	209	P	
238	**U**	1	**0.051**	ug/l	0.51	4.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	110798	1.33	96090	**115.3**	30 - 125	
45	Sc	1	2119411	0.43	1758000	**120.6**	30 - 125	
74	Ge	1	4498044	0.20	4097000	**109.8**	30 - 125	
103	Rh	1	5866736	0.37	5915000	**99.2**	30 - 125	
165	Ho	1	2721415	1.06	2615000	**104.1**	30 - 125	
175	Lu	1	2285441	0.16	2149000	**106.3**	30 - 125	
209	Bi	1	2689495	0.42	2737000	**98.3**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\076SMPL.D\076SMPL.D#
Date Acquired: Aug 5 2011 01:53 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**50.170**	ug/l	50.17	1.4	900	74	P	
23	**Na**	1	**4994.000**	ug/l	4,994.00	0.8	450000	45	A	
24	**Mg**	1	**4961.000**	ug/l	4,961.00	1.3	450000	45	A	
27	**Al**	1	**524.100**	ug/l	524.10	1.0	450000	45	P	
31	**P**	1	**5196.000**	ug/l	5,196.00	1.0	450000	45	P	
39	**K**	1	**5168.000**	ug/l	5,168.00	1.6	450000	45	A	
44	**Ca**	1	**4990.000**	ug/l	4,990.00	1.0	450000	45	P	
47	**Ti**	1	**48.840**	ug/l	48.84	0.2	4500	45	P	
51	**V**	1	**49.260**	ug/l	49.26	2.3	4500	74	P	
52	**Cr**	1	**48.350**	ug/l	48.35	1.7	4500	74	P	
55	**Mn**	1	**49.650**	ug/l	49.65	1.2	4500	74	P	
56	**Fe**	1	**4896.000**	ug/l	4,896.00	1.5	450000	74	A	
59	**Co**	1	**48.210**	ug/l	48.21	1.6	4500	74	P	
60	**Ni**	1	**47.820**	ug/l	47.82	1.4	4500	74	P	
63	**Cu**	1	**47.300**	ug/l	47.30	2.0	4500	74	P	
66	**Zn**	1	**46.640**	ug/l	46.64	2.0	4500	74	P	
75	**As**	1	**48.330**	ug/l	48.33	1.3	4500	74	P	
78	**Se**	1	**49.620**	ug/l	49.62	2.2	4500	74	P	
88	**Sr**	1	**51.680**	ug/l	51.68	2.6	4500	103	P	
95	**Mo**	1	**47.840**	ug/l	47.84	1.9	4500	103	P	
109	**Ag**	1	**48.340**	ug/l	48.34	2.1	4500	103	P	
111	**Cd**	1	**48.820**	ug/l	48.82	2.2	4500	103	P	
118	**Sn**	1	**49.620**	ug/l	49.62	2.9	4500	103	P	
123	**Sb**	1	**49.440**	ug/l	49.44	2.6	4500	103	P	
135	**Ba**	1	**49.590**	ug/l	49.59	2.0	4500	103	P	
200	**Hg**	1	**2.310**	ug/l	2.31	3.1	45	209	P	
205	**Tl**	1	**45.210**	ug/l	45.21	4.7	4500	209	A	
208	**Pb**	1	**48.310**	ug/l	48.31	1.7	4500	209	P	
238	**U**	1	**46.740**	ug/l	46.74	0.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	116469	1.29	96090	**121.2**	30 - 125	
45	Sc	1	2164802	0.67	1758000	**123.1**	30 - 125	
74	Ge	1	4772683	1.74	4097000	**116.5**	30 - 125	
103	Rh	1	6300525	1.76	5915000	**106.5**	30 - 125	
165	Ho	1	2842550	1.51	2615000	**108.7**	30 - 125	
175	Lu	1	2379935	0.09	2149000	**110.7**	30 - 125	
209	Bi	1	2897935	0.97	2737000	**105.9**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\077SMPL.D\077SMPL.D#
Date Acquired: Aug 5 2011 01:58 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.001**	ug/l	0.00	558.9	900	74	P	
23	**Na**	1	**-22.520**	ug/l	-22.52	3.0	450000	45	P	
24	**Mg**	1	**0.462**	ug/l	0.46	7.8	450000	45	P	
27	**Al**	1	**0.106**	ug/l	0.11	71.0	450000	45	P	
31	**P**	1	**-0.076**	ug/l	-0.08	521.1	450000	45	P	
39	**K**	1	**0.693**	ug/l	0.69	394.2	450000	45	P	
44	**Ca**	1	**-1.354**	ug/l	-1.35	20.5	450000	45	P	
47	**Ti**	1	**0.134**	ug/l	0.13	28.1	4500	45	P	
51	**V**	1	**0.273**	ug/l	0.27	14.4	4500	74	P	
52	**Cr**	1	**0.023**	ug/l	0.02	13.0	4500	74	P	
55	**Mn**	1	**0.009**	ug/l	0.01	54.3	4500	74	P	
56	**Fe**	1	**3.449**	ug/l	3.45	0.7	450000	74	P	
59	**Co**	1	**-0.001**	ug/l	0.00	50.7	4500	74	P	
60	**Ni**	1	**0.005**	ug/l	0.01	170.8	4500	74	P	
63	**Cu**	1	**0.003**	ug/l	0.00	224.6	4500	74	P	
66	**Zn**	1	**-0.064**	ug/l	-0.06	57.6	4500	74	P	
75	**As**	1	**0.062**	ug/l	0.06	9.5	4500	74	P	
78	**Se**	1	**0.100**	ug/l	0.10	46.2	4500	74	P	
88	**Sr**	1	**0.009**	ug/l	0.01	112.3	4500	103	P	
95	**Mo**	1	**0.034**	ug/l	0.03	11.7	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	0.00	34.4	4500	103	P	
111	**Cd**	1	**-0.004**	ug/l	0.00	147.7	4500	103	P	
118	**Sn**	1	**0.152**	ug/l	0.15	34.4	4500	103	P	
123	**Sb**	1	**0.025**	ug/l	0.03	32.4	4500	103	P	
135	**Ba**	1	**0.012**	ug/l	0.01	49.0	4500	103	P	
200	**Hg**	1	**0.005**	ug/l	0.00	77.3	45	209	P	
205	**Tl**	1	**0.188**	ug/l	0.19	7.8	4500	209	P	
208	**Pb**	1	**-0.016**	ug/l	-0.02	76.9	4500	209	P	
238	**U**	1	**0.004**	ug/l	0.00	14.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	119409	0.68	96090	**124.3**	30	-	125	
45	Sc	1	2213514	1.64	1758000	**125.9**	30	-	125	**IS Fail**
74	Ge	1	4772152	1.54	4097000	**116.5**	30	-	125	
103	Rh	1	6569492	1.08	5915000	**111.1**	30	-	125	
165	Ho	1	2914910	1.90	2615000	**111.5**	30	-	125	
175	Lu	1	2452103	0.97	2149000	**114.1**	30	-	125	
209	Bi	1	3031789	1.36	2737000	**110.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\078SMPL.D\078SMPL.D#
Date Acquired: Aug 5 2011 02:03 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27687-A-14-A Vial Number: 3201
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.235**	ug/l	2.35	14.6	900	74	P	
23	**Na**	1	**5234.000**	ug/l	52,340.00	0.3	450000	45	A	
24	**Mg**	1	**18790.000**	ug/l	187,900.00	1.0	450000	45	A	
27	**Al**	1	**47900.000**	ug/l	479,000.00	0.7	450000	45	A	
31	**P**	1	**770.700**	ug/l	7,707.00	2.5	450000	45	P	
39	**K**	1	**3148.000**	ug/l	31,480.00	0.5	450000	45	A	
44	**Ca**	1	**25840.000**	ug/l	258,400.00	0.8	450000	45	A	
47	**Ti**	1	**1179.000**	ug/l	11,790.00	0.6	4500	45	P	
51	**V**	1	**159.600**	ug/l	1,596.00	0.9	4500	74	A	
52	**Cr**	1	**42.330**	ug/l	423.30	0.6	4500	74	P	
55	**Mn**	1	**871.200**	ug/l	8,712.00	1.4	4500	74	A	
56	**Fe**	1	**57120.000**	ug/l	571,200.00	0.7	450000	74	A	
59	**Co**	1	**29.050**	ug/l	290.50	1.0	4500	74	P	
60	**Ni**	1	**24.670**	ug/l	246.70	1.0	4500	74	P	
63	**Cu**	1	**101.700**	ug/l	1,017.00	0.3	4500	74	A	
66	**Zn**	1	**203.800**	ug/l	2,038.00	0.3	4500	74	P	
75	**As**	1	**28.790**	ug/l	287.90	0.9	4500	74	P	
78	**Se**	1	**1.352**	ug/l	13.52	2.8	4500	74	P	
88	**Sr**	1	**176.400**	ug/l	1,764.00	1.9	4500	103	A	
95	**Mo**	1	**2.144**	ug/l	21.44	2.3	4500	103	P	
109	**Ag**	1	**0.236**	ug/l	2.36	5.6	4500	103	P	
111	**Cd**	1	**0.589**	ug/l	5.89	7.4	4500	103	P	
118	**Sn**	1	**1.566**	ug/l	15.66	0.4	4500	103	P	
123	**Sb**	1	**0.424**	ug/l	4.24	1.8	4500	103	P	
135	**Ba**	1	**143.400**	ug/l	1,434.00	1.8	4500	103	P	
200	**Hg**	1	**0.012**	ug/l	0.12	17.5	45	209	P	
205	**Tl**	1	**0.166**	ug/l	1.66	8.3	4500	209	P	
208	**Pb**	1	**22.250**	ug/l	222.50	0.9	4500	209	P	
238	**U**	1	**0.058**	ug/l	0.58	7.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	113184	0.63	96090	**117.8**	30 - 125	
45	Sc	1	2192789	0.85	1758000	**124.7**	30 - 125	
74	Ge	1	4634117	0.96	4097000	**113.1**	30 - 125	
103	Rh	1	5995445	0.27	5915000	**101.4**	30 - 125	
165	Ho	1	2803231	1.18	2615000	**107.2**	30 - 125	
175	Lu	1	2326512	1.92	2149000	**108.3**	30 - 125	
209	Bi	1	2741764	0.93	2737000	**100.2**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\079SMPL.D\079SMPL.D#
Date Acquired: Aug 5 2011 02:08 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27715-B-1-A Vial Number: 3202
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.254**	ug/l	22.54	4.2	900	74	P	
23	**Na**	1	**288.900**	ug/l	2,889.00	3.6	450000	45	A	
24	**Mg**	1	**1738.000**	ug/l	17,380.00	0.5	450000	45	A	
27	**Al**	1	**107500.000**	ug/l	1,075,000.00	0.9	450000	45	A	
31	**P**	1	**491.300**	ug/l	4,913.00	1.9	450000	45	P	
39	**K**	1	**522.600**	ug/l	5,226.00	0.5	450000	45	A	
44	**Ca**	1	**2968.000**	ug/l	29,680.00	1.0	450000	45	P	
47	**Ti**	1	**2892.000**	ug/l	28,920.00	1.0	4500	45	A	
51	**V**	1	**273.800**	ug/l	2,738.00	0.7	4500	74	A	
52	**Cr**	1	**44.570**	ug/l	445.70	0.8	4500	74	P	
55	**Mn**	1	**1533.000**	ug/l	15,330.00	1.4	4500	74	A	
56	**Fe**	1	**88600.000**	ug/l	886,000.00	1.2	450000	74	A	
59	**Co**	1	**31.090**	ug/l	310.90	1.2	4500	74	P	
60	**Ni**	1	**24.060**	ug/l	240.60	0.8	4500	74	P	
63	**Cu**	1	**117.400**	ug/l	1,174.00	1.0	4500	74	A	
66	**Zn**	1	**178.100**	ug/l	1,781.00	0.8	4500	74	P	
75	**As**	1	**4.262**	ug/l	42.62	4.1	4500	74	P	
78	**Se**	1	**1.385**	ug/l	13.85	6.4	4500	74	P	
88	**Sr**	1	**46.070**	ug/l	460.70	0.4	4500	103	P	
95	**Mo**	1	**12.850**	ug/l	128.50	1.9	4500	103	P	
109	**Ag**	1	**0.055**	ug/l	0.55	2.1	4500	103	P	
111	**Cd**	1	**0.602**	ug/l	6.02	8.9	4500	103	P	
118	**Sn**	1	**2.576**	ug/l	25.76	1.9	4500	103	P	
123	**Sb**	1	**0.282**	ug/l	2.82	5.9	4500	103	P	
135	**Ba**	1	**705.100**	ug/l	7,051.00	0.8	4500	103	P	
200	**Hg**	1	**0.075**	ug/l	0.75	8.5	45	209	P	
205	**Tl**	1	**0.301**	ug/l	3.01	3.9	4500	209	P	
208	**Pb**	1	**33.860**	ug/l	338.60	1.0	4500	209	P	
238	**U**	1	**1.614**	ug/l	16.14	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114775	1.27	96090	**119.4**	30	-	125	
45	Sc	1	2250097	0.64	1758000	**128.0**	30	-	125	**IS Fail**
74	Ge	1	4512909	0.75	4097000	**110.2**	30	-	125	
103	Rh	1	5930488	1.20	5915000	**100.3**	30	-	125	
165	Ho	1	2788520	1.20	2615000	**106.6**	30	-	125	
175	Lu	1	2323857	0.92	2149000	**108.1**	30	-	125	
209	Bi	1	2739976	0.71	2737000	**100.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\080SMPL.D\080SMPL.D#
Date Acquired: Aug 5 2011 02:12 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27715-B-2-B Vial Number: 3203
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.880**	ug/l	18.80	0.4	900	74	P	
23	**Na**	1	**358.000**	ug/l	3,580.00	1.0	450000	45	A	
24	**Mg**	1	**3624.000**	ug/l	36,240.00	2.0	450000	45	A	
27	**Al**	1	**81650.000**	ug/l	816,500.00	1.3	450000	45	A	
31	**P**	1	**910.400**	ug/l	9,104.00	1.7	450000	45	P	
39	**K**	1	**553.300**	ug/l	5,533.00	1.3	450000	45	A	
44	**Ca**	1	**10700.000**	ug/l	107,000.00	1.0	450000	45	A	
47	**Ti**	1	**2632.000**	ug/l	26,320.00	2.8	4500	45	A	
51	**V**	1	**388.600**	ug/l	3,886.00	1.1	4500	74	A	
52	**Cr**	1	**86.580**	ug/l	865.80	0.9	4500	74	A	
55	**Mn**	1	**2064.000**	ug/l	20,640.00	1.6	4500	74	A	
56	**Fe**	1	**115800.000**	ug/l	1,158,000.00	0.7	450000	74	A	
59	**Co**	1	**39.240**	ug/l	392.40	1.5	4500	74	P	
60	**Ni**	1	**105.700**	ug/l	1,057.00	1.7	4500	74	P	
63	**Cu**	1	**137.700**	ug/l	1,377.00	1.1	4500	74	A	
66	**Zn**	1	**296.200**	ug/l	2,962.00	2.4	4500	74	P	
75	**As**	1	**6.678**	ug/l	66.78	2.2	4500	74	P	
78	**Se**	1	**1.776**	ug/l	17.76	3.1	4500	74	P	
88	**Sr**	1	**60.880**	ug/l	608.80	0.9	4500	103	P	
95	**Mo**	1	**26.060**	ug/l	260.60	0.6	4500	103	P	
109	**Ag**	1	**0.088**	ug/l	0.88	8.5	4500	103	P	
111	**Cd**	1	**0.662**	ug/l	6.62	9.6	4500	103	P	
118	**Sn**	1	**3.051**	ug/l	30.51	3.5	4500	103	P	
123	**Sb**	1	**0.464**	ug/l	4.64	4.9	4500	103	P	
135	**Ba**	1	**778.900**	ug/l	7,789.00	0.6	4500	103	A	
200	**Hg**	1	**1.737**	ug/l	17.37	1.9	45	209	P	
205	**Tl**	1	**0.294**	ug/l	2.94	5.5	4500	209	P	
208	**Pb**	1	**57.590**	ug/l	575.90	1.8	4500	209	P	
238	**U**	1	**1.853**	ug/l	18.53	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114578	0.52	96090	**119.2**	30	-	125	
45	Sc	1	2212756	0.84	1758000	**125.9**	30	-	125	**IS Fail**
74	Ge	1	4447803	0.53	4097000	**108.6**	30	-	125	
103	Rh	1	5882960	0.19	5915000	**99.5**	30	-	125	
165	Ho	1	2794675	1.82	2615000	**106.9**	30	-	125	
175	Lu	1	2342020	0.47	2149000	**109.0**	30	-	125	
209	Bi	1	2735727	0.96	2737000	**100.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\081SMPL.D\081SMPL.D#
Date Acquired: Aug 5 2011 02:17 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27715-B-3-B Vial Number: 3204
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.104**	ug/l	11.04	2.1	900	74	P	
23	**Na**	1	**111.900**	ug/l	1,119.00	2.8	450000	45	P	
24	**Mg**	1	**940.400**	ug/l	9,404.00	3.5	450000	45	A	
27	**Al**	1	**108800.000**	ug/l	1,088,000.00	2.0	450000	45	A	
31	**P**	1	**334.100**	ug/l	3,341.00	3.5	450000	45	P	
39	**K**	1	**179.200**	ug/l	1,792.00	2.6	450000	45	P	
44	**Ca**	1	**925.100**	ug/l	9,251.00	1.4	450000	45	P	
47	**Ti**	1	**1979.000**	ug/l	19,790.00	2.2	4500	45	A	
51	**V**	1	**183.200**	ug/l	1,832.00	0.4	4500	74	A	
52	**Cr**	1	**21.300**	ug/l	213.00	0.2	4500	74	P	
55	**Mn**	1	**1190.000**	ug/l	11,900.00	0.2	4500	74	A	
56	**Fe**	1	**65080.000**	ug/l	650,800.00	1.3	450000	74	A	
59	**Co**	1	**21.400**	ug/l	214.00	0.9	4500	74	P	
60	**Ni**	1	**10.530**	ug/l	105.30	1.5	4500	74	P	
63	**Cu**	1	**71.910**	ug/l	719.10	0.9	4500	74	P	
66	**Zn**	1	**72.780**	ug/l	727.80	0.8	4500	74	P	
75	**As**	1	**1.878**	ug/l	18.78	2.3	4500	74	P	
78	**Se**	1	**1.028**	ug/l	10.28	5.5	4500	74	P	
88	**Sr**	1	**43.790**	ug/l	437.90	1.5	4500	103	P	
95	**Mo**	1	**0.856**	ug/l	8.56	2.9	4500	103	P	
109	**Ag**	1	**0.040**	ug/l	0.40	7.9	4500	103	P	
111	**Cd**	1	**0.359**	ug/l	3.59	1.8	4500	103	P	
118	**Sn**	1	**2.291**	ug/l	22.91	3.3	4500	103	P	
123	**Sb**	1	**0.125**	ug/l	1.25	13.5	4500	103	P	
135	**Ba**	1	**314.200**	ug/l	3,142.00	0.8	4500	103	P	
200	**Hg**	1	**0.030**	ug/l	0.30	23.7	45	209	P	
205	**Tl**	1	**0.247**	ug/l	2.47	13.7	4500	209	P	
208	**Pb**	1	**24.180**	ug/l	241.80	1.1	4500	209	P	
238	**U**	1	**1.196**	ug/l	11.96	3.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114711	0.49	96090	**119.4**	30	-	125	
45	Sc	1	2229570	1.70	1758000	**126.8**	30	-	125	**IS Fail**
74	Ge	1	4564505	0.80	4097000	**111.4**	30	-	125	
103	Rh	1	5943910	0.82	5915000	**100.5**	30	-	125	
165	Ho	1	2822337	0.53	2615000	**107.9**	30	-	125	
175	Lu	1	2321209	1.22	2149000	**108.0**	30	-	125	
209	Bi	1	2778033	1.17	2737000	**101.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\082SMPL.D\082SMPL.D#
Date Acquired: Aug 5 2011 02:22 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27514-A-4-A Vial Number: 3205
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.885**	ug/l	18.85	1.2	900	74	P	
23	**Na**	1	**576.800**	ug/l	5,768.00	1.3	450000	45	A	
24	**Mg**	1	**2217.000**	ug/l	22,170.00	0.8	450000	45	A	
27	**Al**	1	**107500.000**	ug/l	1,075,000.00	1.2	450000	45	A	
31	**P**	1	**620.700**	ug/l	6,207.00	1.8	450000	45	P	
39	**K**	1	**566.800**	ug/l	5,668.00	0.7	450000	45	A	
44	**Ca**	1	**4877.000**	ug/l	48,770.00	0.3	450000	45	P	
47	**Ti**	1	**3139.000**	ug/l	31,390.00	2.3	4500	45	A	
51	**V**	1	**270.900**	ug/l	2,709.00	0.8	4500	74	A	
52	**Cr**	1	**38.750**	ug/l	387.50	0.3	4500	74	P	
55	**Mn**	1	**1710.000**	ug/l	17,100.00	0.7	4500	74	A	
56	**Fe**	1	**86270.000**	ug/l	862,700.00	0.6	450000	74	A	
59	**Co**	1	**34.290**	ug/l	342.90	0.7	4500	74	P	
60	**Ni**	1	**20.150**	ug/l	201.50	0.4	4500	74	P	
63	**Cu**	1	**93.900**	ug/l	939.00	1.4	4500	74	A	
66	**Zn**	1	**145.700**	ug/l	1,457.00	0.8	4500	74	P	
75	**As**	1	**3.636**	ug/l	36.36	1.0	4500	74	P	
78	**Se**	1	**1.690**	ug/l	16.90	2.8	4500	74	P	
88	**Sr**	1	**70.690**	ug/l	706.90	0.4	4500	103	P	
95	**Mo**	1	**3.421**	ug/l	34.21	1.8	4500	103	P	
109	**Ag**	1	**0.057**	ug/l	0.57	8.4	4500	103	P	
111	**Cd**	1	**0.564**	ug/l	5.64	6.5	4500	103	P	
118	**Sn**	1	**2.426**	ug/l	24.26	2.3	4500	103	P	
123	**Sb**	1	**0.192**	ug/l	1.92	5.7	4500	103	P	
135	**Ba**	1	**596.800**	ug/l	5,968.00	1.0	4500	103	P	
200	**Hg**	1	**0.043**	ug/l	0.43	12.0	45	209	P	
205	**Tl**	1	**0.308**	ug/l	3.08	9.1	4500	209	P	
208	**Pb**	1	**26.920**	ug/l	269.20	0.9	4500	209	P	
238	**U**	1	**1.599**	ug/l	15.99	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	112138	0.64	96090	**116.7**	30 - 125	
45	Sc	1	2187635	0.67	1758000	**124.4**	30 - 125	
74	Ge	1	4454553	0.34	4097000	**108.7**	30 - 125	
103	Rh	1	5835791	0.52	5915000	**98.7**	30 - 125	
165	Ho	1	2778417	1.36	2615000	**106.2**	30 - 125	
175	Lu	1	2323196	0.86	2149000	**108.1**	30 - 125	
209	Bi	1	2716692	1.69	2737000	**99.3**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\083SMPL.D\083SMPL.D#
Date Acquired: Aug 5 2011 02:26 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27514-A-5-A Vial Number: 3206
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.669**	ug/l	16.69	1.0	900	74	P	
23	**Na**	1	**577.600**	ug/l	5,776.00	4.3	450000	45	A	
24	**Mg**	1	**8173.000**	ug/l	81,730.00	2.2	450000	45	A	
27	**Al**	1	**109300.000**	ug/l	1,093,000.00	2.9	450000	45	A	
31	**P**	1	**623.600**	ug/l	6,236.00	3.4	450000	45	P	
39	**K**	1	**570.800**	ug/l	5,708.00	2.0	450000	45	A	
44	**Ca**	1	**19210.000**	ug/l	192,100.00	1.8	450000	45	A	
47	**Ti**	1	**2373.000**	ug/l	23,730.00	1.9	4500	45	A	
51	**V**	1	**440.000**	ug/l	4,400.00	0.3	4500	74	A	
52	**Cr**	1	**50.900**	ug/l	509.00	1.2	4500	74	P	
55	**Mn**	1	**1658.000**	ug/l	16,580.00	0.7	4500	74	A	
56	**Fe**	1	**80680.000**	ug/l	806,800.00	1.2	450000	74	A	
59	**Co**	1	**32.830**	ug/l	328.30	1.1	4500	74	P	
60	**Ni**	1	**39.080**	ug/l	390.80	1.3	4500	74	P	
63	**Cu**	1	**128.300**	ug/l	1,283.00	0.4	4500	74	A	
66	**Zn**	1	**215.800**	ug/l	2,158.00	1.1	4500	74	P	
75	**As**	1	**5.004**	ug/l	50.04	1.5	4500	74	P	
78	**Se**	1	**1.917**	ug/l	19.17	4.6	4500	74	P	
88	**Sr**	1	**103.600**	ug/l	1,036.00	2.7	4500	103	A	
95	**Mo**	1	**13.980**	ug/l	139.80	1.9	4500	103	P	
109	**Ag**	1	**0.061**	ug/l	0.61	9.9	4500	103	P	
111	**Cd**	1	**0.707**	ug/l	7.07	14.7	4500	103	P	
118	**Sn**	1	**2.638**	ug/l	26.38	1.4	4500	103	P	
123	**Sb**	1	**0.313**	ug/l	3.13	6.7	4500	103	P	
135	**Ba**	1	**720.200**	ug/l	7,202.00	1.4	4500	103	P	
200	**Hg**	1	**0.252**	ug/l	2.52	2.8	45	209	P	
205	**Tl**	1	**0.415**	ug/l	4.15	6.7	4500	209	P	
208	**Pb**	1	**60.140**	ug/l	601.40	0.8	4500	209	M	
238	**U**	1	**1.658**	ug/l	16.58	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	111328	0.39	96090	**115.9**	30	-	125	
45	Sc	1	2203838	2.01	1758000	**125.4**	30	-	125	**IS Fail**
74	Ge	1	4510243	0.81	4097000	**110.1**	30	-	125	
103	Rh	1	5848723	0.43	5915000	**98.9**	30	-	125	
165	Ho	1	2799019	1.62	2615000	**107.0**	30	-	125	
175	Lu	1	2336676	2.13	2149000	**108.7**	30	-	125	
209	Bi	1	2724469	2.01	2737000	**99.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\084SMPL.D\084SMPL.D#
Date Acquired: Aug 5 2011 02:31 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**49.630**	ug/l	49.63	0.5	900	74	P	
23	**Na**	1	**4910.000**	ug/l	4,910.00	1.5	450000	45	A	
24	**Mg**	1	**4979.000**	ug/l	4,979.00	1.9	450000	45	A	
27	**Al**	1	**523.700**	ug/l	523.70	1.2	450000	45	P	
31	**P**	1	**5123.000**	ug/l	5,123.00	1.4	450000	45	P	
39	**K**	1	**5194.000**	ug/l	5,194.00	1.1	450000	45	A	
44	**Ca**	1	**5011.000**	ug/l	5,011.00	0.9	450000	45	P	
47	**Ti**	1	**48.810**	ug/l	48.81	0.9	4500	45	P	
51	**V**	1	**49.460**	ug/l	49.46	1.3	4500	74	P	
52	**Cr**	1	**48.600**	ug/l	48.60	1.3	4500	74	P	
55	**Mn**	1	**50.050**	ug/l	50.05	1.2	4500	74	P	
56	**Fe**	1	**4930.000**	ug/l	4,930.00	0.9	450000	74	A	
59	**Co**	1	**48.320**	ug/l	48.32	0.5	4500	74	P	
60	**Ni**	1	**47.710**	ug/l	47.71	0.7	4500	74	P	
63	**Cu**	1	**47.760**	ug/l	47.76	0.5	4500	74	P	
66	**Zn**	1	**46.750**	ug/l	46.75	0.8	4500	74	P	
75	**As**	1	**48.510**	ug/l	48.51	0.2	4500	74	P	
78	**Se**	1	**50.120**	ug/l	50.12	1.0	4500	74	P	
88	**Sr**	1	**50.900**	ug/l	50.90	1.0	4500	103	P	
95	**Mo**	1	**48.130**	ug/l	48.13	0.2	4500	103	P	
109	**Ag**	1	**47.950**	ug/l	47.95	0.4	4500	103	P	
111	**Cd**	1	**48.520**	ug/l	48.52	0.6	4500	103	P	
118	**Sn**	1	**49.300**	ug/l	49.30	1.0	4500	103	P	
123	**Sb**	1	**48.890**	ug/l	48.89	1.2	4500	103	P	
135	**Ba**	1	**49.420**	ug/l	49.42	0.9	4500	103	P	
200	**Hg**	1	**2.294**	ug/l	2.29	0.9	45	209	P	
205	**Tl**	1	**45.510**	ug/l	45.51	3.6	4500	209	A	
208	**Pb**	1	**48.340**	ug/l	48.34	0.3	4500	209	P	
238	**U**	1	**46.730**	ug/l	46.73	0.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114405	0.96	96090	**119.1**	30	-	125	
45	Sc	1	2136209	1.22	1758000	**121.5**	30	-	125	
74	Ge	1	4706129	0.85	4097000	**114.9**	30	-	125	
103	Rh	1	6333567	1.64	5915000	**107.1**	30	-	125	
165	Ho	1	2837657	0.31	2615000	**108.5**	30	-	125	
175	Lu	1	2393579	0.58	2149000	**111.4**	30	-	125	
209	Bi	1	2902261	0.53	2737000	**106.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\085SMPL.D\085SMPL.D#
Date Acquired: Aug 5 2011 02:36 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.001**	ug/l	0.00	366.8	900	74	P	
23	**Na**	1	**-24.160**	ug/l	-24.16	9.0	450000	45	P	
24	**Mg**	1	**0.401**	ug/l	0.40	8.3	450000	45	P	
27	**Al**	1	**0.031**	ug/l	0.03	637.9	450000	45	P	
31	**P**	1	**1.419**	ug/l	1.42	92.9	450000	45	P	
39	**K**	1	**2.069**	ug/l	2.07	145.9	450000	45	P	
44	**Ca**	1	**-1.015**	ug/l	-1.02	34.2	450000	45	P	
47	**Ti**	1	**0.229**	ug/l	0.23	6.8	4500	45	P	
51	**V**	1	**0.088**	ug/l	0.09	29.2	4500	74	P	
52	**Cr**	1	**0.016**	ug/l	0.02	54.8	4500	74	P	
55	**Mn**	1	**0.011**	ug/l	0.01	12.7	4500	74	P	
56	**Fe**	1	**3.502**	ug/l	3.50	4.3	450000	74	P	
59	**Co**	1	**-0.001**	ug/l	0.00	32.3	4500	74	P	
60	**Ni**	1	**0.003**	ug/l	0.00	121.3	4500	74	P	
63	**Cu**	1	**-0.006**	ug/l	-0.01	106.7	4500	74	P	
66	**Zn**	1	**-0.024**	ug/l	-0.02	87.5	4500	74	P	
75	**As**	1	**0.042**	ug/l	0.04	8.7	4500	74	P	
78	**Se**	1	**0.177**	ug/l	0.18	13.8	4500	74	P	
88	**Sr**	1	**0.017**	ug/l	0.02	49.2	4500	103	P	
95	**Mo**	1	**0.036**	ug/l	0.04	47.4	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	0.00	72.1	4500	103	P	
111	**Cd**	1	**-0.001**	ug/l	0.00	915.4	4500	103	P	
118	**Sn**	1	**0.150**	ug/l	0.15	39.6	4500	103	P	
123	**Sb**	1	**0.023**	ug/l	0.02	45.0	4500	103	P	
135	**Ba**	1	**0.012**	ug/l	0.01	101.3	4500	103	P	
200	**Hg**	1	**0.007**	ug/l	0.01	13.1	45	209	P	
205	**Tl**	1	**0.201**	ug/l	0.20	8.6	4500	209	P	
208	**Pb**	1	**-0.010**	ug/l	-0.01	52.9	4500	209	P	
238	**U**	1	**0.003**	ug/l	0.00	53.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114752	1.15	96090	**119.4**	30	-	125	
45	Sc	1	2151511	2.89	1758000	**122.4**	30	-	125	
74	Ge	1	4737268	0.82	4097000	**115.6**	30	-	125	
103	Rh	1	6508665	0.43	5915000	**110.0**	30	-	125	
165	Ho	1	2856030	0.72	2615000	**109.2**	30	-	125	
175	Lu	1	2432829	0.61	2149000	**113.2**	30	-	125	
209	Bi	1	2986072	1.09	2737000	**109.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\093SMPL.D\093SMPL.D#
Date Acquired: Aug 5 2011 03:14 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**47.620**	ug/l	47.62	1.2	900	74	P	
23	**Na**	1	**4872.000**	ug/l	4,872.00	1.3	450000	45	A	
24	**Mg**	1	**4872.000**	ug/l	4,872.00	2.3	450000	45	A	
27	**Al**	1	**513.900**	ug/l	513.90	2.0	450000	45	P	
31	**P**	1	**5072.000**	ug/l	5,072.00	2.0	450000	45	P	
39	**K**	1	**5081.000**	ug/l	5,081.00	1.5	450000	45	A	
44	**Ca**	1	**4981.000**	ug/l	4,981.00	1.3	450000	45	P	
47	**Ti**	1	**48.510**	ug/l	48.51	0.7	4500	45	P	
51	**V**	1	**48.520**	ug/l	48.52	0.3	4500	74	P	
52	**Cr**	1	**47.670**	ug/l	47.67	0.7	4500	74	P	
55	**Mn**	1	**48.940**	ug/l	48.94	0.8	4500	74	P	
56	**Fe**	1	**4819.000**	ug/l	4,819.00	1.4	450000	74	A	
59	**Co**	1	**47.550**	ug/l	47.55	0.7	4500	74	P	
60	**Ni**	1	**46.730**	ug/l	46.73	1.3	4500	74	P	
63	**Cu**	1	**46.450**	ug/l	46.45	1.7	4500	74	P	
66	**Zn**	1	**45.750**	ug/l	45.75	0.5	4500	74	P	
75	**As**	1	**48.160**	ug/l	48.16	0.7	4500	74	P	
78	**Se**	1	**49.340**	ug/l	49.34	0.6	4500	74	P	
88	**Sr**	1	**51.740**	ug/l	51.74	1.0	4500	103	P	
95	**Mo**	1	**48.090**	ug/l	48.09	0.1	4500	103	P	
109	**Ag**	1	**48.510**	ug/l	48.51	0.4	4500	103	P	
111	**Cd**	1	**49.260**	ug/l	49.26	1.1	4500	103	P	
118	**Sn**	1	**49.560**	ug/l	49.56	1.0	4500	103	P	
123	**Sb**	1	**49.630**	ug/l	49.63	1.3	4500	103	P	
135	**Ba**	1	**49.760**	ug/l	49.76	2.2	4500	103	P	
200	**Hg**	1	**2.313**	ug/l	2.31	2.9	45	209	P	
205	**Tl**	1	**44.630**	ug/l	44.63	2.9	4500	209	A	
208	**Pb**	1	**48.160**	ug/l	48.16	0.6	4500	209	P	
238	**U**	1	**46.770**	ug/l	46.77	0.9	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	111163	0.68	96090	**115.7**	30	-	125	
45	Sc	1	2144534	2.14	1758000	**122.0**	30	-	125	
74	Ge	1	4772708	0.73	4097000	**116.5**	30	-	125	
103	Rh	1	6285285	0.78	5915000	**106.3**	30	-	125	
165	Ho	1	2861752	0.82	2615000	**109.4**	30	-	125	
175	Lu	1	2439234	2.50	2149000	**113.5**	30	-	125	
209	Bi	1	2927050	0.21	2737000	**106.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\094SMPL.D\094SMPL.D#
Date Acquired: Aug 5 2011 03:19 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.002**	ug/l	0.00	146.5	900	74	P	
23	**Na**	1	**-23.670**	ug/l	-23.67	7.3	450000	45	P	
24	**Mg**	1	**0.603**	ug/l	0.60	15.3	450000	45	P	
27	**Al**	1	**-0.016**	ug/l	-0.02	868.7	450000	45	P	
31	**P**	1	**0.944**	ug/l	0.94	153.8	450000	45	P	
39	**K**	1	**1.736**	ug/l	1.74	70.2	450000	45	P	
44	**Ca**	1	**-0.984**	ug/l	-0.98	58.2	450000	45	P	
47	**Ti**	1	**0.044**	ug/l	0.04	37.0	4500	45	P	
51	**V**	1	**0.230**	ug/l	0.23	2.5	4500	74	P	
52	**Cr**	1	**0.026**	ug/l	0.03	52.7	4500	74	P	
55	**Mn**	1	**0.012**	ug/l	0.01	50.7	4500	74	P	
56	**Fe**	1	**1.600**	ug/l	1.60	9.3	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	611.2	4500	74	P	
60	**Ni**	1	**0.018**	ug/l	0.02	22.9	4500	74	P	
63	**Cu**	1	**-0.013**	ug/l	-0.01	32.8	4500	74	P	
66	**Zn**	1	**-0.004**	ug/l	0.00	844.8	4500	74	P	
75	**As**	1	**0.049**	ug/l	0.05	16.3	4500	74	P	
78	**Se**	1	**0.168**	ug/l	0.17	22.3	4500	74	P	
88	**Sr**	1	**0.022**	ug/l	0.02	15.0	4500	103	P	
95	**Mo**	1	**0.028**	ug/l	0.03	24.5	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	0.00	60.2	4500	103	P	
111	**Cd**	1	**-0.001**	ug/l	0.00	44.3	4500	103	P	
118	**Sn**	1	**0.156**	ug/l	0.16	7.7	4500	103	P	
123	**Sb**	1	**0.021**	ug/l	0.02	39.5	4500	103	P	
135	**Ba**	1	**0.009**	ug/l	0.01	39.2	4500	103	P	
200	**Hg**	1	**0.008**	ug/l	0.01	24.6	45	209	P	
205	**Tl**	1	**0.184**	ug/l	0.18	7.6	4500	209	P	
208	**Pb**	1	**0.001**	ug/l	0.00	1622.8	4500	209	P	
238	**U**	1	**0.008**	ug/l	0.01	6.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114521	1.68	96090	**119.2**	30	-	125	
45	Sc	1	2139362	1.30	1758000	**121.7**	30	-	125	
74	Ge	1	4773808	0.96	4097000	**116.5**	30	-	125	
103	Rh	1	6530438	1.03	5915000	**110.4**	30	-	125	
165	Ho	1	2890026	0.90	2615000	**110.5**	30	-	125	
175	Lu	1	2467730	1.07	2149000	**114.8**	30	-	125	
209	Bi	1	3004159	0.85	2737000	**109.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\095SMPL.D\095SMPL.D#
Date Acquired: Aug 5 2011 03:24 pm Acq. Method: 00He_ALL.M
Sample Name: MB 580-92145/18-A Vial Number: 4201
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.003**	ug/l	0.03	181.0	900	74	P	
23	**Na**	1	**-29.980**	ug/l	-299.80	0.7	450000	45	P	
24	**Mg**	1	**0.458**	ug/l	4.58	10.3	450000	45	P	
27	**Al**	1	**-1.009**	ug/l	-10.09	17.1	450000	45	P	
31	**P**	1	**1.375**	ug/l	13.75	71.1	450000	45	P	
39	**K**	1	**1.261**	ug/l	12.61	51.6	450000	45	P	
44	**Ca**	1	**-2.333**	ug/l	-23.33	11.5	450000	45	P	
47	**Ti**	1	**0.030**	ug/l	0.30	35.4	4500	45	P	
51	**V**	1	**-0.196**	ug/l	-1.96	8.0	4500	74	P	
52	**Cr**	1	**-0.033**	ug/l	-0.33	24.9	4500	74	P	
55	**Mn**	1	**-0.008**	ug/l	-0.08	66.6	4500	74	P	
56	**Fe**	1	**3.215**	ug/l	32.15	1.3	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	257.6	4500	74	P	
60	**Ni**	1	**0.027**	ug/l	0.27	26.1	4500	74	P	
63	**Cu**	1	**-0.021**	ug/l	-0.21	26.1	4500	74	P	
66	**Zn**	1	**-0.433**	ug/l	-4.33	2.4	4500	74	P	
75	**As**	1	**-0.022**	ug/l	-0.22	29.9	4500	74	P	
78	**Se**	1	**0.222**	ug/l	2.22	40.5	4500	74	P	
88	**Sr**	1	**0.005**	ug/l	0.05	99.2	4500	103	P	
95	**Mo**	1	**0.011**	ug/l	0.11	84.6	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	-0.03	0.8	4500	103	P	
111	**Cd**	1	**0.002**	ug/l	0.02	147.0	4500	103	P	
118	**Sn**	1	**0.051**	ug/l	0.51	23.5	4500	103	P	
123	**Sb**	1	**0.007**	ug/l	0.07	50.3	4500	103	P	
135	**Ba**	1	**0.002**	ug/l	0.02	386.9	4500	103	P	
200	**Hg**	1	**0.002**	ug/l	0.02	152.0	45	209	P	
205	**Tl**	1	**0.080**	ug/l	0.80	4.4	4500	209	P	
208	**Pb**	1	**-0.012**	ug/l	-0.12	97.0	4500	209	P	
238	**U**	1	**0.000**	ug/l	0.00	753.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	117435	1.27	96090	**122.2**	30	-	125	
45	Sc	1	2220103	0.59	1758000	**126.3**	30	-	125	**IS Fail**
74	Ge	1	4855100	0.56	4097000	**118.5**	30	-	125	
103	Rh	1	6582216	0.76	5915000	**111.3**	30	-	125	
165	Ho	1	2903314	0.61	2615000	**111.0**	30	-	125	
175	Lu	1	2472106	0.66	2149000	**115.0**	30	-	125	
209	Bi	1	2971646	1.12	2737000	**108.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\096SMPL.D\096SMPL.D#
Date Acquired: Aug 5 2011 03:29 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-2-M SD Vial Number: 4202
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.051**	ug/l	2.55	15.0	900	74	P	
23	**Na**	1	**12.380**	ug/l	619.00	10.6	450000	45	P	
24	**Mg**	1	**1142.000**	ug/l	57,100.00	2.1	450000	45	A	
27	**Al**	1	**1610.000**	ug/l	80,500.00	2.5	450000	45	A	
31	**P**	1	**163.200**	ug/l	8,160.00	0.4	450000	45	P	
39	**K**	1	**179.600**	ug/l	8,980.00	0.9	450000	45	P	
44	**Ca**	1	**702.300**	ug/l	35,115.00	0.4	450000	45	P	
47	**Ti**	1	**62.790**	ug/l	3,139.50	1.3	4500	45	P	
51	**V**	1	**6.606**	ug/l	330.30	1.4	4500	74	P	
52	**Cr**	1	**3.284**	ug/l	164.20	2.0	4500	74	P	
55	**Mn**	1	**58.890**	ug/l	2,944.50	1.9	4500	74	P	
56	**Fe**	1	**4149.000**	ug/l	207,450.00	0.7	450000	74	A	
59	**Co**	1	**2.064**	ug/l	103.20	3.2	4500	74	P	
60	**Ni**	1	**4.856**	ug/l	242.80	1.1	4500	74	P	
63	**Cu**	1	**5.241**	ug/l	262.05	2.7	4500	74	P	
66	**Zn**	1	**8.733**	ug/l	436.65	3.0	4500	74	P	
75	**As**	1	**2.371**	ug/l	118.55	5.1	4500	74	P	
78	**Se**	1	**0.240**	ug/l	11.98	27.5	4500	74	P	
88	**Sr**	1	**4.297**	ug/l	214.85	1.9	4500	103	P	
95	**Mo**	1	**0.116**	ug/l	5.79	11.2	4500	103	P	
109	**Ag**	1	**0.006**	ug/l	0.29	41.9	4500	103	P	
111	**Cd**	1	**0.037**	ug/l	1.84	27.8	4500	103	P	
118	**Sn**	1	**0.059**	ug/l	2.97	22.6	4500	103	P	
123	**Sb**	1	**0.060**	ug/l	3.01	7.7	4500	103	P	
135	**Ba**	1	**18.570**	ug/l	928.50	2.0	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.29	40.3	45	209	P	
205	**Tl**	1	**0.065**	ug/l	3.26	10.2	4500	209	P	
208	**Pb**	1	**1.591**	ug/l	79.55	4.3	4500	209	P	
238	**U**	1	**0.145**	ug/l	7.24	5.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	117236	1.54	96090	**122.0**	30	-	125	
45	Sc	1	2286266	0.42	1758000	**130.0**	30	-	125	**IS Fail**
74	Ge	1	4897463	1.09	4097000	**119.5**	30	-	125	
103	Rh	1	6512303	1.47	5915000	**110.1**	30	-	125	
165	Ho	1	2881570	0.86	2615000	**110.2**	30	-	125	
175	Lu	1	2474753	0.55	2149000	**115.2**	30	-	125	
209	Bi	1	2925798	1.58	2737000	**106.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\097SMPL.D\097SMPL.D#
Date Acquired: Aug 5 2011 03:33 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-2-M Vial Number: 4203
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.164**	ug/l	1.64	13.0	900	74	P	
23	**Na**	1	**178.400**	ug/l	1,784.00	1.9	450000	45	P	
24	**Mg**	1	**5263.000**	ug/l	52,630.00	2.6	450000	45	A	
27	**Al**	1	**7320.000**	ug/l	73,200.00	0.8	450000	45	A	
31	**P**	1	**780.900**	ug/l	7,809.00	0.9	450000	45	P	
39	**K**	1	**855.500**	ug/l	8,555.00	3.6	450000	45	A	
44	**Ca**	1	**3318.000**	ug/l	33,180.00	0.8	450000	45	P	
47	**Ti**	1	**299.100**	ug/l	2,991.00	1.0	4500	45	P	
51	**V**	1	**32.190**	ug/l	321.90	1.3	4500	74	P	
52	**Cr**	1	**15.760**	ug/l	157.60	1.7	4500	74	P	
55	**Mn**	1	**267.500**	ug/l	2,675.00	2.5	4500	74	A	
56	**Fe**	1	**19400.000**	ug/l	194,000.00	2.2	450000	74	A	
59	**Co**	1	**9.375**	ug/l	93.75	1.9	4500	74	P	
60	**Ni**	1	**22.910**	ug/l	229.10	1.9	4500	74	P	
63	**Cu**	1	**23.970**	ug/l	239.70	0.7	4500	74	P	
66	**Zn**	1	**42.120**	ug/l	421.20	1.2	4500	74	P	
75	**As**	1	**11.010**	ug/l	110.10	0.9	4500	74	P	
78	**Se**	1	**0.649**	ug/l	6.49	7.1	4500	74	P	
88	**Sr**	1	**20.080**	ug/l	200.80	1.5	4500	103	P	
95	**Mo**	1	**0.532**	ug/l	5.32	4.1	4500	103	P	
109	**Ag**	1	**0.056**	ug/l	0.56	11.3	4500	103	P	
111	**Cd**	1	**0.170**	ug/l	1.70	14.2	4500	103	P	
118	**Sn**	1	**0.206**	ug/l	2.06	5.7	4500	103	P	
123	**Sb**	1	**0.308**	ug/l	3.08	0.7	4500	103	P	
135	**Ba**	1	**86.340**	ug/l	863.40	0.7	4500	103	P	
200	**Hg**	1	**0.020**	ug/l	0.20	24.8	45	209	P	
205	**Tl**	1	**0.091**	ug/l	0.91	3.7	4500	209	P	
208	**Pb**	1	**7.399**	ug/l	73.99	1.4	4500	209	P	
238	**U**	1	**0.695**	ug/l	6.95	1.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115608	0.32	96090	**120.3**	30	-	125	
45	Sc	1	2195862	0.51	1758000	**124.9**	30	-	125	
74	Ge	1	4765209	1.33	4097000	**116.3**	30	-	125	
103	Rh	1	6354295	0.25	5915000	**107.4**	30	-	125	
165	Ho	1	2848233	0.94	2615000	**108.9**	30	-	125	
175	Lu	1	2427832	0.82	2149000	**113.0**	30	-	125	
209	Bi	1	2865116	1.18	2737000	**104.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\098SMPL.D\098SMPL.D#
Date Acquired: Aug 5 2011 03:38 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-2-N DU Vial Number: 4204
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.160**	ug/l	1.60	12.5	900	74	P	
23	**Na**	1	**158.100**	ug/l	1,581.00	3.3	450000	45	P	
24	**Mg**	1	**5380.000**	ug/l	53,800.00	1.4	450000	45	A	
27	**Al**	1	**7296.000**	ug/l	72,960.00	0.5	450000	45	A	
31	**P**	1	**827.700**	ug/l	8,277.00	0.9	450000	45	P	
39	**K**	1	**807.800**	ug/l	8,078.00	1.9	450000	45	A	
44	**Ca**	1	**3314.000**	ug/l	33,140.00	0.4	450000	45	P	
47	**Ti**	1	**285.200**	ug/l	2,852.00	1.2	4500	45	P	
51	**V**	1	**32.750**	ug/l	327.50	0.9	4500	74	P	
52	**Cr**	1	**16.230**	ug/l	162.30	0.4	4500	74	P	
55	**Mn**	1	**264.700**	ug/l	2,647.00	0.9	4500	74	A	
56	**Fe**	1	**19650.000**	ug/l	196,500.00	0.8	450000	74	A	
59	**Co**	1	**9.546**	ug/l	95.46	1.0	4500	74	P	
60	**Ni**	1	**23.070**	ug/l	230.70	1.8	4500	74	P	
63	**Cu**	1	**23.840**	ug/l	238.40	1.1	4500	74	P	
66	**Zn**	1	**41.780**	ug/l	417.80	2.1	4500	74	P	
75	**As**	1	**10.470**	ug/l	104.70	1.2	4500	74	P	
78	**Se**	1	**0.637**	ug/l	6.37	9.4	4500	74	P	
88	**Sr**	1	**20.010**	ug/l	200.10	1.0	4500	103	P	
95	**Mo**	1	**0.566**	ug/l	5.66	1.2	4500	103	P	
109	**Ag**	1	**0.051**	ug/l	0.51	11.1	4500	103	P	
111	**Cd**	1	**0.170**	ug/l	1.70	7.7	4500	103	P	
118	**Sn**	1	**0.175**	ug/l	1.75	0.9	4500	103	P	
123	**Sb**	1	**0.324**	ug/l	3.24	2.4	4500	103	P	
135	**Ba**	1	**77.300**	ug/l	773.00	2.3	4500	103	P	
200	**Hg**	1	**0.026**	ug/l	0.26	6.3	45	209	P	
205	**Tl**	1	**0.086**	ug/l	0.86	5.9	4500	209	P	
208	**Pb**	1	**7.419**	ug/l	74.19	1.2	4500	209	P	
238	**U**	1	**0.783**	ug/l	7.83	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115957	0.37	96090	**120.7**	30	-	125	
45	Sc	1	2208561	0.40	1758000	**125.6**	30	-	125	**IS Fail**
74	Ge	1	4787879	1.33	4097000	**116.9**	30	-	125	
103	Rh	1	6272686	1.01	5915000	**106.0**	30	-	125	
165	Ho	1	2866149	1.81	2615000	**109.6**	30	-	125	
175	Lu	1	2419395	1.85	2149000	**112.6**	30	-	125	
209	Bi	1	2859033	0.57	2737000	**104.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\099SMPL.D\099SMPL.D#
Date Acquired: Aug 5 2011 03:43 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-2-O MS Vial Number: 4205
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.466**	ug/l	123.30	1.1	900	74	P	
23	**Na**	1	**516.600**	ug/l	25,830.00	4.1	450000	45	A	
24	**Mg**	1	**1827.000**	ug/l	91,350.00	3.4	450000	45	A	
27	**Al**	1	**2119.000**	ug/l	105,950.00	0.8	450000	45	A	
31	**P**	1	**650.400**	ug/l	32,520.00	2.4	450000	45	P	
39	**K**	1	**706.700**	ug/l	35,335.00	1.8	450000	45	A	
44	**Ca**	1	**1294.000**	ug/l	64,700.00	1.8	450000	45	P	
47	**Ti**	1	**183.600**	ug/l	9,180.00	2.2	4500	45	P	
51	**V**	1	**31.230**	ug/l	1,561.50	1.6	4500	74	P	
52	**Cr**	1	**13.470**	ug/l	673.50	1.6	4500	74	P	
55	**Mn**	1	**91.610**	ug/l	4,580.50	1.9	4500	74	P	
56	**Fe**	1	**5096.000**	ug/l	254,800.00	1.6	450000	74	A	
59	**Co**	1	**25.850**	ug/l	1,292.50	2.6	4500	74	P	
60	**Ni**	1	**29.540**	ug/l	1,477.00	2.1	4500	74	P	
63	**Cu**	1	**17.270**	ug/l	863.50	1.7	4500	74	P	
66	**Zn**	1	**32.450**	ug/l	1,622.50	1.4	4500	74	P	
75	**As**	1	**96.870**	ug/l	4,843.50	2.2	4500	74	P	
78	**Se**	1	**96.630**	ug/l	4,831.50	1.6	4500	74	P	
88	**Sr**	1	**5.226**	ug/l	261.30	3.2	4500	103	P	
95	**Mo**	1	**110.800**	ug/l	5,540.00	2.4	4500	103	P	
109	**Ag**	1	**13.700**	ug/l	685.00	3.4	4500	103	P	
111	**Cd**	1	**2.343**	ug/l	117.15	3.7	4500	103	P	
118	**Sn**	1	**114.700**	ug/l	5,735.00	2.1	4500	103	P	
123	**Sb**	1	**50.590**	ug/l	2,529.50	2.1	4500	103	P	
135	**Ba**	1	**114.300**	ug/l	5,715.00	1.6	4500	103	P	
200	**Hg**	1	**1.108**	ug/l	55.40	4.5	45	209	P	
205	**Tl**	1	**95.700**	ug/l	4,785.00	2.0	4500	209	A	
208	**Pb**	1	**25.430**	ug/l	1,271.50	2.8	4500	209	P	
238	**U**	1	**0.126**	ug/l	6.28	3.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	116721	1.75	96090	**121.5**	30	-	125	
45	Sc	1	2199419	2.06	1758000	**125.1**	30	-	125	**IS Fail**
74	Ge	1	4786724	1.08	4097000	**116.8**	30	-	125	
103	Rh	1	6500208	1.08	5915000	**109.9**	30	-	125	
165	Ho	1	2883383	2.08	2615000	**110.3**	30	-	125	
175	Lu	1	2438629	2.68	2149000	**113.5**	30	-	125	
209	Bi	1	2936003	1.73	2737000	**107.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\100SMPL.D\100SMPL.D#
Date Acquired: Aug 5 2011 03:48 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-2-P MSD Vial Number: 4206
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.529**	ug/l	126.45	2.0	900	74	P	
23	**Na**	1	**524.800**	ug/l	26,240.00	0.3	450000	45	A	
24	**Mg**	1	**1944.000**	ug/l	97,200.00	1.4	450000	45	A	
27	**Al**	1	**2257.000**	ug/l	112,850.00	1.2	450000	45	A	
31	**P**	1	**730.500**	ug/l	36,525.00	1.7	450000	45	P	
39	**K**	1	**737.700**	ug/l	36,885.00	1.3	450000	45	A	
44	**Ca**	1	**1474.000**	ug/l	73,700.00	1.2	450000	45	P	
47	**Ti**	1	**188.000**	ug/l	9,400.00	1.4	4500	45	P	
51	**V**	1	**32.000**	ug/l	1,600.00	0.9	4500	74	P	
52	**Cr**	1	**13.800**	ug/l	690.00	2.2	4500	74	P	
55	**Mn**	1	**94.020**	ug/l	4,701.00	1.0	4500	74	P	
56	**Fe**	1	**5388.000**	ug/l	269,400.00	2.5	450000	74	A	
59	**Co**	1	**26.260**	ug/l	1,313.00	1.2	4500	74	P	
60	**Ni**	1	**29.550**	ug/l	1,477.50	1.1	4500	74	P	
63	**Cu**	1	**17.610**	ug/l	880.50	1.0	4500	74	P	
66	**Zn**	1	**33.080**	ug/l	1,654.00	0.9	4500	74	P	
75	**As**	1	**97.460**	ug/l	4,873.00	1.0	4500	74	P	
78	**Se**	1	**98.520**	ug/l	4,926.00	1.4	4500	74	P	
88	**Sr**	1	**6.255**	ug/l	312.75	2.3	4500	103	P	
95	**Mo**	1	**115.000**	ug/l	5,750.00	2.5	4500	103	P	
109	**Ag**	1	**14.350**	ug/l	717.50	2.2	4500	103	P	
111	**Cd**	1	**2.461**	ug/l	123.05	5.1	4500	103	P	
118	**Sn**	1	**119.200**	ug/l	5,960.00	2.9	4500	103	P	
123	**Sb**	1	**54.540**	ug/l	2,727.00	3.1	4500	103	P	
135	**Ba**	1	**121.200**	ug/l	6,060.00	1.9	4500	103	P	
200	**Hg**	1	**1.146**	ug/l	57.30	3.1	45	209	P	
205	**Tl**	1	**97.860**	ug/l	4,893.00	1.9	4500	209	A	
208	**Pb**	1	**25.800**	ug/l	1,290.00	2.5	4500	209	P	
238	**U**	1	**0.139**	ug/l	6.96	4.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	117522	2.01	96090	**122.3**	30	-	125	
45	Sc	1	2238766	0.92	1758000	**127.3**	30	-	125	**IS Fail**
74	Ge	1	4847313	0.45	4097000	**118.3**	30	-	125	
103	Rh	1	6486396	1.29	5915000	**109.7**	30	-	125	
165	Ho	1	2910902	1.01	2615000	**111.3**	30	-	125	
175	Lu	1	2466715	0.52	2149000	**114.8**	30	-	125	
209	Bi	1	2971077	1.69	2737000	**108.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\101SMPL.D\101SMPL.D#
Date Acquired: Aug 5 2011 03:52 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-2-M PDS Vial Number: 4207
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.657**	ug/l	132.85	1.8	900	74	P	
23	**Na**	1	**582.300**	ug/l	29,115.00	15.3	450000	45	A	
24	**Mg**	1	**1916.000**	ug/l	95,800.00	1.8	450000	45	A	
27	**Al**	1	**2191.000**	ug/l	109,550.00	1.0	450000	45	A	
31	**P**	1	**678.500**	ug/l	33,925.00	1.6	450000	45	P	
39	**K**	1	**741.400**	ug/l	37,070.00	2.7	450000	45	A	
44	**Ca**	1	**1350.000**	ug/l	67,500.00	1.2	450000	45	P	
47	**Ti**	1	**192.200**	ug/l	9,610.00	0.9	4500	45	P	
51	**V**	1	**32.850**	ug/l	1,642.50	0.2	4500	74	P	
52	**Cr**	1	**14.240**	ug/l	712.00	0.4	4500	74	P	
55	**Mn**	1	**96.310**	ug/l	4,815.50	0.9	4500	74	P	
56	**Fe**	1	**5382.000**	ug/l	269,100.00	0.9	450000	74	A	
59	**Co**	1	**27.110**	ug/l	1,355.50	0.5	4500	74	P	
60	**Ni**	1	**30.620**	ug/l	1,531.00	1.1	4500	74	P	
63	**Cu**	1	**18.180**	ug/l	909.00	0.9	4500	74	P	
66	**Zn**	1	**33.920**	ug/l	1,696.00	1.4	4500	74	P	
75	**As**	1	**101.600**	ug/l	5,080.00	1.1	4500	74	P	
78	**Se**	1	**102.900**	ug/l	5,145.00	1.1	4500	74	P	
88	**Sr**	1	**5.540**	ug/l	277.00	1.4	4500	103	P	
95	**Mo**	1	**118.700**	ug/l	5,935.00	1.1	4500	103	P	
109	**Ag**	1	**14.690**	ug/l	734.50	1.8	4500	103	P	
111	**Cd**	1	**2.513**	ug/l	125.65	2.5	4500	103	P	
118	**Sn**	1	**123.200**	ug/l	6,160.00	0.9	4500	103	P	
123	**Sb**	1	**54.370**	ug/l	2,718.50	0.9	4500	103	P	
135	**Ba**	1	**122.200**	ug/l	6,110.00	0.9	4500	103	P	
200	**Hg**	1	**1.178**	ug/l	58.90	0.4	45	209	P	
205	**Tl**	1	**101.200**	ug/l	5,060.00	1.1	4500	209	A	
208	**Pb**	1	**26.880**	ug/l	1,344.00	2.8	4500	209	P	
238	**U**	1	**0.137**	ug/l	6.84	7.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115887	1.23	96090	**120.6**	30	-	125	
45	Sc	1	2199653	1.62	1758000	**125.1**	30	-	125	**IS Fail**
74	Ge	1	4765975	0.73	4097000	**116.3**	30	-	125	
103	Rh	1	6378906	0.58	5915000	**107.8**	30	-	125	
165	Ho	1	2877535	0.83	2615000	**110.0**	30	-	125	
175	Lu	1	2418554	1.41	2149000	**112.5**	30	-	125	
209	Bi	1	2917267	1.66	2737000	**106.6**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\102SMPL.D\102SMPL.D#
Date Acquired: Aug 5 2011 03:57 pm Acq. Method: 00He_ALL.M
Sample Name: LCS 580-92145/19-A Vial Number: 4208
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.983**	ug/l	99.15	3.4	900	74	P	
23	**Na**	1	**380.500**	ug/l	19,025.00	2.9	450000	45	A	
24	**Mg**	1	**409.800**	ug/l	20,490.00	1.2	450000	45	P	
27	**Al**	1	**80.800**	ug/l	4,040.00	1.7	450000	45	P	
31	**P**	1	**388.800**	ug/l	19,440.00	1.3	450000	45	P	
39	**K**	1	**415.100**	ug/l	20,755.00	1.5	450000	45	A	
44	**Ca**	1	**390.700**	ug/l	19,535.00	0.7	450000	45	P	
47	**Ti**	1	**93.150**	ug/l	4,657.50	0.9	4500	45	P	
51	**V**	1	**19.770**	ug/l	988.50	0.9	4500	74	P	
52	**Cr**	1	**7.800**	ug/l	390.00	0.8	4500	74	P	
55	**Mn**	1	**19.820**	ug/l	991.00	1.5	4500	74	P	
56	**Fe**	1	**437.900**	ug/l	21,895.00	0.5	450000	74	A	
59	**Co**	1	**19.640**	ug/l	982.00	1.2	4500	74	P	
60	**Ni**	1	**19.220**	ug/l	961.00	0.4	4500	74	P	
63	**Cu**	1	**9.731**	ug/l	486.55	0.8	4500	74	P	
66	**Zn**	1	**18.750**	ug/l	937.50	1.2	4500	74	P	
75	**As**	1	**76.850**	ug/l	3,842.50	0.8	4500	74	P	
78	**Se**	1	**80.200**	ug/l	4,010.00	0.9	4500	74	P	
88	**Sr**	1	**0.003**	ug/l	0.15	124.1	4500	103	P	
95	**Mo**	1	**93.660**	ug/l	4,683.00	1.0	4500	103	P	
109	**Ag**	1	**11.760**	ug/l	588.00	2.2	4500	103	P	
111	**Cd**	1	**1.927**	ug/l	96.35	7.6	4500	103	P	
118	**Sn**	1	**100.600**	ug/l	5,030.00	0.6	4500	103	P	
123	**Sb**	1	**57.800**	ug/l	2,890.00	1.0	4500	103	P	
135	**Ba**	1	**78.960**	ug/l	3,948.00	0.7	4500	103	P	
200	**Hg**	1	**0.904**	ug/l	45.20	4.4	45	209	P	
205	**Tl**	1	**70.510**	ug/l	3,525.50	5.7	4500	209	A	
208	**Pb**	1	**19.260**	ug/l	963.00	2.1	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.11	14.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114088	0.09	96090	**118.7**	30	-	125	
45	Sc	1	2152119	1.00	1758000	**122.4**	30	-	125	
74	Ge	1	4690255	0.41	4097000	**114.5**	30	-	125	
103	Rh	1	6404235	0.92	5915000	**108.3**	30	-	125	
165	Ho	1	2871143	1.49	2615000	**109.8**	30	-	125	
175	Lu	1	2443427	1.36	2149000	**113.7**	30	-	125	
209	Bi	1	3018187	1.62	2737000	**110.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\103SMPL.D\103SMPL.D#
Date Acquired: Aug 5 2011 04:02 pm Acq. Method: 00He_ALL.M
Sample Name: LCSD 580-92145/20-A Vial Number: 4209
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**1.921**	ug/l	96.05	3.1	900	74	P	
23	**Na**	1	**380.000**	ug/l	19,000.00	2.9	450000	45	A	
24	**Mg**	1	**414.500**	ug/l	20,725.00	1.6	450000	45	P	
27	**Al**	1	**81.150**	ug/l	4,057.50	0.8	450000	45	P	
31	**P**	1	**389.400**	ug/l	19,470.00	0.8	450000	45	P	
39	**K**	1	**419.800**	ug/l	20,990.00	0.5	450000	45	M	
44	**Ca**	1	**395.900**	ug/l	19,795.00	1.3	450000	45	P	
47	**Ti**	1	**92.950**	ug/l	4,647.50	1.5	4500	45	P	
51	**V**	1	**19.660**	ug/l	983.00	1.3	4500	74	P	
52	**Cr**	1	**7.812**	ug/l	390.60	0.3	4500	74	P	
55	**Mn**	1	**19.890**	ug/l	994.50	1.7	4500	74	P	
56	**Fe**	1	**433.900**	ug/l	21,695.00	0.7	450000	74	A	
59	**Co**	1	**19.560**	ug/l	978.00	1.0	4500	74	P	
60	**Ni**	1	**19.390**	ug/l	969.50	1.5	4500	74	P	
63	**Cu**	1	**9.695**	ug/l	484.75	0.5	4500	74	P	
66	**Zn**	1	**18.590**	ug/l	929.50	0.2	4500	74	P	
75	**As**	1	**76.860**	ug/l	3,843.00	1.3	4500	74	P	
78	**Se**	1	**79.340**	ug/l	3,967.00	0.3	4500	74	P	
88	**Sr**	1	**0.010**	ug/l	0.51	57.8	4500	103	P	
95	**Mo**	1	**93.400**	ug/l	4,670.00	0.9	4500	103	P	
109	**Ag**	1	**11.650**	ug/l	582.50	0.9	4500	103	P	
111	**Cd**	1	**1.901**	ug/l	95.05	3.7	4500	103	P	
118	**Sn**	1	**99.520**	ug/l	4,976.00	0.5	4500	103	P	
123	**Sb**	1	**57.240**	ug/l	2,862.00	0.9	4500	103	P	
135	**Ba**	1	**78.080**	ug/l	3,904.00	1.2	4500	103	P	
200	**Hg**	1	**0.910**	ug/l	45.48	3.7	45	209	P	
205	**Tl**	1	**69.160**	ug/l	3,458.00	6.0	4500	209	A	
208	**Pb**	1	**19.290**	ug/l	964.50	1.9	4500	209	P	
238	**U**	1	**-0.002**	ug/l	-0.10	11.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	111190	1.50	96090	**115.7**	30	-	125	
45	Sc	1	2100313	0.65	1758000	**119.5**	30	-	125	
74	Ge	1	4617871	1.68	4097000	**112.7**	30	-	125	
103	Rh	1	6352111	0.38	5915000	**107.4**	30	-	125	
165	Ho	1	2878613	0.56	2615000	**110.1**	30	-	125	
175	Lu	1	2411524	1.73	2149000	**112.2**	30	-	125	
209	Bi	1	2980571	1.19	2737000	**108.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\104SMPL.D\104SMPL.D#
Date Acquired: Aug 5 2011 04:07 pm Acq. Method: 00He_ALL.M
Sample Name: LCSSRM 580-92145/21-A Vial Number: 4210
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**45.010**	ug/l	900.20	2.0	900	74	P	
23	**Na**	1	**355.900**	ug/l	7,118.00	0.5	450000	45	A	
24	**Mg**	1	**1500.000**	ug/l	30,000.00	1.7	450000	45	A	
27	**Al**	1	**4031.000**	ug/l	80,620.00	1.9	450000	45	A	
31	**P**	1	**264.000**	ug/l	5,280.00	0.7	450000	45	P	
39	**K**	1	**1365.000**	ug/l	27,300.00	0.7	450000	45	A	
44	**Ca**	1	**3462.000**	ug/l	69,240.00	1.2	450000	45	P	
47	**Ti**	1	**107.300**	ug/l	2,146.00	1.6	4500	45	P	
51	**V**	1	**57.070**	ug/l	1,141.40	2.6	4500	74	P	
52	**Cr**	1	**46.750**	ug/l	935.00	2.4	4500	74	P	
55	**Mn**	1	**235.500**	ug/l	4,710.00	2.0	4500	74	A	
56	**Fe**	1	**6945.000**	ug/l	138,900.00	2.5	450000	74	A	
59	**Co**	1	**70.780**	ug/l	1,415.60	2.0	4500	74	A	
60	**Ni**	1	**55.290**	ug/l	1,105.80	1.8	4500	74	P	
63	**Cu**	1	**35.430**	ug/l	708.60	2.1	4500	74	P	
66	**Zn**	1	**146.900**	ug/l	2,938.00	1.4	4500	74	P	
75	**As**	1	**54.750**	ug/l	1,095.00	1.3	4500	74	P	
78	**Se**	1	**111.300**	ug/l	2,226.00	2.0	4500	74	P	
88	**Sr**	1	**61.300**	ug/l	1,226.00	2.1	4500	103	P	
95	**Mo**	1	**45.760**	ug/l	915.20	0.4	4500	103	P	
109	**Ag**	1	**26.020**	ug/l	520.40	0.2	4500	103	P	
111	**Cd**	1	**57.500**	ug/l	1,150.00	1.4	4500	103	P	
118	**Sn**	1	**71.070**	ug/l	1,421.40	1.0	4500	103	P	
123	**Sb**	1	**112.800**	ug/l	2,256.00	0.7	4500	103	P	
135	**Ba**	1	**169.100**	ug/l	3,382.00	0.8	4500	103	P	
200	**Hg**	1	**7.921**	ug/l	158.42	2.1	45	209	P	
205	**Tl**	1	**83.740**	ug/l	1,674.80	4.6	4500	209	A	
208	**Pb**	1	**81.880**	ug/l	1,637.60	1.1	4500	209	A	
238	**U**	1	**0.517**	ug/l	10.34	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	111922	1.12	96090	**116.5**	30	-	125	
45	Sc	1	2130989	0.58	1758000	**121.2**	30	-	125	
74	Ge	1	4687387	1.59	4097000	**114.4**	30	-	125	
103	Rh	1	6250131	1.05	5915000	**105.7**	30	-	125	
165	Ho	1	2860697	1.00	2615000	**109.4**	30	-	125	
175	Lu	1	2407452	1.08	2149000	**112.0**	30	-	125	
209	Bi	1	2934747	1.07	2737000	**107.2**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\105SMPL.D\105SMPL.D#
Date Acquired: Aug 5 2011 04:12 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**48.700**	ug/l	48.70	0.8	900	74	P	
23	**Na**	1	**4816.000**	ug/l	4,816.00	1.0	450000	45	A	
24	**Mg**	1	**4878.000**	ug/l	4,878.00	1.4	450000	45	A	
27	**Al**	1	**512.100**	ug/l	512.10	1.3	450000	45	P	
31	**P**	1	**5029.000**	ug/l	5,029.00	1.6	450000	45	P	
39	**K**	1	**5100.000**	ug/l	5,100.00	1.3	450000	45	A	
44	**Ca**	1	**4929.000**	ug/l	4,929.00	1.3	450000	45	P	
47	**Ti**	1	**48.030**	ug/l	48.03	1.6	4500	45	P	
51	**V**	1	**48.800**	ug/l	48.80	1.6	4500	74	P	
52	**Cr**	1	**48.090**	ug/l	48.09	1.3	4500	74	P	
55	**Mn**	1	**49.230**	ug/l	49.23	1.5	4500	74	P	
56	**Fe**	1	**4860.000**	ug/l	4,860.00	1.0	450000	74	A	
59	**Co**	1	**47.760**	ug/l	47.76	1.0	4500	74	P	
60	**Ni**	1	**47.230**	ug/l	47.23	1.5	4500	74	P	
63	**Cu**	1	**46.720**	ug/l	46.72	1.4	4500	74	P	
66	**Zn**	1	**46.050**	ug/l	46.05	1.3	4500	74	P	
75	**As**	1	**47.800**	ug/l	47.80	1.2	4500	74	P	
78	**Se**	1	**50.120**	ug/l	50.12	1.7	4500	74	P	
88	**Sr**	1	**50.960**	ug/l	50.96	0.9	4500	103	P	
95	**Mo**	1	**47.590**	ug/l	47.59	1.1	4500	103	P	
109	**Ag**	1	**47.870**	ug/l	47.87	1.7	4500	103	P	
111	**Cd**	1	**48.650**	ug/l	48.65	0.3	4500	103	P	
118	**Sn**	1	**49.500**	ug/l	49.50	0.9	4500	103	P	
123	**Sb**	1	**49.340**	ug/l	49.34	1.2	4500	103	P	
135	**Ba**	1	**49.760**	ug/l	49.76	1.4	4500	103	P	
200	**Hg**	1	**2.351**	ug/l	2.35	0.8	45	209	P	
205	**Tl**	1	**45.370**	ug/l	45.37	3.9	4500	209	A	
208	**Pb**	1	**47.810**	ug/l	47.81	1.1	4500	209	P	
238	**U**	1	**46.620**	ug/l	46.62	0.9	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	111089	0.82	96090	**115.6**	30	-	125	
45	Sc	1	2145099	2.44	1758000	**122.0**	30	-	125	
74	Ge	1	4701823	1.23	4097000	**114.8**	30	-	125	
103	Rh	1	6272403	1.07	5915000	**106.0**	30	-	125	
165	Ho	1	2845824	1.45	2615000	**108.8**	30	-	125	
175	Lu	1	2418609	0.52	2149000	**112.5**	30	-	125	
209	Bi	1	2930148	0.95	2737000	**107.1**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\106SMPL.D\106SMPL.D#
Date Acquired: Aug 5 2011 04:16 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.004**	ug/l	0.00	79.5	900	74	P	
23	**Na**	1	**-24.530**	ug/l	-24.53	6.7	450000	45	P	
24	**Mg**	1	**0.477**	ug/l	0.48	16.3	450000	45	P	
27	**Al**	1	**-0.180**	ug/l	-0.18	66.9	450000	45	P	
31	**P**	1	**1.312**	ug/l	1.31	76.0	450000	45	P	
39	**K**	1	**1.308**	ug/l	1.31	191.4	450000	45	P	
44	**Ca**	1	**-1.068**	ug/l	-1.07	18.5	450000	45	P	
47	**Ti**	1	**0.043**	ug/l	0.04	43.2	4500	45	P	
51	**V**	1	**0.175**	ug/l	0.17	11.0	4500	74	P	
52	**Cr**	1	**0.026**	ug/l	0.03	8.5	4500	74	P	
55	**Mn**	1	**0.016**	ug/l	0.02	24.6	4500	74	P	
56	**Fe**	1	**1.785**	ug/l	1.79	5.6	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	436.9	4500	74	P	
60	**Ni**	1	**0.015**	ug/l	0.01	67.1	4500	74	P	
63	**Cu**	1	**-0.015**	ug/l	-0.02	27.2	4500	74	P	
66	**Zn**	1	**-0.053**	ug/l	-0.05	151.8	4500	74	P	
75	**As**	1	**0.044**	ug/l	0.04	33.8	4500	74	P	
78	**Se**	1	**0.191**	ug/l	0.19	33.2	4500	74	P	
88	**Sr**	1	**0.014**	ug/l	0.01	19.1	4500	103	P	
95	**Mo**	1	**0.042**	ug/l	0.04	32.9	4500	103	P	
109	**Ag**	1	**-0.004**	ug/l	0.00	16.0	4500	103	P	
111	**Cd**	1	**0.000**	ug/l	0.00	2007.3	4500	103	P	
118	**Sn**	1	**0.285**	ug/l	0.28	15.0	4500	103	P	
123	**Sb**	1	**0.761**	ug/l	0.76	18.0	4500	103	P	
135	**Ba**	1	**0.012**	ug/l	0.01	67.7	4500	103	P	
200	**Hg**	1	**0.022**	ug/l	0.02	21.6	45	209	P	
205	**Tl**	1	**0.308**	ug/l	0.31	12.6	4500	209	P	
208	**Pb**	1	**-0.013**	ug/l	-0.01	38.5	4500	209	P	
238	**U**	1	**0.005**	ug/l	0.00	20.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	114046	0.21	96090	**118.7**	30 - 125	
45	Sc	1	2160899	2.38	1758000	**122.9**	30 - 125	
74	Ge	1	4700105	0.27	4097000	**114.7**	30 - 125	
103	Rh	1	6460222	0.50	5915000	**109.2**	30 - 125	
165	Ho	1	2882591	1.32	2615000	**110.2**	30 - 125	
175	Lu	1	2444804	0.77	2149000	**113.8**	30 - 125	
209	Bi	1	3026288	0.77	2737000	**110.6**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\107SMPL.D\107SMPL.D#
Date Acquired: Aug 5 2011 04:21 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-2-D Vial Number: 4301
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.250**	ug/l	2.50	5.3	900	74	P	
23	**Na**	1	**425.700**	ug/l	4,257.00	0.6	450000	45	A	
24	**Mg**	1	**9032.000**	ug/l	90,320.00	0.6	450000	45	A	
27	**Al**	1	**12940.000**	ug/l	129,400.00	1.3	450000	45	A	
31	**P**	1	**1437.000**	ug/l	14,370.00	1.7	450000	45	P	
39	**K**	1	**1536.000**	ug/l	15,360.00	1.1	450000	45	A	
44	**Ca**	1	**6303.000**	ug/l	63,030.00	1.1	450000	45	P	
47	**Ti**	1	**640.400**	ug/l	6,404.00	1.6	4500	45	P	
51	**V**	1	**58.800**	ug/l	588.00	1.9	4500	74	P	
52	**Cr**	1	**31.640**	ug/l	316.40	1.4	4500	74	P	
55	**Mn**	1	**742.800**	ug/l	7,428.00	0.2	4500	74	A	
56	**Fe**	1	**33920.000**	ug/l	339,200.00	1.0	450000	74	A	
59	**Co**	1	**16.250**	ug/l	162.50	1.6	4500	74	P	
60	**Ni**	1	**43.670**	ug/l	436.70	1.9	4500	74	P	
63	**Cu**	1	**47.440**	ug/l	474.40	2.3	4500	74	P	
66	**Zn**	1	**74.960**	ug/l	749.60	1.3	4500	74	P	
75	**As**	1	**17.730**	ug/l	177.30	1.4	4500	74	P	
78	**Se**	1	**0.975**	ug/l	9.75	5.7	4500	74	P	
88	**Sr**	1	**40.360**	ug/l	403.60	1.1	4500	103	P	
95	**Mo**	1	**1.095**	ug/l	10.95	2.8	4500	103	P	
109	**Ag**	1	**0.097**	ug/l	0.97	1.9	4500	103	P	
111	**Cd**	1	**0.316**	ug/l	3.16	6.5	4500	103	P	
118	**Sn**	1	**0.466**	ug/l	4.66	4.9	4500	103	P	
123	**Sb**	1	**2.579**	ug/l	25.79	3.9	4500	103	P	
135	**Ba**	1	**167.900**	ug/l	1,679.00	1.1	4500	103	P	
200	**Hg**	1	**0.042**	ug/l	0.42	8.7	45	209	P	
205	**Tl**	1	**0.262**	ug/l	2.62	10.9	4500	209	P	
208	**Pb**	1	**12.170**	ug/l	121.70	0.8	4500	209	P	
238	**U**	1	**0.953**	ug/l	9.53	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114748	0.93	96090	**119.4**	30	-	125	
45	Sc	1	2180653	1.19	1758000	**124.0**	30	-	125	
74	Ge	1	4680577	1.43	4097000	**114.2**	30	-	125	
103	Rh	1	6146863	1.13	5915000	**103.9**	30	-	125	
165	Ho	1	2843246	1.96	2615000	**108.7**	30	-	125	
175	Lu	1	2420265	2.27	2149000	**112.6**	30	-	125	
209	Bi	1	2827197	0.50	2737000	**103.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\108SMPL.D\108SMPL.D#
Date Acquired: Aug 5 2011 04:26 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-2-E MS Vial Number: 4302
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.492**	ug/l	124.60	5.0	900	74	P	
23	**Na**	1	**598.300**	ug/l	29,915.00	1.4	450000	45	A	
24	**Mg**	1	**2808.000**	ug/l	140,400.00	1.4	450000	45	A	
27	**Al**	1	**3921.000**	ug/l	196,050.00	2.2	450000	45	A	
31	**P**	1	**769.600**	ug/l	38,480.00	1.8	450000	45	P	
39	**K**	1	**942.800**	ug/l	47,140.00	1.3	450000	45	A	
44	**Ca**	1	**2051.000**	ug/l	102,550.00	0.5	450000	45	P	
47	**Ti**	1	**272.300**	ug/l	13,615.00	1.0	4500	45	P	
51	**V**	1	**36.460**	ug/l	1,823.00	1.6	4500	74	P	
52	**Cr**	1	**16.870**	ug/l	843.50	1.7	4500	74	P	
55	**Mn**	1	**254.800**	ug/l	12,740.00	0.3	4500	74	A	
56	**Fe**	1	**8911.000**	ug/l	445,550.00	1.7	450000	74	A	
59	**Co**	1	**26.880**	ug/l	1,344.00	1.8	4500	74	P	
60	**Ni**	1	**34.590**	ug/l	1,729.50	2.1	4500	74	P	
63	**Cu**	1	**23.910**	ug/l	1,195.50	2.2	4500	74	P	
66	**Zn**	1	**41.200**	ug/l	2,060.00	0.2	4500	74	P	
75	**As**	1	**95.260**	ug/l	4,763.00	2.2	4500	74	P	
78	**Se**	1	**93.890**	ug/l	4,694.50	1.7	4500	74	P	
88	**Sr**	1	**10.800**	ug/l	540.00	0.8	4500	103	P	
95	**Mo**	1	**112.400**	ug/l	5,620.00	0.6	4500	103	P	
109	**Ag**	1	**13.740**	ug/l	687.00	1.4	4500	103	P	
111	**Cd**	1	**2.409**	ug/l	120.45	4.3	4500	103	P	
118	**Sn**	1	**116.100**	ug/l	5,805.00	1.7	4500	103	P	
123	**Sb**	1	**42.320**	ug/l	2,116.00	2.4	4500	103	P	
135	**Ba**	1	**140.200**	ug/l	7,010.00	1.4	4500	103	P	
200	**Hg**	1	**1.151**	ug/l	57.55	3.6	45	209	P	
205	**Tl**	1	**95.470**	ug/l	4,773.50	0.3	4500	209	A	
208	**Pb**	1	**26.520**	ug/l	1,326.00	2.6	4500	209	P	
238	**U**	1	**0.238**	ug/l	11.92	8.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	117222	1.32	96090	**122.0**	30 - 125	
45	Sc	1	2182931	0.28	1758000	**124.2**	30 - 125	
74	Ge	1	4754030	1.58	4097000	**116.0**	30 - 125	
103	Rh	1	6285141	1.03	5915000	**106.3**	30 - 125	
165	Ho	1	2886298	0.68	2615000	**110.4**	30 - 125	
175	Lu	1	2433163	0.90	2149000	**113.2**	30 - 125	
209	Bi	1	2866423	1.94	2737000	**104.7**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\109SMPL.D\109SMPL.D#
Date Acquired: Aug 5 2011 04:31 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-2-F MSD Vial Number: 4303
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**2.508**	ug/l	125.40	4.1	900	74	P	
23	**Na**	1	**620.500**	ug/l	31,025.00	1.9	450000	45	A	
24	**Mg**	1	**2882.000**	ug/l	144,100.00	0.6	450000	45	A	
27	**Al**	1	**4093.000**	ug/l	204,650.00	2.8	450000	45	A	
31	**P**	1	**810.400**	ug/l	40,520.00	0.7	450000	45	P	
39	**K**	1	**980.100**	ug/l	49,005.00	0.7	450000	45	A	
44	**Ca**	1	**2134.000**	ug/l	106,700.00	1.3	450000	45	P	
47	**Ti**	1	**271.800**	ug/l	13,590.00	2.2	4500	45	P	
51	**V**	1	**38.380**	ug/l	1,919.00	1.7	4500	74	P	
52	**Cr**	1	**18.130**	ug/l	906.50	2.4	4500	74	P	
55	**Mn**	1	**284.800**	ug/l	14,240.00	0.7	4500	74	A	
56	**Fe**	1	**9552.000**	ug/l	477,600.00	1.1	450000	74	A	
59	**Co**	1	**28.950**	ug/l	1,447.50	1.9	4500	74	P	
60	**Ni**	1	**37.530**	ug/l	1,876.50	2.8	4500	74	P	
63	**Cu**	1	**26.070**	ug/l	1,303.50	1.8	4500	74	P	
66	**Zn**	1	**44.120**	ug/l	2,206.00	2.9	4500	74	P	
75	**As**	1	**102.200**	ug/l	5,110.00	1.6	4500	74	P	
78	**Se**	1	**100.200**	ug/l	5,010.00	2.2	4500	74	P	
88	**Sr**	1	**11.610**	ug/l	580.50	1.2	4500	103	P	
95	**Mo**	1	**118.000**	ug/l	5,900.00	1.5	4500	103	P	
109	**Ag**	1	**14.440**	ug/l	722.00	1.1	4500	103	P	
111	**Cd**	1	**2.543**	ug/l	127.15	3.9	4500	103	P	
118	**Sn**	1	**121.900**	ug/l	6,095.00	1.5	4500	103	P	
123	**Sb**	1	**45.110**	ug/l	2,255.50	1.3	4500	103	P	
135	**Ba**	1	**151.600**	ug/l	7,580.00	1.3	4500	103	P	
200	**Hg**	1	**1.191**	ug/l	59.55	1.7	45	209	P	
205	**Tl**	1	**100.200**	ug/l	5,010.00	2.8	4500	209	A	
208	**Pb**	1	**27.860**	ug/l	1,393.00	2.0	4500	209	P	
238	**U**	1	**0.239**	ug/l	11.97	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	118351	1.59	96090	**123.2**	30	-	125	
45	Sc	1	2228692	1.40	1758000	**126.8**	30	-	125	**IS Fail**
74	Ge	1	4735199	1.02	4097000	**115.6**	30	-	125	
103	Rh	1	6331901	1.02	5915000	**107.0**	30	-	125	
165	Ho	1	2869194	2.19	2615000	**109.7**	30	-	125	
175	Lu	1	2407345	2.18	2149000	**112.0**	30	-	125	
209	Bi	1	2914937	1.23	2737000	**106.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\110SMPL.D\110SMPL.D#
Date Acquired: Aug 5 2011 04:36 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-1-E Vial Number: 4304
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.183**	ug/l	1.83	17.4	900	74	P	
23	**Na**	1	**196.900**	ug/l	1,969.00	2.7	450000	45	P	
24	**Mg**	1	**5209.000**	ug/l	52,090.00	2.5	450000	45	A	
27	**Al**	1	**7622.000**	ug/l	76,220.00	0.8	450000	45	A	
31	**P**	1	**833.100**	ug/l	8,331.00	3.0	450000	45	P	
39	**K**	1	**906.600**	ug/l	9,066.00	0.3	450000	45	A	
44	**Ca**	1	**3354.000**	ug/l	33,540.00	1.1	450000	45	P	
47	**Ti**	1	**292.400**	ug/l	2,924.00	1.8	4500	45	P	
51	**V**	1	**31.080**	ug/l	310.80	2.7	4500	74	P	
52	**Cr**	1	**16.320**	ug/l	163.20	3.5	4500	74	P	
55	**Mn**	1	**228.700**	ug/l	2,287.00	2.4	4500	74	A	
56	**Fe**	1	**20860.000**	ug/l	208,600.00	1.9	450000	74	A	
59	**Co**	1	**9.807**	ug/l	98.07	2.7	4500	74	P	
60	**Ni**	1	**22.380**	ug/l	223.80	3.8	4500	74	P	
63	**Cu**	1	**22.010**	ug/l	220.10	3.3	4500	74	P	
66	**Zn**	1	**41.560**	ug/l	415.60	3.0	4500	74	P	
75	**As**	1	**16.450**	ug/l	164.50	4.6	4500	74	P	
78	**Se**	1	**0.694**	ug/l	6.94	8.2	4500	74	P	
88	**Sr**	1	**21.290**	ug/l	212.90	2.4	4500	103	P	
95	**Mo**	1	**0.781**	ug/l	7.81	5.3	4500	103	P	
109	**Ag**	1	**0.078**	ug/l	0.78	7.4	4500	103	P	
111	**Cd**	1	**0.158**	ug/l	1.58	14.2	4500	103	P	
118	**Sn**	1	**0.812**	ug/l	8.12	10.9	4500	103	P	
123	**Sb**	1	**1.005**	ug/l	10.05	2.7	4500	103	P	
135	**Ba**	1	**88.690**	ug/l	886.90	2.7	4500	103	P	
200	**Hg**	1	**0.037**	ug/l	0.37	6.1	45	209	P	
205	**Tl**	1	**0.363**	ug/l	3.63	10.3	4500	209	P	
208	**Pb**	1	**6.986**	ug/l	69.86	1.4	4500	209	P	
238	**U**	1	**0.666**	ug/l	6.66	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	114835	1.37	96090	**119.5**	30 - 125	
45	Sc	1	2155766	1.84	1758000	**122.6**	30 - 125	
74	Ge	1	4690038	2.51	4097000	**114.5**	30 - 125	
103	Rh	1	6228340	1.54	5915000	**105.3**	30 - 125	
165	Ho	1	2875427	1.76	2615000	**110.0**	30 - 125	
175	Lu	1	2401362	0.90	2149000	**111.7**	30 - 125	
209	Bi	1	2882489	1.03	2737000	**105.3**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\111SMPL.D\111SMPL.D#
Date Acquired: Aug 5 2011 04:40 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-3-E Vial Number: 4305
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.130**	ug/l	1.30	19.5	900	74	P	
23	**Na**	1	**138.500**	ug/l	1,385.00	1.7	450000	45	P	
24	**Mg**	1	**4239.000**	ug/l	42,390.00	0.5	450000	45	A	
27	**Al**	1	**5808.000**	ug/l	58,080.00	2.1	450000	45	A	
31	**P**	1	**606.800**	ug/l	6,068.00	0.4	450000	45	P	
39	**K**	1	**681.400**	ug/l	6,814.00	2.0	450000	45	A	
44	**Ca**	1	**2539.000**	ug/l	25,390.00	1.1	450000	45	P	
47	**Ti**	1	**228.500**	ug/l	2,285.00	0.6	4500	45	P	
51	**V**	1	**24.590**	ug/l	245.90	0.6	4500	74	P	
52	**Cr**	1	**11.820**	ug/l	118.20	1.4	4500	74	P	
55	**Mn**	1	**200.500**	ug/l	2,005.00	2.2	4500	74	A	
56	**Fe**	1	**14890.000**	ug/l	148,900.00	1.9	450000	74	A	
59	**Co**	1	**7.115**	ug/l	71.15	0.8	4500	74	P	
60	**Ni**	1	**17.920**	ug/l	179.20	1.4	4500	74	P	
63	**Cu**	1	**17.800**	ug/l	178.00	1.0	4500	74	P	
66	**Zn**	1	**31.550**	ug/l	315.50	1.4	4500	74	P	
75	**As**	1	**8.489**	ug/l	84.89	0.8	4500	74	P	
78	**Se**	1	**0.453**	ug/l	4.53	15.1	4500	74	P	
88	**Sr**	1	**14.650**	ug/l	146.50	0.9	4500	103	P	
95	**Mo**	1	**0.433**	ug/l	4.33	5.3	4500	103	P	
109	**Ag**	1	**0.052**	ug/l	0.52	1.3	4500	103	P	
111	**Cd**	1	**0.111**	ug/l	1.11	7.5	4500	103	P	
118	**Sn**	1	**0.416**	ug/l	4.16	11.8	4500	103	P	
123	**Sb**	1	**0.799**	ug/l	7.99	8.9	4500	103	P	
135	**Ba**	1	**65.930**	ug/l	659.30	1.2	4500	103	P	
200	**Hg**	1	**0.028**	ug/l	0.28	5.4	45	209	P	
205	**Tl**	1	**0.202**	ug/l	2.02	10.6	4500	209	P	
208	**Pb**	1	**5.462**	ug/l	54.62	1.5	4500	209	P	
238	**U**	1	**0.429**	ug/l	4.29	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	116778	0.85	96090	**121.5**	30	-	125	
45	Sc	1	2206183	0.50	1758000	**125.5**	30	-	125	**IS Fail**
74	Ge	1	4775774	1.31	4097000	**116.6**	30	-	125	
103	Rh	1	6277226	0.54	5915000	**106.1**	30	-	125	
165	Ho	1	2889785	2.18	2615000	**110.5**	30	-	125	
175	Lu	1	2425545	0.76	2149000	**112.9**	30	-	125	
209	Bi	1	2920475	1.17	2737000	**106.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\112SMPL.D\112SMPL.D#
Date Acquired: Aug 5 2011 04:45 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-4-E Vial Number: 4306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.314**	ug/l	3.14	9.3	900	74	P	
23	**Na**	1	**436.700**	ug/l	4,367.00	2.5	450000	45	A	
24	**Mg**	1	**8733.000**	ug/l	87,330.00	1.0	450000	45	A	
27	**Al**	1	**14560.000**	ug/l	145,600.00	1.7	450000	45	A	
31	**P**	1	**1687.000**	ug/l	16,870.00	1.2	450000	45	P	
39	**K**	1	**1541.000**	ug/l	15,410.00	0.1	450000	45	A	
44	**Ca**	1	**7279.000**	ug/l	72,790.00	1.4	450000	45	P	
47	**Ti**	1	**680.600**	ug/l	6,806.00	1.3	4500	45	P	
51	**V**	1	**63.270**	ug/l	632.70	0.5	4500	74	P	
52	**Cr**	1	**30.830**	ug/l	308.30	0.9	4500	74	P	
55	**Mn**	1	**799.300**	ug/l	7,993.00	1.1	4500	74	A	
56	**Fe**	1	**38920.000**	ug/l	389,200.00	1.4	450000	74	A	
59	**Co**	1	**19.230**	ug/l	192.30	1.8	4500	74	P	
60	**Ni**	1	**46.270**	ug/l	462.70	1.6	4500	74	P	
63	**Cu**	1	**61.410**	ug/l	614.10	1.0	4500	74	P	
66	**Zn**	1	**87.640**	ug/l	876.40	0.8	4500	74	P	
75	**As**	1	**25.970**	ug/l	259.70	0.4	4500	74	P	
78	**Se**	1	**1.353**	ug/l	13.53	12.3	4500	74	P	
88	**Sr**	1	**43.840**	ug/l	438.40	0.9	4500	103	P	
95	**Mo**	1	**1.329**	ug/l	13.29	2.3	4500	103	P	
109	**Ag**	1	**0.105**	ug/l	1.05	6.8	4500	103	P	
111	**Cd**	1	**0.350**	ug/l	3.50	14.0	4500	103	P	
118	**Sn**	1	**0.499**	ug/l	4.99	4.2	4500	103	P	
123	**Sb**	1	**1.127**	ug/l	11.27	3.6	4500	103	P	
135	**Ba**	1	**182.300**	ug/l	1,823.00	0.4	4500	103	P	
200	**Hg**	1	**0.049**	ug/l	0.49	5.6	45	209	P	
205	**Tl**	1	**0.210**	ug/l	2.10	7.8	4500	209	P	
208	**Pb**	1	**15.180**	ug/l	151.80	0.8	4500	209	P	
238	**U**	1	**1.207**	ug/l	12.07	1.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	115010	0.53	96090	**119.7**	30	-	125	
45	Sc	1	2170731	1.41	1758000	**123.5**	30	-	125	
74	Ge	1	4649348	0.88	4097000	**113.5**	30	-	125	
103	Rh	1	6159834	0.42	5915000	**104.1**	30	-	125	
165	Ho	1	2854486	1.97	2615000	**109.2**	30	-	125	
175	Lu	1	2374421	0.69	2149000	**110.5**	30	-	125	
209	Bi	1	2841011	0.69	2737000	**103.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\113SMPL.D\113SMPL.D#
Date Acquired: Aug 5 2011 04:50 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-5-E Vial Number: 4307
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.298**	ug/l	2.98	8.0	900	74	P	
23	**Na**	1	**397.900**	ug/l	3,979.00	8.0	450000	45	A	
24	**Mg**	1	**8963.000**	ug/l	89,630.00	3.5	450000	45	A	
27	**Al**	1	**13830.000**	ug/l	138,300.00	2.2	450000	45	A	
31	**P**	1	**1391.000**	ug/l	13,910.00	3.5	450000	45	P	
39	**K**	1	**1733.000**	ug/l	17,330.00	3.0	450000	45	A	
44	**Ca**	1	**6342.000**	ug/l	63,420.00	2.3	450000	45	P	
47	**Ti**	1	**609.300**	ug/l	6,093.00	2.3	4500	45	P	
51	**V**	1	**58.100**	ug/l	581.00	0.9	4500	74	P	
52	**Cr**	1	**29.870**	ug/l	298.70	1.4	4500	74	P	
55	**Mn**	1	**975.400**	ug/l	9,754.00	0.6	4500	74	A	
56	**Fe**	1	**36450.000**	ug/l	364,500.00	1.0	450000	74	A	
59	**Co**	1	**18.590**	ug/l	185.90	1.2	4500	74	P	
60	**Ni**	1	**47.790**	ug/l	477.90	0.3	4500	74	P	
63	**Cu**	1	**58.920**	ug/l	589.20	0.7	4500	74	P	
66	**Zn**	1	**87.230**	ug/l	872.30	1.3	4500	74	P	
75	**As**	1	**22.440**	ug/l	224.40	1.0	4500	74	P	
78	**Se**	1	**1.138**	ug/l	11.38	5.6	4500	74	P	
88	**Sr**	1	**41.200**	ug/l	412.00	1.4	4500	103	P	
95	**Mo**	1	**1.158**	ug/l	11.58	3.0	4500	103	P	
109	**Ag**	1	**0.124**	ug/l	1.24	3.5	4500	103	P	
111	**Cd**	1	**0.442**	ug/l	4.42	4.0	4500	103	P	
118	**Sn**	1	**0.521**	ug/l	5.21	3.9	4500	103	P	
123	**Sb**	1	**1.013**	ug/l	10.13	4.4	4500	103	P	
135	**Ba**	1	**197.400**	ug/l	1,974.00	1.6	4500	103	P	
200	**Hg**	1	**0.046**	ug/l	0.46	11.6	45	209	P	
205	**Tl**	1	**0.204**	ug/l	2.04	6.5	4500	209	P	
208	**Pb**	1	**14.560**	ug/l	145.60	1.5	4500	209	P	
238	**U**	1	**1.062**	ug/l	10.62	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	114155	0.86	96090	**118.8**	30 - 125	
45	Sc	1	2173974	2.23	1758000	**123.7**	30 - 125	
74	Ge	1	4636704	0.54	4097000	**113.2**	30 - 125	
103	Rh	1	6146916	1.34	5915000	**103.9**	30 - 125	
165	Ho	1	2838790	1.66	2615000	**108.6**	30 - 125	
175	Lu	1	2387188	0.52	2149000	**111.1**	30 - 125	
209	Bi	1	2821595	1.26	2737000	**103.1**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\114SMPL.D\114SMPL.D#
Date Acquired: Aug 5 2011 04:55 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27819-A-6-E Vial Number: 4308
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.290**	ug/l	2.90	8.8	900	74	P	
23	**Na**	1	**364.100**	ug/l	3,641.00	5.9	450000	45	A	
24	**Mg**	1	**8482.000**	ug/l	84,820.00	0.3	450000	45	A	
27	**Al**	1	**14050.000**	ug/l	140,500.00	1.1	450000	45	A	
31	**P**	1	**1233.000**	ug/l	12,330.00	0.3	450000	45	P	
39	**K**	1	**1627.000**	ug/l	16,270.00	6.9	450000	45	A	
44	**Ca**	1	**8444.000**	ug/l	84,440.00	0.5	450000	45	P	
47	**Ti**	1	**608.400**	ug/l	6,084.00	0.4	4500	45	P	
51	**V**	1	**56.970**	ug/l	569.70	1.3	4500	74	P	
52	**Cr**	1	**29.190**	ug/l	291.90	1.2	4500	74	P	
55	**Mn**	1	**695.900**	ug/l	6,959.00	1.0	4500	74	A	
56	**Fe**	1	**36520.000**	ug/l	365,200.00	1.0	450000	74	A	
59	**Co**	1	**16.640**	ug/l	166.40	1.8	4500	74	P	
60	**Ni**	1	**39.570**	ug/l	395.70	1.6	4500	74	P	
63	**Cu**	1	**48.820**	ug/l	488.20	1.2	4500	74	P	
66	**Zn**	1	**86.290**	ug/l	862.90	1.4	4500	74	P	
75	**As**	1	**19.060**	ug/l	190.60	0.7	4500	74	P	
78	**Se**	1	**1.126**	ug/l	11.26	7.3	4500	74	P	
88	**Sr**	1	**45.440**	ug/l	454.40	0.5	4500	103	P	
95	**Mo**	1	**1.088**	ug/l	10.88	4.4	4500	103	P	
109	**Ag**	1	**0.122**	ug/l	1.22	4.9	4500	103	P	
111	**Cd**	1	**0.435**	ug/l	4.35	5.9	4500	103	P	
118	**Sn**	1	**0.482**	ug/l	4.82	6.1	4500	103	P	
123	**Sb**	1	**1.029**	ug/l	10.29	3.2	4500	103	P	
135	**Ba**	1	**184.600**	ug/l	1,846.00	0.4	4500	103	P	
200	**Hg**	1	**0.053**	ug/l	0.53	5.5	45	209	P	
205	**Tl**	1	**0.186**	ug/l	1.86	3.0	4500	209	P	
208	**Pb**	1	**15.140**	ug/l	151.40	1.0	4500	209	P	
238	**U**	1	**1.083**	ug/l	10.83	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114450	0.68	96090	**119.1**	30	-	125	
45	Sc	1	2189348	0.97	1758000	**124.5**	30	-	125	
74	Ge	1	4698898	1.00	4097000	**114.7**	30	-	125	
103	Rh	1	6202369	0.57	5915000	**104.9**	30	-	125	
165	Ho	1	2868054	1.53	2615000	**109.7**	30	-	125	
175	Lu	1	2400613	2.95	2149000	**111.7**	30	-	125	
209	Bi	1	2855693	1.35	2737000	**104.3**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\115SMPL.D\115SMPL.D#
Date Acquired: Aug 5 2011 04:59 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-1-B Vial Number: 4309
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.318**	ug/l	3.18	10.2	900	74	P	
23	**Na**	1	**586.900**	ug/l	5,869.00	9.0	450000	45	A	
24	**Mg**	1	**9296.000**	ug/l	92,960.00	0.4	450000	45	A	
27	**Al**	1	**15590.000**	ug/l	155,900.00	0.9	450000	45	A	
31	**P**	1	**1224.000**	ug/l	12,240.00	0.5	450000	45	P	
39	**K**	1	**1923.000**	ug/l	19,230.00	5.3	450000	45	A	
44	**Ca**	1	**6459.000**	ug/l	64,590.00	1.2	450000	45	P	
47	**Ti**	1	**725.600**	ug/l	7,256.00	0.3	4500	45	P	
51	**V**	1	**63.440**	ug/l	634.40	1.5	4500	74	P	
52	**Cr**	1	**34.000**	ug/l	340.00	2.0	4500	74	P	
55	**Mn**	1	**1004.000**	ug/l	10,040.00	1.5	4500	74	A	
56	**Fe**	1	**39790.000**	ug/l	397,900.00	0.5	450000	74	A	
59	**Co**	1	**22.200**	ug/l	222.00	1.0	4500	74	P	
60	**Ni**	1	**48.640**	ug/l	486.40	0.8	4500	74	P	
63	**Cu**	1	**73.790**	ug/l	737.90	0.8	4500	74	P	
66	**Zn**	1	**88.130**	ug/l	881.30	1.3	4500	74	P	
75	**As**	1	**27.950**	ug/l	279.50	0.8	4500	74	P	
78	**Se**	1	**1.320**	ug/l	13.20	5.6	4500	74	P	
88	**Sr**	1	**39.780**	ug/l	397.80	1.2	4500	103	P	
95	**Mo**	1	**1.274**	ug/l	12.74	4.8	4500	103	P	
109	**Ag**	1	**0.174**	ug/l	1.74	5.1	4500	103	P	
111	**Cd**	1	**0.376**	ug/l	3.76	13.9	4500	103	P	
118	**Sn**	1	**0.454**	ug/l	4.54	3.5	4500	103	P	
123	**Sb**	1	**0.928**	ug/l	9.28	4.8	4500	103	P	
135	**Ba**	1	**216.400**	ug/l	2,164.00	1.3	4500	103	P	
200	**Hg**	1	**0.058**	ug/l	0.58	9.4	45	209	P	
205	**Tl**	1	**0.193**	ug/l	1.93	9.1	4500	209	P	
208	**Pb**	1	**17.630**	ug/l	176.30	2.0	4500	209	P	
238	**U**	1	**1.119**	ug/l	11.19	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114021	1.26	96090	**118.7**	30	-	125	
45	Sc	1	2176901	1.70	1758000	**123.8**	30	-	125	
74	Ge	1	4697497	1.37	4097000	**114.7**	30	-	125	
103	Rh	1	6154261	0.84	5915000	**104.0**	30	-	125	
165	Ho	1	2840865	0.81	2615000	**108.6**	30	-	125	
175	Lu	1	2367643	0.36	2149000	**110.2**	30	-	125	
209	Bi	1	2817103	1.22	2737000	**102.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\116SMPL.D\116SMPL.D#
Date Acquired: Aug 5 2011 05:04 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-3-B Vial Number: 4310
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.237**	ug/l	2.37	7.4	900	74	P	
23	**Na**	1	**356.100**	ug/l	3,561.00	1.4	450000	45	A	
24	**Mg**	1	**8011.000**	ug/l	80,110.00	0.5	450000	45	A	
27	**Al**	1	**11400.000**	ug/l	114,000.00	1.0	450000	45	A	
31	**P**	1	**1303.000**	ug/l	13,030.00	1.3	450000	45	P	
39	**K**	1	**1401.000**	ug/l	14,010.00	1.0	450000	45	A	
44	**Ca**	1	**5618.000**	ug/l	56,180.00	1.8	450000	45	P	
47	**Ti**	1	**546.600**	ug/l	5,466.00	0.9	4500	45	P	
51	**V**	1	**50.240**	ug/l	502.40	0.4	4500	74	P	
52	**Cr**	1	**27.320**	ug/l	273.20	0.7	4500	74	P	
55	**Mn**	1	**661.900**	ug/l	6,619.00	1.1	4500	74	A	
56	**Fe**	1	**29260.000**	ug/l	292,600.00	0.2	450000	74	A	
59	**Co**	1	**14.540**	ug/l	145.40	0.6	4500	74	P	
60	**Ni**	1	**39.270**	ug/l	392.70	0.7	4500	74	P	
63	**Cu**	1	**42.280**	ug/l	422.80	0.4	4500	74	P	
66	**Zn**	1	**66.350**	ug/l	663.50	0.5	4500	74	P	
75	**As**	1	**15.270**	ug/l	152.70	1.4	4500	74	P	
78	**Se**	1	**0.941**	ug/l	9.41	5.9	4500	74	P	
88	**Sr**	1	**37.150**	ug/l	371.50	1.0	4500	103	P	
95	**Mo**	1	**1.040**	ug/l	10.40	3.7	4500	103	P	
109	**Ag**	1	**0.086**	ug/l	0.86	9.5	4500	103	P	
111	**Cd**	1	**0.261**	ug/l	2.61	15.5	4500	103	P	
118	**Sn**	1	**0.344**	ug/l	3.44	5.8	4500	103	P	
123	**Sb**	1	**2.304**	ug/l	23.04	1.6	4500	103	P	
135	**Ba**	1	**151.600**	ug/l	1,516.00	2.2	4500	103	P	
200	**Hg**	1	**0.030**	ug/l	0.30	17.2	45	209	P	
205	**Tl**	1	**0.134**	ug/l	1.34	15.0	4500	209	P	
208	**Pb**	1	**10.350**	ug/l	103.50	3.9	4500	209	P	
238	**U**	1	**0.816**	ug/l	8.16	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	116438	0.32	96090	**121.2**	30	-	125	
45	Sc	1	2205594	1.17	1758000	**125.5**	30	-	125	**IS Fail**
74	Ge	1	4707555	0.58	4097000	**114.9**	30	-	125	
103	Rh	1	6182515	0.96	5915000	**104.5**	30	-	125	
165	Ho	1	2851296	0.43	2615000	**109.0**	30	-	125	
175	Lu	1	2396538	0.42	2149000	**111.5**	30	-	125	
209	Bi	1	2846983	2.12	2737000	**104.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\117SMPL.D\117SMPL.D#
Date Acquired: Aug 5 2011 05:09 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**49.080**	ug/l	49.08	0.6	900	74	P	
23	**Na**	1	**4768.000**	ug/l	4,768.00	1.6	450000	45	A	
24	**Mg**	1	**4901.000**	ug/l	4,901.00	0.5	450000	45	A	
27	**Al**	1	**512.600**	ug/l	512.60	0.9	450000	45	P	
31	**P**	1	**5085.000**	ug/l	5,085.00	0.7	450000	45	P	
39	**K**	1	**5051.000**	ug/l	5,051.00	0.6	450000	45	A	
44	**Ca**	1	**4923.000**	ug/l	4,923.00	0.9	450000	45	P	
47	**Ti**	1	**47.400**	ug/l	47.40	0.7	4500	45	P	
51	**V**	1	**49.320**	ug/l	49.32	0.6	4500	74	P	
52	**Cr**	1	**48.410**	ug/l	48.41	1.4	4500	74	P	
55	**Mn**	1	**49.530**	ug/l	49.53	1.7	4500	74	P	
56	**Fe**	1	**4849.000**	ug/l	4,849.00	1.0	450000	74	A	
59	**Co**	1	**47.580**	ug/l	47.58	1.6	4500	74	P	
60	**Ni**	1	**46.890**	ug/l	46.89	0.9	4500	74	P	
63	**Cu**	1	**46.740**	ug/l	46.74	1.1	4500	74	P	
66	**Zn**	1	**46.130**	ug/l	46.13	2.1	4500	74	P	
75	**As**	1	**48.000**	ug/l	48.00	1.1	4500	74	P	
78	**Se**	1	**50.870**	ug/l	50.87	1.7	4500	74	P	
88	**Sr**	1	**51.620**	ug/l	51.62	1.4	4500	103	P	
95	**Mo**	1	**47.570**	ug/l	47.57	0.7	4500	103	P	
109	**Ag**	1	**48.220**	ug/l	48.22	1.4	4500	103	P	
111	**Cd**	1	**48.530**	ug/l	48.53	0.4	4500	103	P	
118	**Sn**	1	**49.750**	ug/l	49.75	1.7	4500	103	P	
123	**Sb**	1	**49.740**	ug/l	49.74	1.3	4500	103	P	
135	**Ba**	1	**49.600**	ug/l	49.60	0.9	4500	103	P	
200	**Hg**	1	**2.317**	ug/l	2.32	2.3	45	209	P	
205	**Tl**	1	**44.870**	ug/l	44.87	3.3	4500	209	A	
208	**Pb**	1	**47.790**	ug/l	47.79	2.2	4500	209	P	
238	**U**	1	**46.560**	ug/l	46.56	2.1	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114458	1.43	96090	**119.1**	30	-	125	
45	Sc	1	2173050	0.76	1758000	**123.6**	30	-	125	
74	Ge	1	4711327	1.30	4097000	**115.0**	30	-	125	
103	Rh	1	6234655	1.23	5915000	**105.4**	30	-	125	
165	Ho	1	2879727	0.95	2615000	**110.1**	30	-	125	
175	Lu	1	2437071	1.21	2149000	**113.4**	30	-	125	
209	Bi	1	2898706	2.02	2737000	**105.9**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\118SMPL.D\118SMPL.D#
Date Acquired: Aug 5 2011 05:14 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**-0.003**	ug/l	0.00	114.6	900	74	P	
23	**Na**	1	**-28.380**	ug/l	-28.38	6.6	450000	45	P	
24	**Mg**	1	**0.378**	ug/l	0.38	13.5	450000	45	P	
27	**Al**	1	**0.258**	ug/l	0.26	11.8	450000	45	P	
31	**P**	1	**0.971**	ug/l	0.97	54.5	450000	45	P	
39	**K**	1	**4.687**	ug/l	4.69	74.4	450000	45	P	
44	**Ca**	1	**-0.885**	ug/l	-0.88	54.4	450000	45	P	
47	**Ti**	1	**0.073**	ug/l	0.07	24.7	4500	45	P	
51	**V**	1	**0.274**	ug/l	0.27	4.6	4500	74	P	
52	**Cr**	1	**0.011**	ug/l	0.01	155.7	4500	74	P	
55	**Mn**	1	**0.014**	ug/l	0.01	24.3	4500	74	P	
56	**Fe**	1	**2.785**	ug/l	2.79	3.4	450000	74	P	
59	**Co**	1	**0.000**	ug/l	0.00	66.6	4500	74	P	
60	**Ni**	1	**0.004**	ug/l	0.00	72.9	4500	74	P	
63	**Cu**	1	**-0.012**	ug/l	-0.01	54.7	4500	74	P	
66	**Zn**	1	**-0.076**	ug/l	-0.08	10.0	4500	74	P	
75	**As**	1	**0.059**	ug/l	0.06	32.0	4500	74	P	
78	**Se**	1	**0.173**	ug/l	0.17	41.1	4500	74	P	
88	**Sr**	1	**0.008**	ug/l	0.01	108.8	4500	103	P	
95	**Mo**	1	**0.042**	ug/l	0.04	21.4	4500	103	P	
109	**Ag**	1	**-0.003**	ug/l	0.00	35.1	4500	103	P	
111	**Cd**	1	**-0.004**	ug/l	0.00	229.0	4500	103	P	
118	**Sn**	1	**0.158**	ug/l	0.16	14.7	4500	103	P	
123	**Sb**	1	**0.253**	ug/l	0.25	21.4	4500	103	P	
135	**Ba**	1	**0.010**	ug/l	0.01	139.6	4500	103	P	
200	**Hg**	1	**0.007**	ug/l	0.01	33.0	45	209	P	
205	**Tl**	1	**0.175**	ug/l	0.17	10.1	4500	209	P	
208	**Pb**	1	**0.000**	ug/l	0.00	6280.7	4500	209	P	
238	**U**	1	**0.003**	ug/l	0.00	24.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	1	117739	1.80	96090	**122.5**	30 - 125	
45	Sc	1	2181000	2.76	1758000	**124.1**	30 - 125	
74	Ge	1	4855754	0.85	4097000	**118.5**	30 - 125	
103	Rh	1	6524768	0.19	5915000	**110.3**	30 - 125	
165	Ho	1	2881275	1.40	2615000	**110.2**	30 - 125	
175	Lu	1	2458298	1.01	2149000	**114.4**	30 - 125	
209	Bi	1	3015608	0.90	2737000	**110.2**	30 - 125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\119SMPL.D\119SMPL.D#
Date Acquired: Aug 5 2011 05:19 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-4-B Vial Number: 4401
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.297**	ug/l	2.97	8.5	900	74	P	
23	**Na**	1	**657.400**	ug/l	6,574.00	3.4	450000	45	A	
24	**Mg**	1	**8930.000**	ug/l	89,300.00	1.2	450000	45	A	
27	**Al**	1	**15200.000**	ug/l	152,000.00	3.2	450000	45	A	
31	**P**	1	**1332.000**	ug/l	13,320.00	2.9	450000	45	P	
39	**K**	1	**1836.000**	ug/l	18,360.00	3.7	450000	45	A	
44	**Ca**	1	**6476.000**	ug/l	64,760.00	2.6	450000	45	P	
47	**Ti**	1	**713.500**	ug/l	7,135.00	2.9	4500	45	P	
51	**V**	1	**63.410**	ug/l	634.10	1.9	4500	74	P	
52	**Cr**	1	**32.960**	ug/l	329.60	1.7	4500	74	P	
55	**Mn**	1	**543.700**	ug/l	5,437.00	3.3	4500	74	A	
56	**Fe**	1	**38940.000**	ug/l	389,400.00	1.3	450000	74	A	
59	**Co**	1	**18.730**	ug/l	187.30	1.5	4500	74	P	
60	**Ni**	1	**46.570**	ug/l	465.70	1.7	4500	74	P	
63	**Cu**	1	**71.690**	ug/l	716.90	1.5	4500	74	P	
66	**Zn**	1	**88.200**	ug/l	882.00	2.1	4500	74	P	
75	**As**	1	**27.560**	ug/l	275.60	1.8	4500	74	P	
78	**Se**	1	**1.377**	ug/l	13.77	2.5	4500	74	P	
88	**Sr**	1	**44.790**	ug/l	447.90	1.7	4500	103	P	
95	**Mo**	1	**1.064**	ug/l	10.64	4.1	4500	103	P	
109	**Ag**	1	**0.152**	ug/l	1.52	2.2	4500	103	P	
111	**Cd**	1	**0.567**	ug/l	5.67	13.9	4500	103	P	
118	**Sn**	1	**0.443**	ug/l	4.43	4.2	4500	103	P	
123	**Sb**	1	**1.167**	ug/l	11.67	2.7	4500	103	P	
135	**Ba**	1	**192.200**	ug/l	1,922.00	2.3	4500	103	P	
200	**Hg**	1	**0.057**	ug/l	0.57	14.4	45	209	P	
205	**Tl**	1	**0.202**	ug/l	2.02	8.2	4500	209	P	
208	**Pb**	1	**15.320**	ug/l	153.20	1.7	4500	209	P	
238	**U**	1	**0.832**	ug/l	8.32	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	117291	0.18	96090	**122.1**	30	-	125	
45	Sc	1	2237952	2.88	1758000	**127.3**	30	-	125	**IS Fail**
74	Ge	1	4730279	1.49	4097000	**115.5**	30	-	125	
103	Rh	1	6202550	0.89	5915000	**104.9**	30	-	125	
165	Ho	1	2874783	1.20	2615000	**109.9**	30	-	125	
175	Lu	1	2451082	0.46	2149000	**114.1**	30	-	125	
209	Bi	1	2869497	1.03	2737000	**104.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\120SMPL.D\120SMPL.D#
Date Acquired: Aug 5 2011 05:23 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-5-B Vial Number: 4402
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.291**	ug/l	2.91	10.1	900	74	P	
23	**Na**	1	**551.000**	ug/l	5,510.00	2.9	450000	45	A	
24	**Mg**	1	**8666.000**	ug/l	86,660.00	1.3	450000	45	A	
27	**Al**	1	**13480.000**	ug/l	134,800.00	0.7	450000	45	A	
31	**P**	1	**1240.000**	ug/l	12,400.00	2.4	450000	45	P	
39	**K**	1	**1747.000**	ug/l	17,470.00	2.2	450000	45	A	
44	**Ca**	1	**10350.000**	ug/l	103,500.00	1.7	450000	45	A	
47	**Ti**	1	**651.300**	ug/l	6,513.00	1.5	4500	45	P	
51	**V**	1	**55.220**	ug/l	552.20	1.1	4500	74	P	
52	**Cr**	1	**64.640**	ug/l	646.40	0.9	4500	74	P	
55	**Mn**	1	**719.500**	ug/l	7,195.00	1.7	4500	74	A	
56	**Fe**	1	**44380.000**	ug/l	443,800.00	2.2	450000	74	A	
59	**Co**	1	**17.440**	ug/l	174.40	0.5	4500	74	P	
60	**Ni**	1	**47.490**	ug/l	474.90	0.5	4500	74	P	
63	**Cu**	1	**676.400**	ug/l	6,764.00	0.1	4500	74	A	
66	**Zn**	1	**399.000**	ug/l	3,990.00	3.8	4500	74	A	
75	**As**	1	**32.120**	ug/l	321.20	1.2	4500	74	P	
78	**Se**	1	**1.435**	ug/l	14.35	7.8	4500	74	P	
88	**Sr**	1	**58.040**	ug/l	580.40	0.8	4500	103	P	
95	**Mo**	1	**1.844**	ug/l	18.44	4.1	4500	103	P	
109	**Ag**	1	**8.662**	ug/l	86.62	1.4	4500	103	P	
111	**Cd**	1	**2.348**	ug/l	23.48	1.5	4500	103	P	
118	**Sn**	1	**29.270**	ug/l	292.70	0.7	4500	103	P	
123	**Sb**	1	**27.240**	ug/l	272.40	2.4	4500	103	P	
135	**Ba**	1	**231.000**	ug/l	2,310.00	1.7	4500	103	P	
200	**Hg**	1	**0.050**	ug/l	0.50	8.3	45	209	P	
205	**Tl**	1	**0.173**	ug/l	1.73	13.0	4500	209	P	
208	**Pb**	1	**202.500**	ug/l	2,025.00	0.9	4500	209	A	
238	**U**	1	**1.286**	ug/l	12.86	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	117321	0.75	96090	**122.1**	30	-	125	
45	Sc	1	2231003	2.23	1758000	**126.9**	30	-	125	**IS Fail**
74	Ge	1	4735759	0.32	4097000	**115.6**	30	-	125	
103	Rh	1	6208847	0.88	5915000	**105.0**	30	-	125	
165	Ho	1	2865405	1.56	2615000	**109.6**	30	-	125	
175	Lu	1	2404553	1.41	2149000	**111.9**	30	-	125	
209	Bi	1	2841361	1.23	2737000	**103.8**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\121SMPL.D\121SMPL.D#
Date Acquired: Aug 5 2011 05:28 pm Acq. Method: 00He_ALL.M
Sample Name: 580-27820-A-6-B Vial Number: 4403
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.430**	ug/l	4.30	8.5	900	74	P	
23	**Na**	1	**603.000**	ug/l	6,030.00	3.7	450000	45	A	
24	**Mg**	1	**11370.000**	ug/l	113,700.00	1.0	450000	45	A	
27	**Al**	1	**19410.000**	ug/l	194,100.00	1.7	450000	45	A	
31	**P**	1	**1226.000**	ug/l	12,260.00	1.7	450000	45	P	
39	**K**	1	**2723.000**	ug/l	27,230.00	2.2	450000	45	A	
44	**Ca**	1	**8441.000**	ug/l	84,410.00	1.4	450000	45	P	
47	**Ti**	1	**779.200**	ug/l	7,792.00	1.2	4500	45	P	
51	**V**	1	**74.690**	ug/l	746.90	1.4	4500	74	P	
52	**Cr**	1	**62.690**	ug/l	626.90	1.0	4500	74	P	
55	**Mn**	1	**714.100**	ug/l	7,141.00	1.4	4500	74	A	
56	**Fe**	1	**47570.000**	ug/l	475,700.00	1.8	450000	74	A	
59	**Co**	1	**22.340**	ug/l	223.40	0.6	4500	74	P	
60	**Ni**	1	**46.350**	ug/l	463.50	1.1	4500	74	P	
63	**Cu**	1	**218.500**	ug/l	2,185.00	0.6	4500	74	A	
66	**Zn**	1	**123.700**	ug/l	1,237.00	0.8	4500	74	P	
75	**As**	1	**32.890**	ug/l	328.90	1.1	4500	74	P	
78	**Se**	1	**1.581**	ug/l	15.81	8.8	4500	74	P	
88	**Sr**	1	**51.070**	ug/l	510.70	1.1	4500	103	P	
95	**Mo**	1	**1.768**	ug/l	17.68	2.7	4500	103	P	
109	**Ag**	1	**4.437**	ug/l	44.37	0.6	4500	103	P	
111	**Cd**	1	**0.415**	ug/l	4.15	3.0	4500	103	P	
118	**Sn**	1	**0.628**	ug/l	6.28	6.1	4500	103	P	
123	**Sb**	1	**2.053**	ug/l	20.53	2.0	4500	103	P	
135	**Ba**	1	**265.200**	ug/l	2,652.00	3.1	4500	103	P	
200	**Hg**	1	**0.062**	ug/l	0.62	4.4	45	209	P	
205	**Tl**	1	**0.236**	ug/l	2.36	4.8	4500	209	P	
208	**Pb**	1	**28.270**	ug/l	282.70	2.6	4500	209	P	
238	**U**	1	**1.665**	ug/l	16.65	3.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	116374	0.51	96090	**121.1**	30	-	125	
45	Sc	1	2192013	0.93	1758000	**124.7**	30	-	125	
74	Ge	1	4682497	1.36	4097000	**114.3**	30	-	125	
103	Rh	1	6163216	0.55	5915000	**104.2**	30	-	125	
165	Ho	1	2870948	0.33	2615000	**109.8**	30	-	125	
175	Lu	1	2414705	1.73	2149000	**112.4**	30	-	125	
209	Bi	1	2833348	2.91	2737000	**103.5**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\122SMPL.D\122SMPL.D#
Date Acquired: Aug 5 2011 05:33 pm Acq. Method: 00He_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**48.900**	ug/l	48.90	0.8	900	74	P	
23	**Na**	1	**4819.000**	ug/l	4,819.00	2.0	450000	45	A	
24	**Mg**	1	**4905.000**	ug/l	4,905.00	1.5	450000	45	A	
27	**Al**	1	**515.000**	ug/l	515.00	2.5	450000	45	P	
31	**P**	1	**5093.000**	ug/l	5,093.00	2.0	450000	45	P	
39	**K**	1	**5195.000**	ug/l	5,195.00	3.8	450000	45	A	
44	**Ca**	1	**4931.000**	ug/l	4,931.00	2.0	450000	45	P	
47	**Ti**	1	**48.550**	ug/l	48.55	1.8	4500	45	P	
51	**V**	1	**49.010**	ug/l	49.01	1.3	4500	74	P	
52	**Cr**	1	**47.610**	ug/l	47.61	0.5	4500	74	P	
55	**Mn**	1	**49.160**	ug/l	49.16	1.3	4500	74	P	
56	**Fe**	1	**4863.000**	ug/l	4,863.00	0.9	450000	74	A	
59	**Co**	1	**47.330**	ug/l	47.33	1.0	4500	74	P	
60	**Ni**	1	**46.700**	ug/l	46.70	1.5	4500	74	P	
63	**Cu**	1	**46.480**	ug/l	46.48	1.2	4500	74	P	
66	**Zn**	1	**45.700**	ug/l	45.70	1.1	4500	74	P	
75	**As**	1	**47.800**	ug/l	47.80	1.3	4500	74	P	
78	**Se**	1	**50.080**	ug/l	50.08	1.6	4500	74	P	
88	**Sr**	1	**51.230**	ug/l	51.23	0.4	4500	103	P	
95	**Mo**	1	**47.240**	ug/l	47.24	0.8	4500	103	P	
109	**Ag**	1	**47.390**	ug/l	47.39	0.8	4500	103	P	
111	**Cd**	1	**48.210**	ug/l	48.21	0.9	4500	103	P	
118	**Sn**	1	**49.180**	ug/l	49.18	0.3	4500	103	P	
123	**Sb**	1	**49.080**	ug/l	49.08	0.7	4500	103	P	
135	**Ba**	1	**49.100**	ug/l	49.10	1.8	4500	103	P	
200	**Hg**	1	**2.307**	ug/l	2.31	2.6	45	209	P	
205	**Tl**	1	**44.580**	ug/l	44.58	4.6	4500	209	A	
208	**Pb**	1	**47.720**	ug/l	47.72	1.0	4500	209	P	
238	**U**	1	**46.490**	ug/l	46.49	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	114917	1.07	96090	**119.6**	30	-	125	
45	Sc	1	2187019	1.97	1758000	**124.4**	30	-	125	
74	Ge	1	4774474	1.01	4097000	**116.5**	30	-	125	
103	Rh	1	6313113	1.03	5915000	**106.7**	30	-	125	
165	Ho	1	2828474	1.04	2615000	**108.2**	30	-	125	
175	Lu	1	2410283	1.22	2149000	**112.2**	30	-	125	
209	Bi	1	2901177	1.26	2737000	**106.0**	30	-	125	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle Sample Report 200.8/6020 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\080511AM.B\123SMPL.D\123SMPL.D#
Date Acquired: Aug 5 2011 05:38 pm Acq. Method: 00He_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info: STDS&RL&CCV 00007,ICV 00009,ICSA&ICSAB 080111

Current Method: C:\ICPCHEM\1\METHODS\00He_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\00He_REP.C
Last Cal. Update: Aug 08 2011 07:13 am
ISTD Ref File : C:\ICPCHEM\1\DATA\080511AM.B\004CALB.D\004CALB.D#

Tune #	Name
1	ı\1\7500\he.u
2	'CHEM\1\7500\
3	'CHEM\1\7500\

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	1	**0.000**	ug/l	0.00	1350.6	900	74	P	
23	**Na**	1	**-29.480**	ug/l	-29.48	2.0	450000	45	P	
24	**Mg**	1	**0.337**	ug/l	0.34	20.4	450000	45	P	
27	**Al**	1	**0.146**	ug/l	0.15	100.6	450000	45	P	
31	**P**	1	**0.078**	ug/l	0.08	935.0	450000	45	P	
39	**K**	1	**0.764**	ug/l	0.76	207.4	450000	45	P	
44	**Ca**	1	**-1.385**	ug/l	-1.39	8.3	450000	45	P	
47	**Ti**	1	**0.081**	ug/l	0.08	32.4	4500	45	P	
51	**V**	1	**0.196**	ug/l	0.20	10.4	4500	74	P	
52	**Cr**	1	**0.019**	ug/l	0.02	25.5	4500	74	P	
55	**Mn**	1	**0.008**	ug/l	0.01	52.4	4500	74	P	
56	**Fe**	1	**3.043**	ug/l	3.04	11.2	450000	74	P	
59	**Co**	1	**-0.001**	ug/l	0.00	46.9	4500	74	P	
60	**Ni**	1	**0.010**	ug/l	0.01	97.9	4500	74	P	
63	**Cu**	1	**-0.010**	ug/l	-0.01	42.1	4500	74	P	
66	**Zn**	1	**-0.019**	ug/l	-0.02	12.5	4500	74	P	
75	**As**	1	**0.056**	ug/l	0.06	30.1	4500	74	P	
78	**Se**	1	**0.219**	ug/l	0.22	20.3	4500	74	P	
88	**Sr**	1	**0.012**	ug/l	0.01	46.3	4500	103	P	
95	**Mo**	1	**0.028**	ug/l	0.03	55.2	4500	103	P	
109	**Ag**	1	**-0.002**	ug/l	0.00	37.8	4500	103	P	
111	**Cd**	1	**0.008**	ug/l	0.01	49.7	4500	103	P	
118	**Sn**	1	**0.147**	ug/l	0.15	14.7	4500	103	P	
123	**Sb**	1	**0.205**	ug/l	0.21	18.5	4500	103	P	
135	**Ba**	1	**0.010**	ug/l	0.01	41.9	4500	103	P	
200	**Hg**	1	**0.006**	ug/l	0.01	41.5	45	209	P	
205	**Tl**	1	**0.169**	ug/l	0.17	7.9	4500	209	P	
208	**Pb**	1	**-0.016**	ug/l	-0.02	16.5	4500	209	P	
238	**U**	1	**0.003**	ug/l	0.00	36.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	1	116472	1.90	96090	**121.2**	30	-	125	
45	Sc	1	2216033	0.77	1758000	**126.1**	30	-	125	**IS Fail**
74	Ge	1	4785842	0.75	4097000	**116.8**	30	-	125	
103	Rh	1	6532100	0.45	5915000	**110.4**	30	-	125	
165	Ho	1	2876259	1.38	2615000	**110.0**	30	-	125	
175	Lu	1	2494301	1.36	2149000	**116.1**	30	-	125	
209	Bi	1	3056901	0.18	2737000	**111.7**	30	-	125	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

METALS BATCH WORKSHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Batch Number: 91886 Batch Start Date: 08/03/11 08:19 Batch Analyst: Stearns, Ryan

Batch Method: 1311 Batch End Date: 08/04/11 08:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EFD_InitialpH	EFD_AddHClpH>5	InitialRoomTemp	FinalRoomTemp
MB 580-91886/1		1311, 3010A, 6020		100.00 g	2000 mL	4.92 SU		22.6 Celsius	22.5 Celsius
580-27645-A-1	11NVNCDS001	1311, 3010A, 6020	P	91.78 g	1835 mL	7.67 SU	1.58	22.6 Celsius	22.5 Celsius
580-27645-A-2	11NVNCDS002	1311, 3010A, 6020	P	78.64 g	1570 mL	7.54 SU	1.62	22.6 Celsius	22.5 Celsius
MB 580-91886/7		1311, 3010A, 6020		100.00 g	2000 mL	2.88 SU		22.6 Celsius	22.5 Celsius

Lab Sample ID	Client Sample ID	Method Chain	Basis	LeachatepH	TCLP%Solids	ExtractFluid	AnalysisComment		
MB 580-91886/1		1311, 3010A, 6020		4.92 SU	100 %	1	Filtered with lot#395737		
580-27645-A-1	11NVNCDS001	1311, 3010A, 6020	P	4.86 SU	100 %	1	Filtered with lot#395737		
580-27645-A-2	11NVNCDS002	1311, 3010A, 6020	P	4.84 SU	100 %	1	Filtered with lot#395737		
MB 580-91886/7		1311, 3010A, 6020		2.88 SU	100 %	2	Filtered with lot#395737 Fluid#2		

Batch Notes	
Balance ID	SEA212
Batch Comment	Filtered with lot#395737
First End time	8/4/11 @ 0800
pH Meter ID	03
Room Temperature during Rotation	22.6 Degrees C
First Start time	8/3/11 @ 1515
TCLP Fluid 1 ID	761361
TCLP Fluid 2 ID	610130
Temperature	22.6
Tumbler Rotations per Minute	30
Uncorrected Final Room Temperature	22.5 Celsius
Uncorrected Initial Room Temperature	22.6 Celsius
Uncorrected Room Temperature	22.6 Celsius

METALS BATCH WORKSHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Batch Number: 91886 Batch Start Date: 08/03/11 08:19 Batch Analyst: Stearns, Ryan

Batch Method: 1311 Batch End Date: 08/04/11 08:00

Basis	Basis Description
P	TCLP

METALS BATCH WORKSHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Batch Number: 92052 Batch Start Date: 08/04/11 13:48 Batch Analyst: Boardway, Peter A

Batch Method: 3010A Batch End Date: 08/04/11 17:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	m-GPS-1 00021	m-GPS-2 00018	m-GPS-3 00018	m-GPS-4 00020
580-27782-B-1-B DU		3010A, 6020	P	50 mL	50 mL				
580-27782-B-1-B MS		3010A, 6020	P	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-27782-B-1-B MSD		3010A, 6020	P	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-27645-A-1-A	11NVNCDS001	3010A, 6020	P	50 mL	50 mL				
580-27645-A-2-A	11NVNCDS002	3010A, 6020	P	50 mL	50 mL				
MB 580-91886/7-A		3010A, 6020		50 mL	50 mL				
MB 580-91886/1-A		3010A, 6020		50 mL	50 mL				
LCS 580-92052/19		3010A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD 580-92052/20		3010A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM 580-92052/21		3010A, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MS-HgSpk 00011					
580-27782-B-1-B DU		3010A, 6020	P						
580-27782-B-1-B MS		3010A, 6020	P	1 mL					
580-27782-B-1-B MSD		3010A, 6020	P	1 mL					
580-27645-A-1-A	11NVNCDS001	3010A, 6020	P						
580-27645-A-2-A	11NVNCDS002	3010A, 6020	P						
MB 580-91886/7-A		3010A, 6020							
MB 580-91886/1-A		3010A, 6020							
LCS 580-92052/19		3010A, 6020		1 mL					
LCSD 580-92052/20		3010A, 6020		1 mL					
LCSSRM 580-92052/21		3010A, 6020		1 mL					

METALS BATCH WORKSHEET

Lab Name: TestAmerica Seattle Job No.: 580-27645-1

SDG No.:

Batch Number: 92052 Batch Start Date: 08/04/11 13:48 Batch Analyst: Boardway, Peter A

Batch Method: 3010A Batch End Date: 08/04/11 17:35

Batch Notes	
Lot # of hydrochloric acid	733839
Lot # of Nitric Acid	744520
Hot Block ID number	38010
Oven, Bath or Block Temperature 1	93.5 Degrees C
Pipette ID	20051014
ID number of the thermometer	15-041-1A-A
Digestion Tube/Cup Lot #	745282
Uncorrected Temperature	95 Celsius

Basis	Basis Description
P	TCLP

Shipping and Receiving Documents

Tacoma
5755 8th Street East
Tacoma, WA 98424
phone 253.922.2310 fax 253.922.5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tyler Ellingboe	Site Contact: Chuck Croley	Date: 7/25/2011	COC No: 001
Bristol Environmental Remediation Services, LLC	Tel/Fax: 907-563-0013	Lab Contact:	Carrier: AK Airlines	1 of 1 COCs
111 W 16th Ave, Third Floor	Analysis Turnaround Time			Job No. 49028
Anchorage, AK 99501	Calendar (C) or Work Days (W)			
(907)563-0013 Phone	TAT if different from Below _____			SDG No.
	■ 2 weeks			
Project Name: Northeast Cape	☐ 1 week			
Site: Northeast Cape	☐ 2 days			
P O # 5800464668-0	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TCLP Lead EPA SW6020	PCBs EPA 8082	Sample Specific Notes:
1	11NVNCDS001	7/24/2011	18:00	Grab	Debris	1		X	X	
2	11NVNCDS002	7/25/2011	18:30	Grab	Debris	1		X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments: Standard TAT — 5800464668-0

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
R. JAMES	BERS	7/25/11 1500		TH-SEH	7/27/11 1005
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

08/26/2011

Cooler ID No. ~~3 of 3~~ 3 of 3 TAL Work Order ~~27633~~ 27645 27633 SK

COOLER RECEIPT FORM

Project ~~NE Cape HTRW~~ EL Northeast Cape

Cooler received on 7/27 and opened on 7/27 by Francisco Luna, Jr

(signature)

Temperature upon receipt:

Cooler: Corr 3.0 °C, Uncorr 2.7 °C Therm ID: 102 137859

Temp. Blank: Corr 3.1 °C, Uncorr 2.8 °C Therm ID: 102137859

1.	Were custody seals on outside of cooler and intact? a. If yes, how many and where: 2 Front + Back b. Were signature and date correct? yes	YES NO
2.	Were custody papers taped to lid inside cooler?	YES NO
3.	Were custody papers properly filled out(ink, signed, etc)?	YES NO
4.	Did you sign custody papers in the appropriate place?	YES NO
5.	Did you attach shipper's packing slip to this form?	YES NO
6.	What kind of packing material was used? Bubble Wrap	
7.	Was sufficient ice used?	BLUE YES NO
8.	Were all bottles sealed in separate plastic bags?	YES NO
9.	Did all bottles arrive in good condition (unbroken)?	YES NO
10.	Were all bottle labels complete (no., date, signed, pres, etc)?	YES NO
11.	Did all bottle labels and tags agree with custody papers?	YES NO
12.	Were correct bottles used for the test indicated?	YES NO
13.	If present, were voa vials checked for absence of airbubbles and noted if found?	NA ~~YES NO~~
14.	Adequate volume of voa vials received per sample?	YES NO
15.	Was sufficient amount of sample sent in each bottle?	YES NO
16.	~~Were correct preservatives used?~~	NA ~~YES NO~~
17.	Were extra labels added to pre-tared containers?	NA ~~YES NO~~
18.	Corrective action taken, if necessary: a. Name of person contacted: _____ b. Date: _____	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
146112

Custody Seal

DATE

SIGNATURE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
146112

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
146111

Custody Seal

DATE

SIGNATURE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
146111

Alaska Air Cargo™
ALASKA AIRLINES & HORIZON AIR

P.O. BOX 68900 SEATTLE, WA 98168
800-225-2752 ALASKACARGO.COM

SHIPPER
BRISTOL ENVIRONMENTAL
111 W 16th Ave
Anchorage, AK 99501

CONSIGNEE
Test America Laboratories Inc
5755 8TH STREET E
TACOMA, WA 98498

AWB Number	Pieces	Weight	Origin / Dest	Nature of Goods	Arriving Flight Details	Customs
027-77755856	3	126.0 Lb	OME-SEA	WATER SAMPLES	AS 094 26-Jul-2011	

Storage Locations: MED 3

LOCAL CHARGES :

Bonded Warehouse ☐

Total Local Charges:	USD	0.00
VAT 0.00%:	USD	0.00
Grand Total:	USD	**0.00**

PO Number

RECEIPT STATEMENT

The undersigned acknowledge the receipt of above mentioned consignment complete and in good condition.

Date: 27-Jul-2011
Time: 09:24 Registration:
Driver: Francisco Signature:

027 OME 7775 5856 027-7775 5856

Shipper's Name and Address	Shipper's Account Number	Not Negotiable
BRISTOL ENVIRONMENT 111 W 16th Ave Anchorage, AK 99501 USA Tel: 9075630013	27442295111 Customer's ID Number 10189	**Air Waybill** Issued By Alaska Air Cargo ALASKA AIRLINES & HORIZON AIR P.O. BOX 68900 SEATTLE, WA 98168 800-225-2752 ALASKACARGO.COM
Consignee's Name and Address	**Consignee's Account Number**	**Also notify**
Test America Laboratories 5755 8TH STREET E TACOMA, WA 98498 USA Tel: 2539222310	27442464535	11/27 NTP Tel:
Issuing Carrier's Agent and City		**Accounting Information** 10189
		BRISTOL ENVIRONMENTAL 111 W 16th Ave Anchorage, AK 99501 USA
Agent's IATA Code	**Account No.**	
Airport of Departure (Addr. of First Carrier) and Requested Routing		GoldStreak
Nome		

To	By First Carrier	To / By		To / By		Currency		WT/VAL		Other		Declared Value For Carriage	Declared Value For Customs
ANC	Alaska Airlines	SEA	AS			USD	PX	X		X		NVD	NCV

Airport of Destination	Flight/Date	Flight/Date	Amount of Insurance	
Seattle	AS 152/26	AS 094/26	XXX	

Handling Information

SCI

No of Pieces	Gross Weight	kg lb		Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Incl. Dimensions or Volume)
3	126.0	L	Q		126.0		AS AGREED	WATER SAMPLES
								GSX
3	126.0						AS AGREED	Volume: 0.000

Prepaid	Weight Charge	Collect	Other Charges
AS AGREED			MYC 22.68 SCC 2.52
Valuation Charge			
Tax			
Total Other Charges Due Agent			Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations. I consent to the inspection of this cargo.
Total Other Charges Due Carrier			For: BRISTOL ENVIRONMENTAL Signature of Shipper or his Agent
			☒ THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS ☐ THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS
Total Prepaid	Total Collect		
AS AGREED			26 Jul 2011 11:26 Nome Alaska Airlines
			Executed On (Date) at (Place) Signature of Issuing Carrier or Its Agent

027-7775 5856

Tacoma
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax 253.922.5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tyler Ellingboe	Site Contact: Chuck Croley	Date: 8/5/2011	COC No: 002
Bristol Environmental Remediation Services, LLC	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
111 W 16th Ave, Third Floor	Analysis Turnaround Time			Job No. 49029
Anchorage, Alaska 99501	Calendar (C) or Work Days (W)			
(907) 563-0013 Phone	TAT if different from Below _____			SDG No.
(xxx) xxx-xxxx FAX	☐ 2 weeks			
Project Name: Savoonga NALEMP, 49029	☐ 1 week			
Site: Native Village of Northeast Cape	☐ 2 days			
P O # 49029	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	EPA 8082 PCBs	Sample Specific Notes:
11NVNCDS03	8/4/2011	1645	Comp	wood	2		X	
11NVNCDS04	8/5/2011	0815	Comp	wood	2		X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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

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

Special Instructions/QC Requirements & Comments:

Additional samples for Work Order 27645

Relinquished by: Tyler Ellingboe *Tyler S. Ellingboe*	Company: BERS	Date/Time: ~~8/5/11~~ 8/8/11 1000 hrs	Received by:	Company: TA-SEA	Date/Time: 8/9/11 0850
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Cooler ID No. 404 TAL Work Order 27892

COOLER RECEIPT FORM

Project ~~NE Cape HTRW~~ FL. Savoonga NAL EMP, 49029

Cooler received on 8/9 and opened on 8/9 by Francisco Lang J.

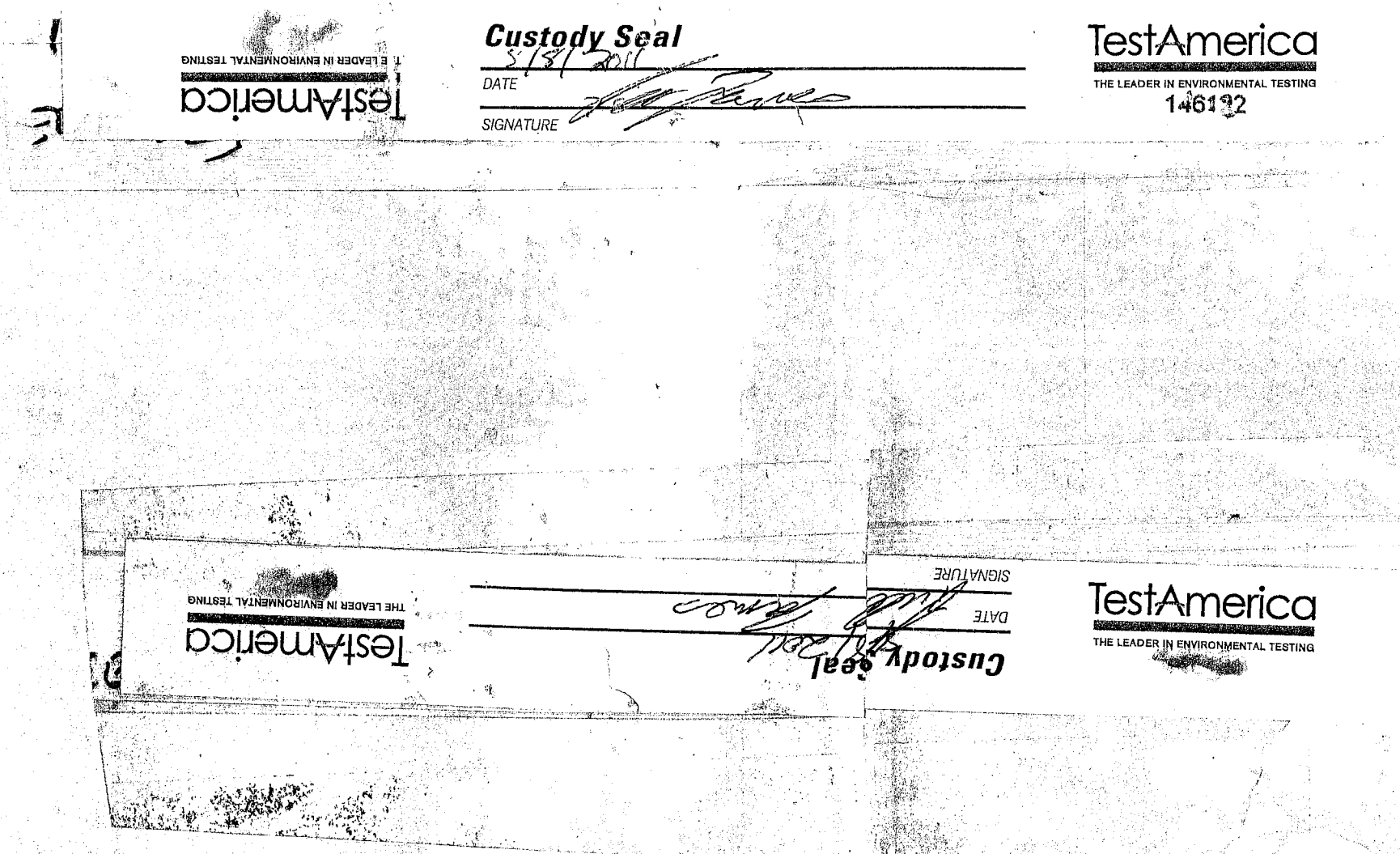
(signature)

Temperature upon receipt:

Cooler: Corr 5.9 °C, Uncorr 5.6 °C Therm ID: 102137859

Temp. Blank: Corr 2.2 °C, Uncorr 1.9 °C Therm ID: 102137859

1.	~~Were custody seals on outside of cooler and intact?~~	(YES) NO
	a. If yes, how many and where: 2 Front & Back	
	b. Were signature and date correct? Yes	
2.	Were custody papers taped to lid inside cooler?	(YES) NO
3.	Were custody papers properly filled out(ink, signed, etc)?	(YES) NO
4.	Did you sign custody papers in the appropriate place?	(YES) NO
5.	Did you attach shipper's packing slip to this form?	(YES) NO
6.	What kind of packing material was used? Bubble Wrap	
7.	Was sufficient ice used?	(YES) NO
8.	Were all bottles sealed in separate plastic bags?	YES NO
9.	Did all bottles arrive in good condition (unbroken)?	YES NO
10.	Were all bottle labels complete (no., date, signed, pres, etc)?	YES NO
11.	Did all bottle labels and tags agree with custody papers?	YES NO
12.	Were correct bottles used for the test indicated?	YES NO
13.	If present, were voa vials checked for absence of airbubbles and noted if found?	YES NO
14.	Adequate volume of voa vials received per sample?	YES NO
15.	~~Was sufficient amount of sample sent in each bottle?~~	~~YES NO~~
16.	~~Were correct preservatives used?~~	~~YES NO~~
17.	Were extra labels added to pre-tared containers?	YES NO
18.	Corrective action taken, if necessary:	
	a. Name of person contacted: _____	
	b. Date: _____	


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Custody Seal
5/18/2011
DATE
SIGNATURE
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
146192
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Custody Seal
DATE
SIGNATURE
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4 of 4

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-28355-1
Client Project/Site: Job 49029 Savoonga NALEMP

For:
Bristol Env. Remediation Services LLC
111 W 16th Ave
Suite 301
Anchorage, Alaska 99501

Attn: Molly Welker

Authorized for release by:
09/07/2011 01:50:27 PM
Melissa Armstrong
Project Manager I
melissa.armstrong@testamericainc.com

Designee for

Terri Torres
Project Manager II
terri.torres@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Definitions 4
Client Sample Results 5
QC Sample Results 6
Chronicle 8
Certification Summary 9
Sample Summary 10
Chain of Custody 11
Receipt Checklists 15

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Job ID: 580-28355-1

Laboratory: TestAmerica Seattle

Narrative

Receipt

The coc lists 1 container but 2 were received. Logged in and labeled second container.
The ID on the label of the second container lists NVNCASH01 as the ID. Logged in and labeled according to the COC.

All other samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Definitions/Glossary

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Qualifiers

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Client Sample ID: 11NVNCASH01
Date Collected: 08/24/11 08:30
Date Received: 08/30/11 16:15

Lab Sample ID: 580-28355-1
Matrix: Solid

Method: 6020 - Metals (ICP/MS) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.054**	**D**	0.010	0.0075	mg/L		09/02/11 10:36	09/02/11 18:59	10
Barium	**0.16**	**D**	0.012	0.00054	mg/L		09/02/11 10:36	09/02/11 18:59	10
Cadmium	**0.017**	**D**	0.0040	0.00028	mg/L		09/02/11 10:36	09/02/11 18:59	10
Chromium	**0.69**	**D**	0.0040	0.0027	mg/L		09/02/11 10:36	09/02/11 18:59	10
Lead	**7.9**	**D**	0.0040	0.00034	mg/L		09/02/11 10:36	09/02/11 18:59	10
Selenium	0.0071	U	0.010	0.0071	mg/L		09/02/11 10:36	09/02/11 18:59	10
Silver	0.00060	U	0.0040	0.00030	mg/L		09/02/11 10:36	09/02/11 18:59	10

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0010	U	0.0020	0.00041	mg/L		09/06/11 16:22	09/07/11 11:26	1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: LCS 580-94407/7-A
Matrix: Solid
Analysis Batch: 94599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	4.00	4.21	D	mg/L		105	80 - 120
Barium	4.00	4.02	D	mg/L		100	80 - 120
Cadmium	0.100	0.103	D	mg/L		103	80 - 120
Chromium	0.400	0.401	D	mg/L		100	80 - 120
Lead	1.00	0.995	D	mg/L		99	80 - 120
Selenium	4.00	4.13	D	mg/L		103	80 - 120
Silver	0.600	0.603	D	mg/L		100	80 - 120

Lab Sample ID: LCSD 580-94407/8-A
Matrix: Solid
Analysis Batch: 94599

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94407

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Arsenic	4.00	4.21	D	mg/L		105	80 - 120	0	20
Barium	4.00	4.01	D	mg/L		100	80 - 120	0	20
Cadmium	0.100	0.100	D	mg/L		100	80 - 120	3	20
Chromium	0.400	0.404	D	mg/L		101	80 - 120	1	20
Lead	1.00	0.991	D	mg/L		99	80 - 120	0	20
Selenium	4.00	4.14	D	mg/L		104	80 - 120	0	20
Silver	0.600	0.602	D	mg/L		100	80 - 120	0	20

Lab Sample ID: MB 580-94318/1-B
Matrix: Solid
Analysis Batch: 94599

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 94407

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0075	U	0.010	0.0075	mg/L		09/02/11 10:36	09/02/11 18:54	10
Barium	0.0010	U	0.012	0.00054	mg/L		09/02/11 10:36	09/02/11 18:54	10
Cadmium	0.00060	U	0.0040	0.00028	mg/L		09/02/11 10:36	09/02/11 18:54	10
Chromium	0.0030	U	0.0040	0.0027	mg/L		09/02/11 10:36	09/02/11 18:54	10
Lead	0.00070	U	0.0040	0.00034	mg/L		09/02/11 10:36	09/02/11 18:54	10
Selenium	0.0071	U	0.010	0.0071	mg/L		09/02/11 10:36	09/02/11 18:54	10
Silver	0.00060	U	0.0040	0.00030	mg/L		09/02/11 10:36	09/02/11 18:54	10

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 580-94676/19-A
Matrix: Solid
Analysis Batch: 94743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 94676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.0200	0.0206		mg/L		103	80 - 120

Lab Sample ID: LCSD 580-94676/20-A
Matrix: Solid
Analysis Batch: 94743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 94676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.0200	0.0206		mg/L		103	80 - 120	0	20

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 580-94318/1-D
Matrix: Solid
Analysis Batch: 94743

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 94676

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0010	U	0.0020	0.00041	mg/L		09/06/11 16:22	09/07/11 10:50	1

Lab Chronicle

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Client Sample ID: 11NVNCASH01
Date Collected: 08/24/11 08:30
Date Received: 08/30/11 16:15

Lab Sample ID: 580-28355-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			94318	09/01/11 13:00	RS	TAL SEA
TCLP	Prep	3010A			94407	09/02/11 10:36	PAB	TAL SEA
TCLP	Analysis	6020		10	94599	09/02/11 18:59	FCW	TAL SEA
TCLP	Prep	7470A			94676	09/06/11 16:22	PAB	TAL SEA
TCLP	Analysis	7470A		1	94743	09/07/11 11:26	FCW	TAL SEA

Laboratory References:
TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Seattle	Alaska	Alaska UST	10	UST-022
TestAmerica Seattle	Alaska	TA-Port Heiden Mobile Lab	10	UST-093
TestAmerica Seattle	California	NELAC	9	1115CA
TestAmerica Seattle	Florida	NELAC	4	E871074
TestAmerica Seattle	L-A-B	DoD ELAP		L2236
TestAmerica Seattle	L-A-B	ISO/IEC 17025		L2236
TestAmerica Seattle	Louisiana	NELAC	6	05016
TestAmerica Seattle	Montana	MT DEQ UST	8	N/A
TestAmerica Seattle	Oregon	NELAC	10	WA100007
TestAmerica Seattle	USDA	USDA		P330-11-00222
TestAmerica Seattle	Washington	State Program	10	C553

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratorv's current list of certified methods and analvtes.

Sample Summary

Client: Bristol Env. Remediation Services LLC
Project/Site: Job 49029 Savoonga NALEMP

TestAmerica Job ID: 580-28355-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-28355-1	11NVNCASH01	Solid	08/24/11 08:30	08/30/11 16:15

Tacoma
5755 8th Street East

Tacoma, WA 98424
phone 253.922.2310 fax 253.922.5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Tyler Ellingboe	Site Contact: Matt Faust	Date: 8/29/11	COC No: 003
Bristol Environmental	Tel/Fax: (907) 563-0013	Lab Contact: Terri Torres	Carrier: Alaska Airlines	____ of ____ COCs
111 West 16th Ave, Third Floor	Analysis Turnaround Time			
Anchorage Alaska, 99504	Calendar (C) or Work Days (W) C			
(907) 563-0013	TAT if different from Below ____			
(907) 563-6713	☐ 2 weeks			SDG No.
	■ 1 week			
Job 49029 Savoonga NALEMP	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	TCLP RCRA 8 Metals	Sample Specific Notes:
11NVNCASH01	8/24/2011	0830	Grab	Ash	1		X	

Cooler/TB Dig/IR cor 0.8 unc 0.5
Cooler Ds Smyth/Terry @ Lab 1615
Wet/Racks Packing Bubble
A2 W/CS

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

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

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

Special Instructions/QC Requirements & Comments: Please use 49029 as a billing reference number. This is a separate job from the rest of the Northeast Cape project.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Matt Faust	Bristol	8/29 1200	Jillian Pottmyer	TA-SEA	8/30/11 1615
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Cooler ID No. Small red/white TAL Work Order 28355

COOLER RECEIPT FORM

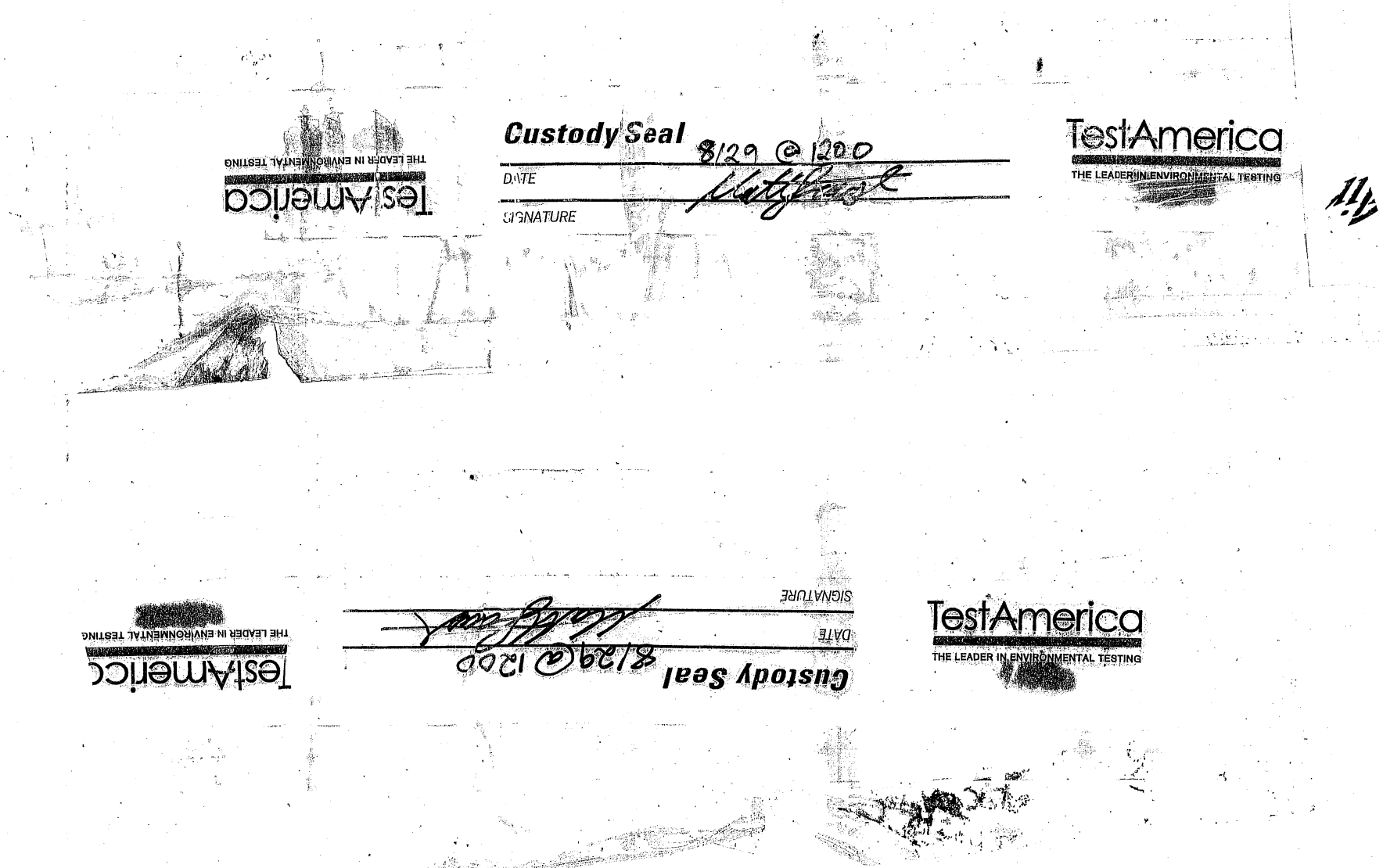
Project Savoonga NALEMP

Cooler received on 8/30 and opened on 8/30 by Jill

Jillian Patnaude
(signature)

Temperature upon receipt:
Cooler: Corr 1.7 °C, Uncorr 1.4 °C Therm ID: A2
Temp. Blank: Corr 0.8 °C, Uncorr 0.5 °C Therm ID: A2

1.	Were custody seals on outside of cooler and intact?	(YES) NO
	a. If yes, how many and where: 1 front 1 back	
	b. Were signature and date correct?	
2.	Were custody papers taped to lid inside cooler?	(YES) NO
3.	Were custody papers properly filled out(ink, signed, etc)?	(YES) NO
4.	Did you sign custody papers in the appropriate place?	(YES) NO
5.	Did you attach shipper's packing slip to this form?	(YES) NO
6.	What kind of packing material was used? bubble	
7.	Was sufficient ice used?	(YES) NO
8.	Were all bottles sealed in separate plastic bags?	YES (NO)
9.	Did all bottles arrive in good condition (unbroken)?	(YES) NO
10.	Were all bottle labels complete (no., date, signed, pres, etc)?	(YES) NO
11.	Did all bottle labels and tags agree with custody papers?	(YES) NO
12.	Were correct bottles used for the test indicated?	(YES) NO
13.	If present, were voa vials checked for absence of airbubbles and noted if found?	YES NO na
14.	Adequate volume of voa vials received per sample?	YES NO na
15.	Was sufficient amount of sample sent in each bottle?	(YES) NO
16.	Were correct preservatives used?	YES NO nr
17.	Were extra labels added to pre-tared containers?	YES NO na
18.	Corrective action taken, if necessary: a. Name of person contacted: _____ b. Date: _____	


Custody Seal
8/29 @ 1200
DATE
SIGNATURE
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Custody Seal
8/29 @ 1200
DATE
SIGNATURE
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Sm white/red

027 OME 9360 9821

027-9360 9821

Shipper's Name and Address
BRISTOL ENVIRONMENT
111 W 16th Ave
Anchorage, AK 99501
USA
Tel: 9075630013

Shipper's Account Number
27442295111

Customer's ID Number
10189

Not Negotiable

Air Waybill

Issued By

Alaska Air Cargo
ALASKA AIRLINES & HORIZON AIR
P.O. BOX 68900 SEATTLE, WA 98168
800-225-2752 ALASKACARGO.COM

Consignee's Name and Address
Test America Laboratories
5755 8TH STREET E
TACOMA, WA 98498
USA
Tel: 2539222310

Consignee's Account Number
27442464535

Also notify
8/30 - NTFY/JG
Tel:

Issuing Carrier's Agent and City

Accounting Information
10189
BRISTOL ENVIRONMENTAL
111 W 16th Ave
Anchorage, AK 99501
USA

Agent's IATA Code

Account No.

Airport of Departure (Addr. of First Carrier) and Requested Routing
Nome

GoldStreak

To	By First Carrier	To / By		To / By		Currency		WT/VAL		Other		Declared Value For Carriage	Declared Value For Customs
ANC	Alaska Airlines	SEA	AS			USD	PZ	X		X		NVD	NCV

Airport of Destination	Flight/Date	Flight/Date	Amount of Insurance
Seattle	AS 153/29	AS 108/30	XXX

Handling Information
NOA 253-922-2310
KEEP COOL

SCI

No of Pieces	Gross Weight	kg lb	Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Incl. Dimensions or Volume)
3	103.0	L	Q	103.0		AS AGREED	WATER SAMPLES Dims: 23 x 13 x13 x 1 10 x 8 x10 x 1 23 x 13 x13 x 1 GSX PER
3	103.0					AS AGREED	Volume: 4.962

Prepaid
Weight Charge
Collect
AS AGREED

Valuation Charge

Tax

Other Charges
MYC 18.54
SCC 2.06

Total Other Charges Due Agent

Total Other Charges Due Carrier

Shipper certifies that the particulars on the face hereof are correct and that **insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations. I consent to the inspection of this cargo.**

For: BRISTOL ENVIRONMENTAL

Signature of Shipper or his Agent

[ ] THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS

[ ] THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS

Total Prepaid
AS AGREED

Total Collect

29 Aug 2011 15:51 — Executed On (Date)

Nome — at (Place)

Alaska Airlines — Signature of Issuing Carrier or its Agent

027-9360 9821

09/07/2011

Login Sample Receipt Checklist

Client: Bristol Env. Remediation Services LLC

Job Number: 580-28355-1

Login Number: 28355
List Number: 1
Creator: Palmquist, Jill

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	Not needed.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	No VOA rec'd.
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

APPENDIX F

EPA ID Number Notification

From: Erickson.Ofelia@epamail.epa.gov
To: Ellingboe, Tyler; RYANNOGIYUK@YAHOO.COM;
Subject: Native Village of Northeast Cape Advance Copy of EPA ID
Date: Wednesday, July 07, 2010 9:45:03 AM

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101-3140

July 7, 2010

Robert Annogiyuk
PO Box 120
Savoonga, AK 99769

RE: Site EPA ID Number: AKR000203687
Site Name: Native NATIVE VILLAGE OF NORTHEAST CAPE
Site Location: 57 MILES ESE OF SAVOONGA, KITNAGAK BAY; SAVOONGA, AK 99769

Dear Mr. Annogiyuk:

The United States Environmental Protection Agency (EPA) has received your RCRA Subtitle C Site Identification Form (Standard Form 8700-12) requesting that an EPA identification (ID) number be issued for the location described above. This provides you with a written confirmation of your EPA ID number, which is AKR000203687.

Your EPA ID number should be placed on all reports and correspondence with EPA and must be included on shipping manifests when hazardous wastes are moved from a generator's site to another location for storage, treatment or disposal to an EPA permitted Treat/Store/Dispose (TSD) facility. Transporters of hazardous waste must apply for and place on the manifest, their own EPA hazardous waste ID number.

Enclosed is a pamphlet that will give you an overview and basic understanding of the hazardous waste regulations. For complete federal hazardous waste regulations, please refer to Title 40 of the Code of Federal Regulations (CFR), Parts 260 to 299 at http://www.epa.gov/lawsregs/search/40cfr.html. For database information

regarding your EPA ID number, you can go to Envirofacts Data Warehouse. Enclosed is an instruction on how to use the national EPA Envirofacts Data Warehouse. If you wish to search for specific information, go to our main website at www.epa.gov or at EPA Region 10's web site for the Seattle, WA Office, covering the States of Alaska, Idaho, Oregon and Washington at www.epa.gov/r10earth . You will also find helpful information at the back of this letter.

Please feel free to contact me if you have any questions regarding the use of this EPA ID number. I can be reached via e-mail at erickson.ofelia@epa.gov or you can call (206) 553-2583.

Sincerely,

Ofelia S. Erickson
Resource Management & RCRA State Programs Unit

Enclosures (2)

HELPFUL INFORMATION:

FOR ALL FACILITIES:

- You should inactivate your EPA ID number when your facility no longer engages in hazardous waste activities. Please notify us via U.S. mail on your company's letterhead the reason(s) for inactivation and the effective date. Be sure to include the original signature of an authorized person.

- Facility that changed ownership or location must re-notify EPA Region 10 by completing a new RCRA Subtitle C Site Identification Form (Standard Form 8700-12). The form can be downloaded from http://www.epa.gov/epawaste/inforesources/data/form8700/forms.htm#waste . For other changes and subsequent notification, such as the contact person, mailing address, NAICS, hazardous waste activities, etc., we recommend that you use the same form.

- Please mail requests and changes to:

US Environmental Protection Agency, Region 10
Attn: Alaska EPA ID Number Specialist
1200 Sixth Avenue, Suite 900, M/S AWT-122
Seattle, WA 98101

HW GENERATORS: Your EPA ID number is location-specific, and assigned to the physical location where wastes are being generated. EPA ID numbers do not move if a company relocates. Each new owner of the site, if engaging in hazardous waste activities, must re-apply for the ID number prior to their first hazardous waste activity. You will need a new EPA ID number for your new location.

IF YOU ARE ONLY A HW TRANSPORTER: If you transport HW commercially and it is your sole regulated HW activity, your location address must be either your Corporate address or the location from which your HW transporting trucks originate.

COMPANIES THAT BOTH GENERATE AND TRANSPORT HW: Same instructions as HW
generators; your EPA ID number is location-specific.

FACILITIES THAT TREAT/STORE/DISPOSE (TSD) OF HW: This type of HW activity must be issued a RCRA operating permit or interim status by EPA prior to any HW TSD activity. This category of facility is usually a site such as an incinerator permitted to dispose of HW, or a specially constructed landfill permitted to take HW, or a permitted storage facility for HW or HW waste piles undergoing formal closure. Facilities in this category generally must complete the Notification of Regulated Waste Activity Form 8700-12 and the RCRA Part A and B Forms (SF 8700-23 A & B).

WHERE TO FIND ON-LINE ANSWERS TO YOUR RCRA QUESTIONS

Hazardous Waste Questions and Answers: http://waste.custhelp.com

RCRA Online Questions and Answers: http://www.epa.gov/rcraonline/

Ofelia Erickson
U.S. EPA, Region 10
Office of Air, Waste, and Toxics
1200 Sixth Ave, Ste 900
M/S AWT-122
Seattle, WA 98101
Ph-206-553-2583

From: "Ellingboe, Tyler" <tellingboe@bristol-companies.com>

To: Ofelia Erickson/R10/USEPA/US@EPA, <ryannogiyuk@yahoo.com>

Date: 07/06/2010 02:44 PM

Subject: RE: Native Village of Northeast Cape RCRA Subtitle C Site Identification Form

Ofelia,

Please see the attached revised Site ID form. Please let me know if you need anything else.

Respectfully,

Tyler

Tyler Ellingboe

Project Manager/Senior Waste Specialist

Bristol Environmental Remediation Services, LLC

111 W.16th Avenue, Third Floor

Anchorage, AK 99501-5109

Phone : (907) 563-0013

FAX : (907) 563-6713

tellingboe@bristol-companies.com

http://www.bristol-companies.com/

-----Original Message-----

From: Erickson.Ofelia@epamail.epa.gov

[mailto:Erickson.Ofelia@epamail.epa.gov]

Sent: Monday, June 28, 2010 1:49 PM

To: Ellingboe, Tyler; ryannogiyuk@yahoo.com

Subject: Fw: Native Village of Northeast Cape RCRA Subtitle C Site Identification Form

Tyler & Robert,

I received the original form today. Please send me the missing information by e-mail and I will do a pen and ink correction in the original form.

Thanks,

Ofelia

_____

Ofelia Erickson

U.S. EPA, Region 10

Office of Air, Waste, and Toxics

1200 Sixth Ave, Ste 900

M/S AWT-122

Seattle, WA 98101

Ph-206-553-2583

----- Forwarded by Ofelia Erickson/R10/USEPA/US on 06/28/2010 02:49 PM

From: Ofelia Erickson/R10/USEPA/US

To: "Ellingboe, Tyler" <tellingboe@bristol-companies.com>

Date: 06/28/2010 12:03 PM

Subject: Re: Native Village of Northeast Cape RCRA Subtitle C Site Identification

Form

Hi Tyler,

I have reviewed the attached Site ID form. I found some missing information in the form.

Item 4 - County. Since Alaska has no county, you could put the borough for that zip code.

According to my search from the website, it is Nome.

Item 9 - Date became owner and day became owner - Month and day is required.

Please correct the form and mail the original with original signature.

Thanks,

Ofelia

_____

Ofelia Erickson

U.S. EPA, Region 10

Office of Air, Waste, and Toxics

1200 Sixth Ave, Ste 900

M/S AWT-122

Seattle, WA 98101

Ph-206-553-2583

From: "Ellingboe, Tyler" <tellingboe@bristol-companies.com>

To: Ofelia Erickson/R10/USEPA/US@EPA

Date: 06/21/2010 10:58 AM

Subject: Native Village of Northeast Cape RCRA Subtitle C Site Identification Form

Ofelia,

I am helping the Native Village of Savoonga with their NALEMP project located at the Native Village of Northeast Cape site. Additional information regarding the site is listed in the comment section of the attached form.

The original signed copy of the RCRA Subtitle C Site Identification Form will follow in the mail today. Please mail me any correspondence that you may generate as part of this process so that I can scan it into the project file before it gets sent on to the tribe. If you must send the paperwork to the site mailing address listed on the attached form, could you please scan and e-mail me a copy before you send it out. I apologize for the hassle, but I just want a copy before I chance having the paperwork lost once it is sent to the tribe.

Also, I would really appreciate it if you could let me know what the assigned EPA I.D. number will be for the site so that I can start submitting Canadian transit notices for the expected waste streams that we may encounter at the site during the upcoming field work.

Please do not hesitate to contact me with any questions that you may have.

Respectfully,

Tyler

Tyler Ellingboe
Project Manager/Senior Waste Specialist
Bristol Environmental Remediation Services, LLC
111 W.16th Avenue, Third Floor
Anchorage, AK 99501-5109
Phone : (907) 563-0013
FAX : (907) 563-6713
tellingboe@bristol-companies.com
http://www.bristol-companies.com/

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is prohibited. If you are not the intended recipient, please contact the

sender and destroy all copies of the original document. [attachment "EPA

RCRA WASTE NOTIFICATION.pdf" deleted by Ofelia Erickson/R10/USEPA/US]

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disclosure, or distribution is prohibited. If you are not the intended recipient, please

contact the sender and destroy all copies of the original document. [attachment "EPA RCRA WASTE NOTIFICATION Rev 1.pdf" deleted by Ofelia Erickson/R10/USEPA/US]

APPENDIX G

Transportation and Disposal Paperwork

Waste Stream Profile Sheets

Initial Manifest Paperwork Package

Final Disposal Facility Paperwork Package

Waste Tracking Summary Spreadsheet

WASTE STREAM
PROFILE SHEETS

WASTE MANAGEMENT

Generator's Non-hazardous Waste Profile Sheet

Requested Disposal Facility: Columbia Ridge Landfill Profile Number: 109191OR

❑ Renewal for Profile Number: _____ Waste Approval Expiration Date: _____

❑ Check here if there are multiple generating locations for this waste. Attach additional locations.

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: Native Village of Northeast Cape
2. Site Address: 57 Miles ESE of Savoonga, Kitnagak Bay
3. City/ZIP: Savoonga, 99769
4. State: Alaska
5. County: Nome
6. Contact Name/Title: Tyler Ellingboe/Project Manager
7. Email Address: tellingboe@bristol-companies.com
8. Phone: (907) 563-0013 9. FAX: (907) 563-6713
10. NAICS Code: 562910
11. Generator USEPA ID #: AKR000203687
12. State ID# (if applicable): _____

B. Customer Information ❑ same as above

P. O. Number: 49029

1. Customer Name: Bristol Environmental Remediation
2. Billing Address: 111 W. 16th Avenue, Third Floor
3. City, State and ZIP: Anchorage, Alaska, 99501
4. Contact Name: Tyler Ellingboe
5. Contact Email: tellingboe@bristol-companies.com
6. Phone: (907) 563-0013 FAX: (907) 563-6713
7. Transporter Name: NORTHLAND SERVICES, INC.
8. Transporter ID # (if appl.): WAD981773005
9. Transporter Address: P.O. BOX 24527
10. City, State and ZIP: SEATTLE, WASHINGTON, 98124

C. Waste Stream Information

1. DESCRIPTION

a. Common Waste Name: Asbestos Construction Debris

State Waste Code(s): _____

b. Describe Process Generating Waste or Source of Contamination:

Demolition of 1940s era structures

c. Typical Color(s): White/Gray

d. Strong Odor? ❑ Yes ☑ No Describe: _____

e. Physical State at 70°F: ☑ Solid ❑ Liquid ❑ Powder ❑ Semi-Solid or Sludge ❑ Other: _____

f. Layers? ☑ Single layer ❑ Multi- layer ❑ NA

g. Water Reactive? ❑ Yes ☑ No If Yes, Describe: _____

h. Free Liquid Range (%): _____ to _____ ☑ NA(solid)

i. pH Range: 4 to 10 ☑ NA(solid)

j. Liquid Flash Point: ❑ < 140°F ❑ 140°- 199°F ❑ ≥ 200°F ☑ NA(solid)

k. Flammable Solid: ❑ Yes ☑ No

l. Physical Constituents: List all constituents of waste stream - (e.g. Soil 0-80%, Wood 0-20%): ❑ (See Attached)

Constituents (Total Composition Must be ≥ 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. ACM Debris (CAB, transite pipe, ACM sheathed wiring and	100	%	100	%
2.				
3.				
4.				
5.				
6.				

2. ESTIMATED QUANTITY OF WASTE AND SHIPPING INFORMATION

a. ❑ One Time Event ☑ Base ❑ Repeat Event

b. Estimated Annual Quantity: 10 ❑ Tons ☑ Cubic Yards ❑ Drums ❑ Gallons ❑ Other (specify): _____

c. Shipping Frequency: 1 Units per ❑ Month ❑ Quarter ☑ Year ❑ One Time ❑ Other

d. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If yes, answer e.) ☑ Yes ❑ No

e. USDOT Shipping Description (if applicable): NA2212, Asbestos, 9, III

3. SAFETY REQUIREMENTS (Handling, PPE, etc.): Level D

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D. Regulatory Status (Please check appropriate responses)

1. Waste Identification:
   a. Does the waste meet the definition of a USEPA listed or characteristic hazardous waste as defined by 40 CFR Part 261? ❑ Yes ☑ No
      1. If yes, please complete a hazardous waste profile.
   b. Does the waste meet the definition of a state hazardous waste other than identified in D.1.a? ☑ Yes ❑ No
      1. If yes, please complete a hazardous waste profile.
2. Is this waste included in one or more of categories below (Check all that apply)? If yes, attach supporting documentation. ❑ Yes ☑ No
   ❑ Delisted Hazardous Waste ❑ Excluded Wastes Under 40CFR 261.4
   ❑ Treated Hazardous Waste Debris ❑ Treated Characteristic Hazardous Waste
3. Is the waste from a Federal (40 CFR 300, Appendix B) or state mandated clean-up? If yes, see instructions. ❑ Yes ☑ No
4. Does the waste represented by this waste profile sheet contain radioactive material? ❑ Yes ☑ No
   a. If yes, is disposal regulated by the Nuclear Regulatory Commission? ❑ Yes ❑ No
   b. If yes, is disposal regulated by a State Agency for radioactive waste/NORM? ❑ Yes ❑ No
5. Does the waste represented by this waste profile sheet contain Polychlorinated Biphenyls (PCBs)? ❑ Yes ☑ No
   (If yes, list in Chemical Composition - C.1.l)
   a. If yes, are the PCBs regulated by 40 CFR 761? ❑ Yes ❑ No
   b. If yes, is it remediation waste from a project being performed under the Self-Implementing option provided in 40 CFR 761.61(a)? ❑ Yes ❑ No
   c. If yes, were the PCBs imported into the US? ❑ Yes ❑ No
6. Does the waste contain untreated, regulated medical or infectious waste? ❑ Yes ☑ No
7. Does the waste contain asbestos? ☑ Yes ❑ No
   a. If Yes, ☑ Friable ❑ Non Friable
8. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ❑ Yes ☑ No
   a. If yes, does the waste contain <500 ppmw VOHAPs at the point of determination? ❑ Yes ❑ No

E. Generator Certifcation (Please read and certify by signature below)

By signing this Generator's Waste Profile Sheet, I hereby certify that all:

1. Information submitted in this profile and all attached documents contain true and accurate descriptions of the waste material;
2. Relevant information within the possession of the Generator regarding known or suspected hazards pertaining to this waste has been disclosed to WM/the Contractor;
3. Analytical data attached pertaining to the profiled waste was derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules; and
4. Changes that occur in the character of the waste (i.e. changes in the process or new analytical) will be identified by the Generator and disclosed to WM (and the Contractor if applicable) prior to providing the waste to WM (and the contractor if applicable).
5. Check all that apply:
   ❑ a. Attached analytical pertains to the waste. Identify laboratory & sample ID #'s and parameters tested: _____ # Pages: _____
   ❑ b. Only the analysis identified on the attachment pertain to the waste (identify by laboratory & sample ID #'s and parameters tested). Attachment #: _____
   ❑ c. Additional information necessary to characterize the profiled waste has been attached (other then analytical, such as MSDS). Indicate the number of attached pages: _____
   ☑ d. I am an agent signing on behalf of the Generator, and the delegation of authority to me from the Generator for this signature is available upon request.

Certification Signature: Tyler D. Ellingboe Title: Project Manager/Sr. Waste Specialist

Company Name: Bristol Environmental Remediation Services, LLC Name (Print): Tyler Ellingboe

Date: September 15, 2011

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WASTE MANAGEMENT

Generator's Hazardous Waste Profile Sheet

Service Agreement on file? ❑ Yes ❑ No Profile Number OR306102

❑ Check here if there are multiple generating locations for his waste. Attach addition locations.

☑ Check here if a Certificate of Destruction or Disposal is required.

Requested Disposal Facility: Chemical Waste Management (Hazardous Waste Facility)

❑ Renewal for Profile Number: _____ Waste Approval Expiration Date: _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: Native Village of Northeast Cape
2. Site Address: 57 Miles ESE of Savoonga, Kitnagak Bay
3. City/ZIP: Savoonga, 99769
4. State: Alaska
5. County: Nome
6. Contact Name/Title: Tyler Ellingboe/Project Manager
7. Email Address: tellingboe@bristol-companies.com
8. Phone: (907) 563-0013
9. FAX: (907) 563-6713
10. NAICS Code: 562910
11. Generator USEPA ID #: AKR000203687
12. State ID# (if applicable): _____

B. Customer Information ❑ same as above

P. O. Number: _____

1. Customer Name: Bristol Environmental Remediation
2. Billing Address: 111 W. 16th Avenue, Third Floor
3. City, State and ZIP: Anchorage, Alaska, 99501
4. Contact Name: Tyler Ellingboe
5. Contact Email: tellingboe@bristol-companies.com
6. Phone: (907) 563-0013 FAX: (907) 563-6713
7. Transporter Name: NORTHLAND SERVICES, INC.
8. Transporter ID # (if appl.): WAD981773005
9. Transporter Address: P.O. BOX 24527
10. City, State and ZIP: SEATTLE, WASHINGTON, 98124

C. Waste Stream Information

☑ USEPA Hazardous ❑ State Hazardous ❑ TSCA

1. Description

a. Name of Waste: Construction Debris with Lead Based Paint

b. Process Generating Waste:

Building Demolition and Debris Clean-Up

c. Color: Various

d. Strong Odor (describe): None

e. Physical State at 70°F: ☑ Solid ❑ Liquid ❑ Gas ❑ Sludge ❑ Other: _____

f. Layers? ☑ Single layer ❑ Multi- layer

g. Free Liquid Range (%) 0 to 0 Specific Gravity: N/A Viscosity: N/A BTU/lb: > 5,000

h. pH Range: 4 to 10 ☑ NA (Solid)

i. Liquid Flash Point: ❑ < 140°F ❑ 140°- 199°F ❑ ≥ 200°F ☑ NA(solid)

2. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to question f. ☑ Yes ❑ No

a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U).

D008

b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply (40 CFR 268.48)? ❑ Yes ☑ No
(if yes, list in Section C.2.j)

c. Is the waste subject to RCRA Subpart CC Controls (40 CFR 264.1083 & 265.1084)? ❑ ? Click for Add'l Info ❑ Yes ☑ No

1. If no, does the waste meet the organic LDR Exemption? ❑ Yes ☑ No
2. If no, does the waste contain <500 ppm volatile organic (VOC's)? ☑ Yes ❑ No
3. Volatile organic concentration _____ ppm.

d. Is the waste predominately debris subject to the Alternate Debris Standards (40 CFR 268.45)? ☑ Yes ❑ No

e. Is the waste predominately soil subject to the Alternate Soil Treatment Standards (40 CFR 268.49)? ❑ Yes ☑ No

1. If yes, will Underlying Hazardous Constituents apply? (list in C.2.j) ❑ Yes ❑ No

f. Does the waste represented by this profile contain asbestos? ❑ Yes ☑ No

2. If yes: ❑ Friable ❑ Non-Friable

g. Does the waste represented by this profile contain benzene? ❑ Yes ☑ No

1. Is this subject to Benzene Operations Waste NESHAP (40 CFR Part 61 Subpart FF)? ❑ Yes ❑ No
If yes, complete Benzene Waste Operations NESHAP (BWON) questionnaire.

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WASTE MANAGEMENT

Generator's Hazardous Waste Profile Sheet

Profile Number OR306102

C. Waste Stream Information (continued)

h. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ❑ Yes ☑ No

1. If yes, does the waste contain <500 ppm VOHAPs at the point of determination? ❑ Yes ❑ No

i. Does the waste represented by this waste profile sheet contain Polychlorinated Biphenyls (PCBs)? ☑ Yes ❑ No
(If yes, list in Chemical Composition - C.2.j)

1. If yes, are the PCBs regulated by 40 CFR 761? ❑ Yes ☑ No
2. If yes, is it remediation waste from a project being performed under the Self-Implementing option provided in 40 CFR 761.61(a)? ❑ Yes ☑ No
3. If yes, were the PCBs imported into the US? ❑ Yes ☑ No

j. Chemical Composition (List all constituents [includin g halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis): ❑ (See Attached - for entering additional constituents)

Constituents (Total Composition Must be ≥ 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. Wood	99	%	100	%
2. Lead	5	mg/L	10	mg/L
3. Polychlorinated Biphenyls	0	mg/kg	0.37	mg/kg
4.				
5.				
6.				

k. Check any that apply: ❑ Pyrophoric ❑ Water Reactive ❑ OSHA Carcinogen ❑ Shock Sensitive ❑ Oxidizer ❑ Infectious

l. Is the waste subject to controls as a Group 1 wastewater or residual under the Hazardous Organic NESHAP? ❑ Yes ☑ No

1. If yes, is it a Table 8 _____ or Table 9 _____ compound?

m. Does the waste represented by this waste profile sheet contain radioactive material? ❑ Yes ☑ No

1. Is disposal regulated by the Nuclear Regulatory Commission? ❑ Yes ❑ No
2. If NORM, identify isotopes and concentration, _____ pCi/g.

n. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? ❑ Yes ☑ No

1. If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation.

o. Is this a State Hazardous Waste? ❑ Yes ☑ No

1. If yes, please list applicable codes: _____

If NY waste codes B001-B007 apply, please complete question C.2.c on page 1.

D. DOT Information and Shipping Volume

1. Quantity of Waste
   a. ❑ One Time Event ❑ Base ☑ Repeat Event
   b. Estimated Annual Quantity: 200 ❑ Tons ☑ Yards ❑ Drums ❑ Other (specify) _____
   c. Shipping Frequency: Units: 1 Per: ❑ Month ❑ Quarter ☑ Year ❑ One Time ❑ Other _____
2. Shipping Information
   a. Packaging:
      ☑ Roll off/End dump: 20' Open-Top ❑ Other: _____
      ❑ Drum Type/Size: _____ ❑ Vacuum Box
      ❑ Tanker ❑ Super Sack ❑ Tote Bin ❑ Cubic Yard Boxes
   b. Is this a U.S. Department of Transportation (USDOT) Hazardous Material (If no, skip c, d and e)? ☑ Yes ❑ No
   c. Reportable Quantity (lbs.; kgs.): 10 d. Primary/Subsidiary Hazard Class(es)/ID#: 9/UN3077
   e. USDOT Shipping Name: Waste Environmentally Hazardous Substances, Solid, n.o.s. PG: III

E. Generator Certification (Please read and certify by signature below)

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this wastestream. Any sample submitted is a representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile. All revelant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste will be disclosed to the contractor. All changes which occur in the character of the waste will be identified by the Generator and be disclosed to the Contractor prior to providing the waste to the Contractor.

Certification Signature: Tyler Ellingboe Title: Project Manager/Senior Waste

Company Name: Bristol Environmental Remediation Services, LLC Name (Print): Tyler Ellingboe

Date: September 6, 2011

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WASTE MANAGEMENT

HAZARDOUS WASTE PROFILE ADDENDUM

Profile Number: OR306102

F. Addendum to Waste Stream Information

1. If this is USEPA hazardous waste (40 CFR Part 261), identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U):

2. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Constituents *(Total Composition Must be > 100%)*	Lower Range	Unit of Measure	Upper Range	Unit of Measure
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

3. Is this a State Hazardous Waste? ❑ **Yes** ❑ **No**

If yes, please list applicable codes

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WASTE MANAGEMENT

Generator's Hazardous Waste Profile Sheet

Service Agreement on file? ☐ Yes ☐ No Profile Number OR306118

☐ Check here if there are multiple generating locations for his waste. Attach addition locations.

☑ Check here if a Certificate of Destruction or Disposal is required.

Requested Disposal Facility: Chemical Waste Management (Hazardous Waste Facility)

☐ Renewal for Profile Number: _____ Waste Approval Expiration Date: _____

A. Waste Generator Facility Information (must reflect location of waste generation/origin)

1. Generator Name: Native Village of Northeast Cape
2. Site Address: 57 Miles ESE of Savoonga, Kitnagak Bay
3. City/ZIP: Savoonga, 99769
4. State: Alaska
5. County: Nome
6. Contact Name/Title: Tyler Ellingboe/Project Manager
7. Email Address: tellingboe@bristol-companies.com
8. Phone: (907) 563-0013
9. FAX: (907) 563-6713
10. NAICS Code: 562910
11. Generator USEPA ID #: AKR000203687
12. State ID# (if applicable): _____

B. Customer Information ☐ same as above

P. O. Number: _____

1. Customer Name: Bristol Environmental Remediation
2. Billing Address: 111 W. 16th Avenue, Third Floor
3. City, State and ZIP: Anchorage, Alaska, 99501
4. Contact Name: Tyler Ellingboe
5. Contact Email: tellingboe@bristol-companies.com
6. Phone: (907) 563-0013 FAX: (907) 563-6713
7. Transporter Name: NORTHLAND SERVICES, INC.
8. Transporter ID # (if appl.): WAD981773005
9. Transporter Address: P.O. BOX 24527
10. City, State and ZIP: SEATTLE, WASHINGTON, 98124

C. Waste Stream Information

☑ USEPA Hazardous ☐ State Hazardous ☐ TSCA

1. Description
   a. Name of Waste: Burner Ash
   b. Process Generating Waste: Burning of Wood Debris
   c. Color: Gray
   d. Strong Odor (describe): None
   e. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Gas ☐ Sludge ☐ Other: _____
   f. Layers? ☑ Single layer ☐ Multi- layer
   g. Free Liquid Range (%) 0 to 0 Specific Gravity: N/A Viscosity: N/A BTU/lb: < 5,000
   h. pH Range: 4 to 10 ☑ NA (Solid)
   i. Liquid Flash Point: ☐ < 140°F ☐ 140°- 199°F ☐ ≥ 200°F ☑ NA(solid)
2. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to question f. ☑ Yes ☐ No
   a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U).
   D008
   b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply (40 CFR 268.48)? ☑ Yes ☐ No
   (if yes, list in Section C.2.j)
   c. Is the waste subject to RCRA Subpart CC Controls (40 CFR 264.1083 & 265.1084)? ☐ ? Click for Add'l Info ☐ Yes ☑ No
      1. If no, does the waste meet the organic LDR Exemption? ☐ Yes ☑ No
      2. If no, does the waste contain <500 ppm volatile organic (VOC's)? ☑ Yes ☐ No
      3. Volatile organic concentration 0 ppm.
   d. Is the waste predominately debris subject to the Alternate Debris Standards (40 CFR 268.45)? ☐ Yes ☑ No
   e. Is the waste predominately soil subject to the Alternate Soil Treatment Standards (40 CFR 268.49)? ☐ Yes ☑ No
      1. If yes, will Underlying Hazardous Constituents apply? (list in C.2.j) ☐ Yes ☐ No
   f. Does the waste represented by this profile contain asbestos? ☐ Yes ☑ No
      2. If yes: ☐ Friable ☐ Non-Friable
   g. Does the waste represented by this profile contain benzene? ☐ Yes ☑ No
      1. Is this subject to Benzene Operations Waste NESHAP (40 CFR Part 61 Subpart FF)? ☐ Yes ☐ No
      If yes, complete Benzene Waste Operations NESHAP (BWON) questionnaire.

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WASTE MANAGEMENT

Generator's Hazardous Waste Profile Sheet

Profile Number OR306118

C. Waste Stream Information (continued)

h. Is this profile for remediation waste from a facility that is a major source of Hazardous Air Pollutants (Site Remediation NESHAP, 40 CFR 63 subpart GGGGG)? ❑ Yes ☑ No

1. If yes, does the waste contain <500 ppm VOHAPs at the point of determination? ❑ Yes ❑ No

i. Does the waste represented by this waste profile sheet contain Polychlorinated Biphenyls (PCBs)? ❑ Yes ☑ No
(If yes, list in Chemical Composition - C.2.j)

1. If yes, are the PCBs regulated by 40 CFR 761? ❑ Yes ❑ No
2. If yes, is it remediation waste from a project being performed under the Self-Implementing option provided in 40 CFR 761.61(a)? ❑ Yes ❑ No
3. If yes, were the PCBs imported into the US? ❑ Yes ❑ No

j. Chemical Composition (List all constituents [includin g halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis): ❑ (See Attached - for entering additional constituents)

Constituents (Total Composition Must be ≥ 100%)	Lower Range	Unit of Measure	Upper Range	Unit of Measure
1. Ash	75	%	100	%
2. Rocks/Nails	0	%	25	%
3. Lead	0	mg/L	10	mg/L
4. Chromium	0	mg/L	0.69	mg/L
5.				
6.				

k. Check any that apply: ❑ Pyrophoric ❑ Water Reactive ❑ OSHA Carcinogen ❑ Shock Sensitive ❑ Oxidizer ❑ Infectious

l. Is the waste subject to controls as a Group 1 wastewater or residual under the Hazardous Organic NESHAP? ❑ Yes ☑ No

1. If yes, is it a Table 8 _____ or Table 9 _____ compound?

m. Does the waste represented by this waste profile sheet contain radioactive material? ❑ Yes ☑ No

1. Is disposal regulated by the Nuclear Regulatory Commission? ❑ Yes ❑ No
2. If NORM, identify isotopes and concentration, _____ pCi/g.

n. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? ❑ Yes ☑ No

1. If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation.

o. Is this a State Hazardous Waste? ❑ Yes ☑ No

1. If yes, please list applicable codes: _____

If NY waste codes B001-B007 apply, please complete question C.2.c on page 1.

D. DOT Information and Shipping Volume

1. Quantity of Waste
   a. ❑ One Time Event ❑ Base ☑ Repeat Event
   b. Estimated Annual Quantity: 50 ❑ Tons ☑ Yards ❑ Drums ❑ Other (specify) _____
   c. Shipping Frequency: Units: 1 Per: ❑ Month ❑ Quarter ☑ Year ❑ One Time ❑ Other _____
2. Shipping Information
   a. Packaging:
      ☑ Roll off/End dump: 20' open top or 7 cubic yard supersack ❑ Other: _____
      ❑ Drum Type/Size: _____ ❑ Vacuum Box
      ❑ Tanker ☑ Super Sack ❑ Tote Bin ❑ Cubic Yard Boxes
   b. Is this a U.S. Department of Transportation (USDOT) Hazardous Material (If no, skip c, d and e)? ☑ Yes ❑ No
   c. Reportable Quantity (lbs.; kgs.): 10 d. Primary/Subsidiary Hazard Class(es)/ID#: 9/3077
   e. USDOT Shipping Name: Waste Environmentally Hazardous Substances, Solid, n.o.s. PG: III

E. Generator Certification (Please read and certify by signature below)

I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this wastestream. Any sample submitted is a representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile. All revelant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste will be disclosed to the contractor. All changes which occur in the character of the waste will be identified by the Generator and be disclosed to the Contractor prior to providing the waste to the Contractor.

Certification Signature: _____ Title: Project Manager/Sr. Waste Specialist

Company Name: Bristol Environmental Remediation Services, LLC Name (Print): Tyler Ellingboe

Date: September 7, 2011

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HAZARDOUS WASTE PROFILE ADDENDUM

Profile Number: OR306118

F. Addendum to Waste Stream Information

1. If this is USEPA hazardous waste (40 CFR Part 261), identify ALL USEPA listed and characteristic waste code numbers (D, F, K, P, U):

2. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Constituents *(Total Composition Must be > 100%)*	Lower Range	Unit of Measure	Upper Range	Unit of Measure
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

3. Is this a State Hazardous Waste? ❑ **Yes** ❑ **No**

If yes, please list applicable codes

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INITIAL MANIFEST
PAPERWORK PACKAGE

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: AKR000203687

Manifest Document No.: ACN01

2. Page 1 of 2

3. Generator's Name and Mailing Address: Native Village of Northeast Cape
P.O. Box 120, Attn: Savoonga IRA Council
Savoonga, AK 99769

4. Generator's Phone (907 984-6414

5. Transporter 1 Company Name: Northland Services, Inc.

6. US EPA ID Number: WAD 981773005

A. State Transporter's ID

B. Transporter 1 Phone: (800) 426-3113

7. Transporter 2 Company Name: Roadlink

8. US EPA ID Number: WAH 000016683

C. State Transporter's ID

D. Transporter 2 Phone: (206) 903-8300

9. Designated Facility Name and Site Address: Columbia Ridge Landfill & Recycling Center
18177 Cedar Springs Lane
Arlington, OR 97812-6512

10. US EPA ID Number: ORD987173457

E. State Facility's ID

F. Facility's Phone: (541) 454-2030

GENERATOR

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
HM				
a. X RQ, NA2212, Asbestos, 9, III, RQ = 1 pound	5	DM	1900	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

a) ~~1091910R ACM Construction debris; Container #WMXU6310~~
Container Type: 20' open top

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Please mail ~~ORIGINAL~~ ORIGINAL Manifest and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501
For 24-hour emergency response, call 1-800-424-9300

NON-HAZARDOUS WASTE

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Tyler Ellingboe On Behalf of Savoonga IRA Council

Signature: Tyler S. Ellingboe

Date: Month 09 Day 23 Year 11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name

Signature

Date: Month Day Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039.

~~UNIFORM~~ NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.	Manifest Document No.	22. Page	Information in the shaded areas is not required by Federal law.
AKR000203687	ACM01	2 of 2	

23. Generator's Name: Native Village of Northeast Cape

L. State Manifest Document Number:

M. State Generator's ID:

24. Transporter 3 Company Name: Union Pacific Railroad
25. US EPA ID Number: NED001792910
N. State Transporter's ID:
O. Transporter's Phone: (402) 544-5000

26. Transporter Company Name: Columbia Ridge Landfill
27. US EPA ID Number: ORD987173457
P. State Transporter's ID:
Q. Transporter's Phone: (541) 454-2030

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	29. Containers No.	29. Containers Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.							
b.							
c.							
d.							
e.							
f.							
g.							
h.							
i.							

GENERATOR

S. Additional Descriptions for Materials Listed Above: For Transportation Only

T. Handling Codes for Wastes Listed Above:

32. Special Handling Instructions and Additional Information:

TRANSPORTER

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

35. Discrepancy Indication Space:

ASN 4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE! If you have questions, contact your local DEQ Regional Office in Portland at (503) 229-5364, Salem at (503) 378-8240 ext. 272, Medford at (541) 776-6010 ext. 235, or Bend at (541) 388-6146 ext. 226, **OR** call (800) 452-4011 for the location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Native Village of Northeast Cape
   57 Miles ESE of Savoonga, Kitnagak Bay (Street) Savoonga AK (City/State) Nome (County) 99769 (Zip)
   Contact person: Tyler Ellingboe Phone: (907) 563-0013
2. Operator's name and address: Savoonga IRA Council Phone: (907) 984-6414
   P.O. Box 120 (Street) Savoonga AK (City/State) Nome (County) 99769 (Zip)
3. Waste disposal site: Columbia Ridge Landfill Phone: (541) 454-2030
   18177 Cedar Springs Lane (Street) Arlington, OR (City/State) (County) 97812-6512 (Zip)
4. Describe asbestos materials: ACM Construction Debris (CAB, transite pipe, wiring, hoses)
5. Containers: Number: 5 Type: 85 gallon steel Drum
6. Total quantity (cubic yards): 4
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.
   Name: Tyler Ellingboe on Behalf of Savoonga IRA Council Company: Native Village of Savoonga IRA Council
   Signature: Tyler D Ellingboe Date: September 23, 2011

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: _____ Company: Northland Services, Inc.
   Address: P.O. Box 24527 Seattle, WA 98124 Phone: (800) 426-3113
   Signature: _____ Date: _____
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: _____ Company: Roadlink
   Address: 3433 Airport Way S. #A Seattle, WA 98134 Phone: (206) 903-8300
   Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: _____
    Name and Title: _____ Date: _____
    Signature: _____ Phone: _____
11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

(Revised 6/03)

ASN 4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE! If you have questions, contact your local DEQ Regional Office in Portland at (503) 229-5364, Salem at (503) 378-8240 ext. 272, Medford at (541) 776-6010 ext. 235, or Bend at (541) 388-6146 ext. 226, **OR** call (800) 452-4011 for the location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Native Village of Northeast Cape
   57 miles ESE of Savoonga, Kitnagak Bay Savoonga, AK Nome 99769
   Street City/State County Zip
   Contact person: Tyler Ellingboe Phone: (907) 563-0013
2. Operator's name and address: Savoonga IRA Council Phone: (907) 984-6414
   P.O.Box 120 Savoonga, AK Nome 99769
   Street City/State County Zip
3. Waste disposal site: Columbia Ridge Landfill Phone: (541) 454-2030
   18177 Cedar Springs Lane Arlington, OR 97812-6512
   Street City/State County Zip
4. Describe asbestos materials: ACM Construction Debris (CAB, Transite Pipe, wiring, hoses)
5. Containers: Number: 5 Type: 85 DM
6. Total quantity (cubic yards): 4
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.
   Name: Tyler Ellingboe On Behalf of Savoonga IRA Council Company: Native Village of Savoonga IRA Council
   Signature: Tyler S Ellingboe Date: September 23, 2011

TRANSPORTER(S):

8. Transporter #3: (Acknowledgment of receipt of materials)
   Agent: _____ Company: Union Pacific Railroad
   Address: 1400 Douglas Street Omaha, NE 68179 Phone: (402) 544-5000
   Signature: _____ Date: _____
9. Transporter #4: (Acknowledgment of receipt of materials)
   Agent: _____ Company: Columbia Ridge Landfill
   Address: 18177 Cedar Springs Lane Arlington OR 97812-6512 Phone: (541) 454-2030
   Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: _____
    Name and Title: _____ Date: _____
    Signature: _____ Phone: _____
11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

(Revised 6/03)

MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

Movement Document / Manifest Reference No. / N° de référence du document de mouvement/manifeste: **9209496-0**

A Generator / consignor / Producteur / expéditeur

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial (1): AKR000203687

Company name / Nom de l'entreprise: Native Village of Northeast Cape

Mailing address / Adresse postale: IRA Council / Savoonga NA EMP P.O. Box 120 | City / Ville: Savoonga | Province: AK | Postal code / Code postal: 99769

E-mail / Courrier électronique: ryannagiyuk@yahoo.com | Tel. No. / N° de tél.: 907 984-6414

Shipping site address / Adresse de lieu de l'expédition: 57 Miles ESE of Savoonga, Kitnagak Bay

City / Ville: Savoonga | Province: AK | Postal code / Code postal: 99769

Intended Receiver / consignee / Réceptionnaire / destinataire prévu (2): Columbia Ridge Landfill + Recycling Center

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial: ORD089452353

Mailing address / Adresse postale: same as below | City / Ville | Province | Postal code / Code postal

E-mail / Courrier électronique: gfisher@wm.com | Tel. No. / N° de tél.: 541 454 2030

Receiving site address / Adresse de lieu de l'expédition: 18177 Cedar Springs Lane

City / Ville: Arlington | Province: OR | Postal code / Code postal: 97812

B Carrier / Transporteur

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial (23): WAD981773005

Company name / Nom de l'entreprise: Northland Services, Inc.

Mailing address / Adresse postale: P.O. Box 24527 | City / Ville: Seattle | Province: WA | Postal code / Code postal: 98124

E-mail / Courrier électronique: randyp@northlandservices.com | Tel. No. / N° de tél.: 800 426-3113

Vehicle / Véhicule	Registration No. / N° d'immatriculation	Prov. (24)
Trailer - Rail car No. 1 / 1re remorque - wagon		
Trailer - Rail car No. 2 / 2e remorque - wagon		

Port of entry / Point d'entrée: Dixon Entrance (Customs Authority use only) | Port of exit / Point de sortie: Strait of San Juan de Fuca (25)

Carrier Certification : *I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct.*
Attestation du transporteur : *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.* (26)

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): | Tel. No. / N° de tél.: ( )

Year / Année | Month / Mois | Day / Jour | Signature:

C Receiver / consignee / Réceptionnaire / destinataire

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés (27)

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial (28)

Receiver / consignee information same as in Part A / Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A
☒ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville | Province | Postal code / Code postal

E-mail / Courrier électronique | Tel. No. / N° de tél. ( )

Receiving site address / Adresse de lieu de destination

Date received / Date de réception: Year / Année | Month / Mois | Day / Jour | Time / Heure ☐ A.M. ☐ P.M. (29)

If waste or recyclable material to be transferred, specify intended company name/ Si les déchets ou matières recyclables doivent être transférés, préciser le nom du destinataire (30)

Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

(i)	Prov. code / Code prov. (3)	Shipping name / Appellation réglementaire (4)	Class / Classe Sub. class(es) / Classe(s) sub. (5)	UN No. / N° NU (6)	Packing / risk gr. / Gr. d'emballage/ de risque (7)	Quantity shipped / Quantité expédiée	Units / L or / ou Kg / Unités (8)	Packaging/Contenant No. / N° (9)	Codes Int– ext.	Phys. state / État phys. (10)
(i)	N/A	RQ, Asbestos Blue	9	UN 2212	II	862	KG	05	01	S
(ii)										
(iii)										
(iv)										

Quantity received / Quantité reçue	Units / L or / ou kg / Unités (31)	Comments / Commentaires (32)	Handling Code / Code de manutention (33)	Shipment / Envoi Accepted / Accepté (34)	Shipment / Envoi Refused / Refusé (34)	Decont. (35) Pack. Cont.	Decont. (35) Veh. Véh

Notice No. / N° de notification (11)	Notice Line No / N° de ligne de la notification	Shipment / Envoi (12)	Of / De	D or R code / Code É ou R (13)	C code / Code C (14)	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE (15)	H code / Code H (16)	Y code / Code Y (17)	National code in country of / Code du pays: Export / Exportation (18)	Import / Importation	Customs code(s) / Code(s) de douanes (19)
(i) 527834	1	1	10	D5	C25	A2050	H11	Y36	USA	USA	2524.90.0000
(ii)											
(iii)											
(iv)											

International use only

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) (36)

Receiver / consignee certification : *I certify that the information contained in Part C is correct and complete. /* ***Attestation du réceptionnaire / destinataire :*** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) (37)

Signature | Tel. No. / N° de tél. ( )

Special handling / Manutention spéciale (22): For 24-Hour Emergency Response Call 1-800 424-9300
☐ Attached / Ci-joint ☒ As follows / Ci-contre :

Generator / consignor certification: *I certify that the information contained in Part A is correct and complete.*
Attestation du producteur / expéditeur: *J'atteste que tous les renseignements à la partie A sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie): Tyler Ellingboe | Signature: Tyler Ellingboe | Tel. No. / N° de tél. (20): 907 563-0013

Date shipped / Date d'expédition (21): Year / Année | Month / Mois | Day / Jour | Time / Heure ☐ A.M. ☐ P.M. | Scheduled arrival date / Date d'arrivée prévue: Year / Année | Month / Mois | Day / Jour

MOE 04-1917 (06/05)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 1 (white / blanche)

Environment Canada / Environnement Canada

NOTICE – NOTIFICATION

Notice Reference No.: / Nº de référence de la notification :	Page : 1
527834	of / de : 1

Administrative form for proposed movements of hazardous wastes or hazardous recyclable materials
Formulaire administratif en vue de projets d'envois de déchets dangereux et de matières recyclables dangereuses

1 OPTION Indicate the option that applies to this notice. / Indiquez l'option qui s'applique à cette notification.
☑ Disposal / Élimination ☐ Recycling / Recyclage ☐ Recycling, Pre-approved Facility / Recyclage, Installation approuvée au préalable

2 EXPORTER OR FOREIGN EXPORTER / EXPORTATEUR OU EXPÉDITEUR ÉTRANGER

Registration Number: / Nº d'immatriculation : AKR000203687

Name: / Nom : NATIVE VILLAGE OF NORTHEAST CAPE

Address: / Adresse :
Native Village of Savoonga
IRA Council/Savoonga NALEMP
P.O. Box 160
Savoonga, Alaska
99769

Shipping Site Address: / Adresse du site d'envoi :
Native Village of Northeast Cape
57 Miles ESE of Savoonga,
Kitnagak Bay
Savoonga, Alaska
99769

Tel. No.: / Nº de tél. : (907) 984-6414
Fax No.: / Nº de téléc. : (907) 984-6027
E-mail address: / Adresse électronique : ryannogiyuk@yahoo.com
Contact person: / Personne ressource : ROBERT ANNOGIYUK
Name of Insurance Company: / Nom de l'assureur : FEDERAL TRIBE
Policy No.: / Nº de Police : SELF-INSURED

3 FOREIGN RECEIVER OR IMPORTER / DESTINAIRE ÉTRANGER OU IMPORTATEUR

Registration Number: / Nº d'immatriculation : ORD089452353

Name: / Nom : Columbia Ridge Recycling & Landfill

Address: / Adresse :
18177Cedar Springs Lane
Arlington, OR 97812

Receiving Site Address: / Adresse du site de réception :
18177 Cedar Springs Lane
Arlington, OR 97812

Tel. No.: / Nº de tél. : (541) 454-2030
Fax No.: / Nº de téléc. : (541) 454-3312
E-mail address: / Adresse électronique : GFISHER@WM.COM
Contact Person: / Personne ressource : GARY FISHER
Name of Insurance Company: / Nom de l'assureur : ACE American Insurance Company
Policy No.: / Nº de Police : HDO G225524937

4 AUTHORIZED CARRIER / TRANSPORTEUR AGRÉÉ

Registration Number: / Nº d'immatriculation : WAD981773005

Name: / Nom : NORTHLAND SERVICES, INC.

Address: / Addresse :
P.O. BOX 24527
SEATTLE, WA 98124

Modes of Transport: / Moyens de transport :
☑ Road/Route
☑ Rail/Rail
☑ Marine/Mer
☐ Air/Air

If other authorized carriers used, attach a list.
S'il y a d'autres transporteurs agréés, annexez une liste.
☑ Attached / ci-joint

Tel. No.: / Nº de tél. : (800) 426-3113
Fax No.: / Nº de téléc. : (206) 767-5579
E-mail address: / Adresse électronique : randyp@northlandservices.com
Contact person: / Personne ressource : RANDY PICKETT
Name of Insurance Company: / Nom de l'assureur : XL Specialty Insurance Company
Policy No.: / Nº de Police : UM00018388EL10A

5 AUTHORIZED FACILITY / INSTALLATION AGRÉÉE (IF OPERATION D13, D14, D17, R12 R13, R16) / (DANS LE CAS DES OPÉRATIONS D13, D14, D17, R12, R13 OU R16)

Registration Number: / Nº d'immatriculation :

Name: / Nom :

Address: / Adresse :

Receiving Site Address: / Adresse du site de réception :

☐ Attached / ci-joint

Line No.: / Nº de la ligne. :
D/R code: / Code D/R :
Tel. No.: / Nº de tél. : ( )
Fax No.: / Nº de téléc. : ( )
E-mail address: / Adresse électronique :
Contact person: / Personne ressource :

SHIPPING DETAILS – DÉTAILS SUR LES ENVOIS

6 NUMBER OF SHIPMENTS / NOMBRE D'ENVOIS : 10

7 PORT OF EXIT / ENTRY OR CUSTOMS OFFICE(S) / BUREAU(X) DE DOUANE OU POINT DE SORTIE/D'ENTRÉE : Dixon Entrance/ de Fuca Strait of San Juan ☐ Attached / ci-joint

8 FIRST AND LAST SHIPMENTS / PREMIER ET DERNIER ENVOIS :

	Y - A	M - M	D - J
First / Premier	11	09	01
Last / Dernier	12	08	25

9 TRANSIT COUNTRY(IES) / PAYS DE TRANSIT Country / Pays : CANADA Length of Stay / Durée du transit : 1-3 DAYS ☐ Attached / ci-joint

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX - (For additional hazardous information please see Appendix to the Notice. / Veuillez consulter l'annexe à la notification pour des renseignements dangereux supplémentaires.)

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
1) Q15//D5//S41//C25//H11//A830//Y36	A2050	UN2212	9	50,000 ☑ kg ☐ L	II

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / Nº d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre
2524.90.00 00	N/A	N/A	D5 - SPECIALLY ENGINEERED LANDFILL

11 EXPORTS OF HAZARDOUS WASTE: Options considered for reducing or phasing out of the waste and the reason the disposal is happening outside of Canada
EXPORTATION DE DÉCHETS DANGEREUX : Solutions envisagées pour réduire ou pour supprimer les déchets et les raisons pour l'élimination en lieu étranger
N/A

12 STATEMENT OF PERSON SUBMITTING THE NOTICE: In the case of an export or import, the contract(s) referred to in paragraphs 9(f) or 16(e) is/are in force and if the waste or material cannot be disposed of or recycled in accordance with the export or import permit, the exporter or importer will undertake alternative arrangements required under the Regulations or will return the waste or material to the facility from which it was imported in accordance with s. 34 or 35. In the case of an export, import or transit, the insurance policy will cover the period specified by the Regulations and the information in the notice is complete and correct.

DÉCLARATION PAR L'AUTEUR DE LA NOTIFICATION : Dans le cas d'une exportation ou d'une importation, le(s) contrat(s) visé(s) aux alinéas 9f) ou 16e) est (sont) en vigueur et si les déchets ou les matières ne peuvent être éliminés ou recyclés conformément au permis d'exportation ou d'importation, l'exportateur ou l'importateur mettra en oeuvre les mesures d'arrangements alternatifs prévues au Règlement ou à les ramener à l'installation d'origine conformément aux articles 34 ou 35. Dans le cas d'une exportation, d'une importation ou d'un transit, la police d'assurance sera en vigueur pour la période visée par le Règlement, et les renseignements figurant à la notification sont complets et exacts.

Name: / Nom :	Signature:	Date:	Tel. No.: / Nº de tél. :
TYLER ELLINGBOE	Tyler S. Ellingboe	JULY 8, 2011	(907) 563-0013

Additional Transporter List

Transit Notice #: 527834

Registration #:	WAH000016683
Transporter Name:	Roadlink
Transporter Address:	3433 Airport Way South #A Seattle, WA 98134
Phone Number:	(206) 903-8300
Fax Number:	(206) 903-1984
Contact Person:	Bobbi Stanworth
E-Mail Address:	RLTSSeattle@roadlink.com
Name of Insurance Company:	ACE American Insurance Company
Policy Number:	HDO G25525607
Mode of Transport:	Road
Registration #:	NED001792910
Transporter Name:	Union Pacific Railraod
Transporter Address:	1400 Douglas Street Omaha, NE 68179
Phone Number:	(402) 544-5000
Fax Number:	(402) 501-3019
Contact Person:	Jeff Dukes
E-Mail Address:	jadukes@up.com
Name of Insurance Company:	Self-Insured
Policy Number:	Self-Insured
Mode of Transport:	Rail

Environment Canada / Environnement Canada

Tyler Ellingboe
Bristol Environmental Remediation Services LLC.
111 W. 16th Avenue, Third Floor
Anchorage, Alaska
United States of America
99501-5109

27 July 2011 / 27 juillet 2011

TRANSIT PERMIT FOR HAZARDOUS WASTE
Issued Under Subparagraph 185(1)(*b*)(ii) of the *Canadian Environmental Protection Act, 1999*
PERMIS DE TRANSIT POUR DÉCHET DANGEREUX
Délivré en vertu du sous-alinéa 185(1)*b*)(ii) de la *Loi canadienne sur la protection de l'environnement (1999)*

File Number / No. de dossier : 11/00071/TRS

This TRANSIT PERMIT is issued to Bristol Environmental Remediation Services LLC. in accordance with subparagraph 185(1)(*b*)(ii) of the *Canadian Environmental Protection Act, 1999* (CEPA 1999) for the transit of the hazardous waste described below from the United States of America through Canada on route to the United States of America.

Le présent PERMIS DE TRANSIT est délivré à Bristol Environmental Remediation Services LLC. en vertu du sous-alinéa 185(1)(*b*)(ii) de la *Loi canadienne sur la protection de l'environnement (1999)* (LCPE (1999)) pour le transit du déchet dangereux décrit ci-après des États-Unis d'Amérique par le Canada à destination des États-Unis d'Amérique.

This TRANSIT PERMIT is valid for the period of 27 July 2011 to 26 July 2012.

Ce PERMIS DE TRANSIT est valide du 27 juillet 2011 au 26 juillet 2012.

Waste Description for 1 Hazardous Waste/
Description de déchet pour 1 déchet dangereux

1) Q15//D05//S41//C25//H11//A830//Y36
PIN / NIP : UN2212
Class / Classe : 9
Quantity / Quantité : 50,000 kg
HS Code / Code HS : 2524.90.00.00
Notice / Notification : 527834
EIHWHRMR ID # /
No. d'identité REIDDMRD : N/A
Basel Code / Code Bâle : A2050
Packing Group / Groupe d'emballage : II

From / De:

To / À:

Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska
United States of America
99769

Columbia Ridge Recycling & Landfill
18177 Cedar Springs Lane
Arlington, Oregon
United States of America
97812

3 Authorized Carriers / 3 Transporteurs Agréés

Northland Services Inc.
Union Pacific Railroad
Roadlink

2 Ports of Entry, Exit and Customs Offices / 2 Points d'entrée, de sortie et bureaux de douane

EN:Dixon Entrance (Marine Movements)

EX:Exit from the Strait of Juan de Fuca (Marine Movements)

Please take note that it is your responsibility to ensure that the requirements set out in the *Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations* (EIHWHRMR) made pursuant to CEPA 1999 are complied with during the time of the movement of the hazardous waste described in this permit while it is transiting through Canada. This includes, but is not limited to, ensuring that the authorized carriers of the hazardous waste described in this permit are insured in accordance with section 37 of the EIHWHRMR.

Veuillez prendre note qu'il vous incombe de vous assurer que vous respectez, lors du transit du déchet dangereux décrit dans ce permis transitant le Canada, les exigences établies dans le *Règlement sur l'exportation et l'importation de déchets dangereux et de matières recyclables dangereuses* (REIDDMRD) pris en vertu de la LCPE (1999). Ces exigences comprennent notamment l'obligation de vous assurer que les transporteurs agréés du déchet dangereux décrit dans ce permis, détiennent une police d'assurance conformément à l'article 37 du REIDDMRD.

It is your responsibility to ensure that you are in compliance with all other applicable Canadian laws.

Vous devez vous assurer de respecter toutes les autres lois canadiennes applicables.

The transit of hazardous wastes or hazardous recyclable materials, in violation of CEPA 1999 or the EIHWHRMR, may be prosecuted as an offence under section 272 or 273 of CEPA 1999.

Tout transit de déchets dangereux ou de matières recyclables dangereuses qui contrevient à la LCPE (1999) ou au REIDDMRD peut entraîner une poursuite pénale en vertu de l'article 272 ou 273 de la LCPE (1999).

Signed for and on behalf of the Minister of the Environment /
Signé au nom du ministre de l'Environnement



Tim Gardiner
Director / Directeur
Waste Reduction & Management / Réduction et gestion des déchets
Public and Resources Sectors / Secteurs publics et des ressources
Environment Canada / Environnement Canada

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: AKR000203687
2. Page 1 of: 2
3. Emergency Response Phone: (800) 424-9300
4. Manifest Tracking Number: 004376101 FLE

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907)984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc.
U.S. EPA ID Number: WAD 981773005

7. Transporter 2 Company Name: Roadlink
U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address
CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, Waste Environmentally hazardous Substances, solid, N.O.S. (Lead), 9, PGIII, RQ RQ = 10 pounds	001	cm	9,780	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) OR306102 - Construction debris with lead; ERG #171; Container # WMXU6079
Type: 20' open-top Conex; please mail original manifest scal ticket, and CD to:
Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe on Behalf of Savoonga IRA Council
Signature: Tyler J. Ellingboe
Month: 09 Day: 23 Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376101FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

Generator Name: Native Village of Northeast Cape

Profile Number: OR306102 Manifest Number: 004376101FLE

Ref. #	2. US EPA HAZARDOUS WASTE CODE(s)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		✓	A
2.				
3.				
4.				

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: ☑ Non-Wastewater ☐ Wastewater
   For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: ☑
2. In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
   - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here: ☐
3. In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
4. In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
5. Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
   - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: ☐
   - If UHCs are applicable, but none are present at the point of generation, check here: ☑
   - If incineration facility will monitor for all constituents of concern (except dioxins), check here: ☐

MANAGEMENT METHODS

A RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Mgr./Sr. Waste Specialist

Signature: Tyler T. Ellingboe Date: 9/23/11

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
AKR000203687	2	(800) 424-9300	004376102 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name
Northland Services, Inc.

U.S. EPA ID Number
WAD 981773005

7. Transporter 2 Company Name
Roadlink

U.S. EPA ID Number
WAH000016683

8. Designated Facility Name and Site Address CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643

U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, Waste Environmentally hazardous Substances, solid, N.O.S. (Lead), 9, PGIII, RQ RQ = 10 pounds	001	cm	6,572	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) OR306102 - Construction debris with lead; ERG #171; Container # XXXXXXXXXX WMXU6023
Type: 20' open-top Conex; please mail original manifest scal ticket, and CD to:
Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe On Behalf of Savoonga IRA Council
Signature: Tyler G. Ellingboe
Month: 09 Day: 23 Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Transporter 1				
Transporter 2				

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376102FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

WASTE MANAGEMENT

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

Generator Name: Native Village of Northeast Cape

Profile Number: OR306102 Manifest Number: 004376102FLE

Ref. #	2. US EPA HAZARDOUS WASTE CODE(s)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		✓	A
2.				
3.				
4.				

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: ☑ Non-Wastewater ☐ Wastewater
   For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: ☑
2. In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
   - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here: ☐
3. In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
4. In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
5. Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
   - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: ☐
   - If UHCs are applicable, but none are present at the point of generation, check here: ☑
   - If incineration facility will monitor for all constituents of concern (except dioxins), check here: ☐

MANAGEMENT METHODS

A RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Manager/Sr. Waste Specialist

Signature: Tyler S. Ellingboe Date: 9/23/11

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
AKR000203687	2	(800) 424-9300	004376103 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc.
U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink
U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	12160	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) OR306118 - Burner Ash with lead; ERG #171; Container # ASH01
Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe On Behalf Of Savoonga IRA Council
Signature: Tyler G. Ellingboe
Month: 09 Day: 23 Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376103FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information: FOR TRANSPORTATION ONLY

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

WASTE MANAGEMENT

Generator Name: Native Village of Northeast Cape

Profile Number: OR306118 Manifest Number: 004376103FLE

Ref. #	2. US EPA HAZARDOUS WASTE CODE(s)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		✓	A
2.				
3.				
4.				

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: ☑ Non-Wastewater ☐ Wastewater
   For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: ☐
2. In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
   - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here: ☐
3. In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
4. In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
5. Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
   - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: ☑
   - If UHCs are applicable, but none are present at the point of generation, check here: ☐
   - If incineration facility will monitor for all constituents of concern (except dioxins), check here: ☐

MANAGEMENT METHODS

A RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
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D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe on Behalf of Savoonga IRA Council Title: Project Mgr. / Sr. Waste Specialist

Signature: Tyler S. Ellingboe Date: 9/23/11

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

Generator Name: Native Village of Northeast Cape Manifest Number: 004376103FLE

Profile Number OR306118

If D001-D043 requires treatment to 268.48 standards, then each underlying hazardous constituent present in the waste at the point of generation, and at a level above the UTS constituent specific treatment standard, must be listed. Write the letter (A, B.1, B.3, B.4, B.6, C or D which corresponds to the letter on form CWM-LC-2005C) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to the 268.49 standards, then each UHC in the waste at the point of generation, and at a level above 10 x the UTS must be listed. Write the letter (A.1 or B.5) which corresponds to the letter on form CWM-LC-2005-E beside each constituent present.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Acenaphthene		0.059	3.4	n- Butanol (butly alcohol)		5.6	2.6
Acenaphthylene		0.059	3.4	Butyl benzyl phthalate		0.017	28
Acetone		0.28	160	Butylate[2]		0.042	1.4
Acetonitrile		5.6	38[2]	2-sec-Butyl-4,6-dinitrophenol *(Dinoseb)*		0.066	2.5
Acetophenone		0.010	9.7	Carbaryl[2]		0.006	0.14
2-Acetylaminofluorene		0.059	140	Carbenzadim[2]		0.056	1.4
Acrolein		0.29	NA	Carbofuran[2]		0.006	0.14
Acrylamide[2]		19	23	Carbofuran phenol[2]		0.056	1.4
Acrylonitrile		0.24	84	Carbon disulfide (TCLP)		3.8	4.8[1,2]
Aldicarb sulfone[2]		0.056	0.28	Carbon tetrachloride		0.057	6.0
Aldrin		0.021	0.066	Carbosulfan[2]		0.028	1.4
4-Aminobiphenyl		0.13	NA	Chlordane (alpha & gamma)		0.0033	0.26
Aniline		0.81	14	p-Chloroaniline		0.46	16
o-Ansidine		0.010	0.66	Chlorobenzene		0.057	6.0
Anthracene		0.059	3.4	Chlorobenzilate		0.10	NA
Aramite		0.36	NA	2-chloro-1,3-butadiene		0.057	0.28[2]
Barban[2]		0.056	1.4	Chlorodibromomethane		0.057	15
Bendiocarb[2]		0.056	1.4	Chloroethane		0.27	6.0
Benomyl[2]		0.056	1.4	bis-(2-Chloroethoxy) methane		0.036	7.2
Benz (a) anthracene		0.059	3.4	bis-(2-Chloroethyl) ether		0.033	6.0
Benzal chloride[2]		0.055	6.0	2-Chloroethyl vinyl ether[2]		0.062	NA
Benzene		0.14	10	Chloroform		0.046	6.0
Benzo (b) flouranthene[4]		0.11	6.8	bis-(2-Chloroisopropyl) ether		0.055	7.2
Benzo (k) flouranthene[4]		0.11	6.8	p-Chloro-m-cresol		0.018	14
Benzo (g,h,i) perylene		0.0055	1.8	Chloromethane (methyl chloride)		0.19	30
Benzo (a) pyrene		0.061	3.4	2-Chloronaphthalene		0.055	5.6
alpha-BHC		0.00014	0.066	2-Chlorophenol		0.044	5.7
beta-BHC		0.00014	0.066	3-Chloropropylene		0.036	30
delta-BHC		0.023	0.066	Chrysene		0.059	3.4
gamma-BHC (Lindane)		0.0017	0.066	p- Cresidine		0.010	0.66
Bromodichloromethane		0.35	15	o-Cresol		0.11	5.6
Bromomethane (methyl bromide)		0.11	15	m-Cresol		0.77	5.6
4-Bromophenyl phenyl ether		0.055	15	p-Cresol		0.77	5.6

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
m-Cumeyl methylcarbamate[2]		0.056	1.4	1,4-Dioxane		12	170
Cyclohexanone (TCLP)		0.36	0.75[1,2]	Diphenyl amine[4]		0.92	13[2]
o,p'-DDD		0.023	0.087	Diphenylnitrosoamine[4]		0.92	13[2]
p,p'-DDD		0.023	0.087	1,2-Diphenylhydrazine		0.087	NA
o,p'-DDE		0.031	0.087	Disulfoton		0.017	6.2
p,p'-DDE		0.031	0.087	Dithiocarbamates (total)[2,4]		0.028	28
o,p'-DDT		0.0039	0.087	Endosulfan I		0.023	0.066
p,p'-DDT		0.0039	0.087	Endosulfan II		0.029	0.13
Dibenz (a,h) anthracene		0.055	8.2	Endosulfan Sulfate		0.029	0.13
Dibenz (a,e) pyrene		0.061	NA	Endrin		0.0028	0.13
1,2-Dibromo-3-Chloropropane		0.11	15	Endrin aldehyde		0.025	0.13
1,2-Dibromoethane *(Ethylene dibromide)*		0.028	15	EPTC[2]		0.042	1.4
Dibromomethane		0.11	15	Ethyl acetate		0.34	33
m-Dichlorobenzene		0.036	6.0	Ethyl benzene		0.057	10
o-Dichlorobenzene		0.088	6.0	Ethyl cyanide (Propanenitrile)		0.24	360
p-Dichlorobenzene		0.090	6.0	Ethyl ether		0.12	160
Dichlorodifluoromethane		0.23	7.2	Ethyl methacrylate		0.14	160
1,1-Dichloroethane		0.059	6.0	Ethylene oxide		0.12	NA
1,2-Dichloroethane		0.21	6.0	bis-(2-Ethylyhexyl) phthalate		0.28	28
1,1-Dichloroethylene		0.025	6.0	Famphur		0.017	15
trans-1,2-Dichloroethylene		0.054	30	Fluoranthene		0.068	3.4
2,4-Dichlorophenol		0.044	14	Fluorene		0.059	3.4
2,6-Dichlorophenol		0.044	14	Formetanate hydrochloride[2]		0.056	1.4
2,4-Dichlorophenoxyacetic acid *(2,4-D)*		0.72	10	Heptachlor		0.0012	0.066
1,2-Dichloropropane		0.85	18	1,2,3,4,6,7,8-HpCDD		0.000035	0.0025
cis-1,3-Dichloropropylene		0.036	18	1,2,3,4,6,7,8-HpCDF		0.000035	0.0025
trans-1,3-Dichloropropylene		0.036	18	1,2,3,4,7,8,9-HpCDF		0.000035	0.0025
Dieldrin		0.017	0.13	Heptachlor epoxide		0.016	0.066
Diethyl phthalate		0.20	28	Hexachlorobenzene		0.055	10
p-Dimethylaminoazobenzene[2]		0.13[2]	NA	Hexachlorobutadiene		0.055	5.6
2,4-Dimethyleneaniline		0.010	0.66	Hexachlorocyclopentadiene		0.057	2.4
2,4-Dimethyl phenol		0.036	14	Hexachloroethane		0.055	30
Dimethyl phthalate		0.047	28	Hexachloropropylene		0.035	30
Di-n-butyl phthalate		0.057	28	Hexachlorodibenzo-p-dioxins		0.000063	0.001
1,4-Dinitrobenzene		0.32	2.3	Hexachlorodibenzo-furans		0.000063	0.001
4,6-Dinitro-o-cresol		0.28	160	Indeno (1,2,3-c,d) pyrene		0.0055	3.4
2,4-Dinitrophenol		0.12	160	Iodomethane		0.19	65
2,4-Dinitrotoluene		0.32	140	Isobutanol (Isobutyl Alcohol)		5.6	170
2,6-Dinitrotoluene		0.55	28	Isodrin		0.021	0.066
Di-n-octyl phthalate		0.017	28				
Di-n-propylnitrosoamine		0.40	14				

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Isosafrole		0.081	2.6	1,2,3,4,6,7,8,9-OCDD		.000063	0.005
Kepone		0.0011	0.13	1,2,3,4,6,7,8,9-OCDF		.000063	0.005
Methacrylonitrile		0.24	84	Oxamyl[2]		0.056	0.28
Methanol (TCLP)		5.6	0.75[1,2]	Parathion		0.014	4.6
Methapyrilene		0.081	1.5	PCBs (Total) all isomers or Aroclors		0.10	10
Methiocarb[2]		0.056	1.4	Pebulate[2]		0.042	1.4
Methomyl[2]		0.028	0.14	Pentachlorobenzene		0.055	10
Methoxychlor		0.25	0.18	Pentachlorodibenzo-p-dioxins		.000063	0.001
Methyl ethyl ketone		0.28	36	Pentachlorodibenzo-furans		.000035	0.001
Methyl isobutyl ketone		0.14	33	Pentachloroethane[2]		0.055	6.0
Methyl methacrylate		0.14	160	Pentachloronitrobenzene		0.055	4.8
Methyl methanesulfonate		0.018	NA	Pentachlorophenol		0.089	7.4
Methyl parathion		0.014	4.6	Phenacetin		0.081	16
3-Methylcholanthrene		0.0055	15	Phenathrene		0.059	5.6
4,4-Methylene-bis-(2-chloroaniline)		0.50	30	Phenol		0.039	6.2
Methylene chloride		0.089	30	1,2-Phenylenediamine[2,3]		CMBST	CMBST
Metolcarb[2]		0.056	1.4	1,3-Phenylenediamine		0.010	0.66
Mexacarbate[2]		0.056	1.4	Phorate		0.021	4.6
Molinate[2]		0.042	1.4	Phthalic acid[2]		0.055	28
Naphthalene		0.059	5.6	Phthalic anhydride		0.055	28
2-Naphthylamine		0.52	NA	Physostigmine[2]		0.056	1.4
o-Nitroaniline[2]		0.27	14	Physostigmine salicylate[2]		0.056	1.4
p-Nitroaniline		0.028	28	Promecarb[2]		0.056	1.4
Nitrobenzene		0.068	14	Pronamide		0.093	1.5
5-Nitro-o-toluidine		0.32	28	Propham[2]		0.056	1.4
o-Nitrophenol[2]		0.028	13	Propoxur[2]		0.056	1.4
p-Nitrophenol		0.12	29	Prosulfocarb[2]		0.042	1.4
N-Nitrosodiethylamine		0.40	28	Pyrene		0.067	8.2
N-Nitrosodimethylamine		0.40	2.3[2]	Pyridine		0.014	16
N-Nitroso-di-n-butylamine		0.40	17	Safrole		0.081	22
N-Nitrosomethylethylamine		0.40	2.3	Silvex (2,4,5-TP)		0.72	7.9
N-Nitrosomorpholine		0.40	2.3	1,2,4,5-Tetrachlorobenzene		0.055	14
N-Nitrosopiperidine		0.013	35	Tetrachlorodibenzo-dioxins		.000063	0.001
N-Nitrosopyrrolidine		0.013	35	Tetrachlorodibenzo-furans		.000063	0.001
				1,1,1,2-Tetrachloroethane		0.057	6.0
				1,1,2,2-Tetrachloroethane		0.057	6.0
				Tetrachloroethylene		0.056	6.0
				2,3,4,6-Tetrachlorophenol		0.030	7.4
				Thiodicarb[2]		0.019	1.4

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WASTE MANAGEMENT

Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Thiophanate-methyl[2]		0.056	1.4	Antimony		1.9	1.15[1]
Toluene		0.080	10	Arsenic		1.4	5.0[1]
Toxaphene		0.0095	2.6	Barium		1.2	21.0[1]
Triallate[2]		0.042	1.4	Beryllium		0.82	1.22[1,6]
Bromoform (Tribromomethane)		0.63	15	Cadmium		0.69	0.11[1]
1,2,4-Trichlorobenzene		0.055	19	Chromium (Total)	A	2.77	0.60[1]
1,1,1-Trichloroethane		0.054	6.0	Cyanides (Total)		1.2	590
1,1,2-Trichloroethane		0.054	6.0	Cyanides (Amenable)		0.86	30[6]
Trichloroethylene		0.054	6.0	Fluoride[3]		35	NA
Trichloromonofluoromethane		0.020	30	Lead		0.69	0.75[1]
2,4,5-Trichlorophenol		0.18	7.4	Mercury (non-waste water from retort)		NA	0.20[1,2]
2,4,6-Trichlorophenol		0.035	7.4	Mercury (All others)		0.15	0.025[1]
2,4,5-T		0.72	7.9	Nickel		3.98	11.0[1]
1,2,3-Trichloropropane		0.85	30	Selenium		0.82	5.7[1,5]
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Silver		0.43	0.14[1]
Triethylamine[2]		0.081	1.5	Sulfide[3]		14	NA
Tris(2,3-dibromopropyl)phosphate		0.11	0.10[2]	Thallium		1.4	0.20[1]
Vernolate[2]		0.042	1.4	Vanadium[3]		4.3	NA 1.6[1]
Vinyl chloride		0.27	6.0	Zinc[3]		2.61	NA 4.3[1]
Xylene(sum of o-,m-,and p- isomers)[4]		0.32	30	2-Ethoxyethanol (F005)[7]		INCIN or BIODG	INCIN
				2-Nitropropane (F005)[7]		INCIN or CHOXD	INCIN

☐ No UHC's apply

1. These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract; all others measured through a total waste analysis.
2. These constituents are only applicable as Underlying Hazardous Constituents. They are not constituents requiring treatment in F039 wastes.
3. Not an underlying hazardous constituent requiring treatment in D001-D043 wastes, per 268.2(i). F039 WW standard only.
4. These compounds are regulated by the sum of their concentration instead of as individual constituents.
5. Effective August 24, 1998 in unauthorized states or states with no LDR program, Selenium at 5.7 Mg/L is not considered an underlying hazardous constituent in D001-D043 waste as it is above the characteristic level. This becomes effective in authorized states once that state adopts.
6. These constituents are applicable as Underlying Hazardous Constituents. F039 WW standard applicable.
7. Waste contains this compound as the only listed F001-F005 solvent.

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Mgr./Sr. Waste Specialist

Signature: Tyler S. Ellingboe Date: 9/23/11

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
AKR000203687	2	(800) 424-9300	004376104 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	16040	P	D008		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) OR306118 - Burner Ash with lead; ERG #171; Container # ASH02
Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe on Behalf of Savoonga IRA Council — Signature: Tyler S. Ellingboe — Month: 09 — Day: 23 — Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month — Day — Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376104FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

WASTE MANAGEMENT

Generator Name: Native Village of Northeast Cape

Profile Number: OR306118 Manifest Number: 004376104FLE

Ref. #	2. US EPA HAZARDOUS WASTE CODE(s)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		✓	A
2.				
3.				
4.				

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: ☑ Non-Wastewater ☐ Wastewater
   For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: ☐
2. In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
   - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here: ☐
3. In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
4. In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
5. Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
   - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: ☑
   - If UHCs are applicable, but none are present at the point of generation, check here: ☐
   - If incineration facility will monitor for all constituents of concern (except dioxins), check here: ☐

MANAGEMENT METHODS

A RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Mgr./Sr. Waste Specialist

Signature: Tyler D. Ellingboe Date: 9/23/11

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

Generator Name: Native Village of Northeast Cape Manifest Number: 004376104FLE

Profile Number OR306118

If D001-D043 requires treatment to 268.48 standards, then each underlying hazardous constituent present in the waste at the point of generation, and at a level above the UTS constituent specific treatment standard, must be listed. Write the letter (A, B.1, B.3, B.4, B.6, C or D which corresponds to the letter on form CWM-LC-2005C) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to the 268.49 standards, then each UHC in the waste at the point of generation, and at a level above 10 x the UTS must be listed. Write the letter (A.1 or B.5) which corresponds to the letter on form CWM-LC-2005-E beside each constituent present.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Acenaphthene		0.059	3.4	n- Butanol (butly alcohol)		5.6	2.6
Acenaphthylene		0.059	3.4	Butyl benzyl phthalate		0.017	28
Acetone		0.28	160	Butylate[2]		0.042	1.4
Acetonitrile		5.6	38[2]	2-sec-Butyl-4,6-dinitrophenol *(Dinoseb)*		0.066	2.5
Acetophenone		0.010	9.7	Carbaryl[2]		0.006	0.14
2-Acetylaminofluorene		0.059	140	Carbenzadim[2]		0.056	1.4
Acrolein		0.29	NA	Carbofuran[2]		0.006	0.14
Acrylamide[2]		19	23	Carbofuran phenol[2]		0.056	1.4
Acrylonitrile		0.24	84	Carbon disulfide (TCLP)		3.8	4.8[1,2]
Aldicarb sulfone[2]		0.056	0.28	Carbon tetrachloride		0.057	6.0
Aldrin		0.021	0.066	Carbosulfan[2]		0.028	1.4
4-Aminobiphenyl		0.13	NA	Chlordane (alpha & gamma)		0.0033	0.26
Aniline		0.81	14	p-Chloroaniline		0.46	16
o-Ansidine		0.010	0.66	Chlorobenzene		0.057	6.0
Anthracene		0.059	3.4	Chlorobenzilate		0.10	NA
Aramite		0.36	NA	2-chloro-1,3-butadiene		0.057	0.28[2]
Barban[2]		0.056	1.4	Chlorodibromomethane		0.057	15
Bendiocarb[2]		0.056	1.4	Chloroethane		0.27	6.0
Benomyl[2]		0.056	1.4	bis-(2-Chloroethoxy) methane		0.036	7.2
Benz (a) anthracene		0.059	3.4	bis-(2-Chloroethyl) ether		0.033	6.0
Benzal chloride[2]		0.055	6.0	2-Chloroethyl vinyl ether[2]		0.062	NA
Benzene		0.14	10	Chloroform		0.046	6.0
Benzo (b) flouranthene[4]		0.11	6.8	bis-(2-Chloroisopropyl) ether		0.055	7.2
Benzo (k) flouranthene[4]		0.11	6.8	p-Chloro-m-cresol		0.018	14
Benzo (g,h,i) perylene		0.0055	1.8	Chloromethane (methyl chloride)		0.19	30
Benzo (a) pyrene		0.061	3.4	2-Chloronaphthalene		0.055	5.6
alpha-BHC		0.00014	0.066	2-Chlorophenol		0.044	5.7
beta-BHC		0.00014	0.066	3-Chloropropylene		0.036	30
delta-BHC		0.023	0.066	Chrysene		0.059	3.4
gamma-BHC (Lindane)		0.0017	0.066	p- Cresidine		0.010	0.66
Bromodichloromethane		0.35	15	o-Cresol		0.11	5.6
Bromomethane (methyl bromide)		0.11	15	m-Cresol		0.77	5.6
4-Bromophenyl phenyl ether		0.055	15	p-Cresol		0.77	5.6

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WASTE MANAGEMENT

Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
m-Cumeyl methylcarbamate[2]		0.056	1.4	1,4-Dioxane		12	170
Cyclohexanone (TCLP)		0.36	0.75[1,2]	Diphenyl amine[4]		0.92	13[2]
o,p'-DDD		0.023	0.087	Diphenylnitrosoamine[4]		0.92	13[2]
p,p'-DDD		0.023	0.087	1,2-Diphenylhydrazine		0.087	NA
o,p'-DDE		0.031	0.087	Disulfoton		0.017	6.2
p,p'-DDE		0.031	0.087	Dithiocarbamates (total)[2,4]		0.028	28
o,p'-DDT		0.0039	0.087	Endosulfan I		0.023	0.066
p,p'-DDT		0.0039	0.087	Endosulfan II		0.029	0.13
Dibenz (a,h) anthracene		0.055	8.2	Endosulfan Sulfate		0.029	0.13
Dibenz (a,e) pyrene		0.061	NA	Endrin		0.0028	0.13
1,2-Dibromo-3-Chloropropane		0.11	15	Endrin aldehyde		0.025	0.13
1,2-Dibromoethane *(Ethylene dibromide)*		0.028	15	EPTC[2]		0.042	1.4
Dibromomethane		0.11	15	Ethyl acetate		0.34	33
m-Dichlorobenzene		0.036	6.0	Ethyl benzene		0.057	10
o-Dichlorobenzene		0.088	6.0	Ethyl cyanide (Propanenitrile)		0.24	360
p-Dichlorobenzene		0.090	6.0	Ethyl ether		0.12	160
Dichlorodifluoromethane		0.23	7.2	Ethyl methacrylate		0.14	160
1,1-Dichloroethane		0.059	6.0	Ethylene oxide		0.12	NA
1,2-Dichloroethane		0.21	6.0	bis-(2-Ethylyhexyl) phthalate		0.28	28
1,1-Dichloroethylene		0.025	6.0	Famphur		0.017	15
trans-1,2-Dichloroethylene		0.054	30	Fluoranthene		0.068	3.4
2,4-Dichlorophenol		0.044	14	Fluorene		0.059	3.4
2,6-Dichlorophenol		0.044	14	Formetanate hydrochloride[2]		0.056	1.4
2,4-Dichlorophenoxyacetic acid *(2,4-D)*		0.72	10	Heptachlor		0.0012	0.066
1,2-Dichloropropane		0.85	18	1,2,3,4,6,7,8-HpCDD		0.000035	0.0025
cis-1,3-Dichloropropylene		0.036	18	1,2,3,4,6,7,8-HpCDF		0.000035	0.0025
trans-1,3-Dichloropropylene		0.036	18	1,2,3,4,7,8,9-HpCDF		0.000035	0.0025
Dieldrin		0.017	0.13	Heptachlor epoxide		0.016	0.066
Diethyl phthalate		0.20	28	Hexachlorobenzene		0.055	10
p-Dimethylaminoazobenzene[2]		0.13[2]	NA	Hexachlorobutadiene		0.055	5.6
2,4-Dimethyleneaniline		0.010	0.66	Hexachlorocyclopentadiene		0.057	2.4
2,4-Dimethyl phenol		0.036	14	Hexachloroethane		0.055	30
Dimethyl phthalate		0.047	28	Hexachloropropylene		0.035	30
Di-n-butyl phthalate		0.057	28	Hexachlorodibenzo-p-dioxins		0.000063	0.001
1,4-Dinitrobenzene		0.32	2.3	Hexachlorodibenzo-furans		0.000063	0.001
4,6-Dinitro-o-cresol		0.28	160	Indeno (1,2,3-c,d) pyrene		0.0055	3.4
2,4-Dinitrophenol		0.12	160	Iodomethane		0.19	65
2,4-Dinitrotoluene		0.32	140	Isobutanol (Isobutyl Alcohol)		5.6	170
2,6-Dinitrotoluene		0.55	28	Isodrin		0.021	0.066
Di-n-octyl phthalate		0.017	28				
Di-n-propylnitrosoamine		0.40	14				

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Isosafrole		0.081	2.6	1,2,3,4,6,7,8,9-OCDD		.000063	0.005
Kepone		0.0011	0.13	1,2,3,4,6,7,8,9-OCDF		.000063	0.005
Methacrylonitrile		0.24	84	Oxamyl[2]		0.056	0.28
Methanol (TCLP)		5.6	0.75[1,2]	Parathion		0.014	4.6
Methapyrilene		0.081	1.5	PCBs (Total) all isomers or Aroclors		0.10	10
Methiocarb[2]		0.056	1.4	Pebulate[2]		0.042	1.4
Methomyl[2]		0.028	0.14	Pentachlorobenzene		0.055	10
Methoxychlor		0.25	0.18	Pentachlorodibenzo-p-dioxins		.000063	0.001
Methyl ethyl ketone		0.28	36	Pentachlorodibenzo-furans		.000035	0.001
Methyl isobutyl ketone		0.14	33	Pentachloroethane[2]		0.055	6.0
Methyl methacrylate		0.14	160	Pentachloronitrobenzene		0.055	4.8
Methyl methanesulfonate		0.018	NA	Pentachlorophenol		0.089	7.4
Methyl parathion		0.014	4.6	Phenacetin		0.081	16
3-Methylcholanthrene		0.0055	15	Phenathrene		0.059	5.6
4,4-Methylene-bis-(2-chloroaniline)		0.50	30	Phenol		0.039	6.2
Methylene chloride		0.089	30	1,2-Phenylenediamine[2,3]		CMBST	CMBST
Metolcarb[2]		0.056	1.4	1,3-Phenylenediamine		0.010	0.66
Mexacarbate[2]		0.056	1.4	Phorate		0.021	4.6
Molinate[2]		0.042	1.4	Phthalic acid[2]		0.055	28
Naphthalene		0.059	5.6	Phthalic anhydride		0.055	28
2-Naphthylamine		0.52	NA	Physostigmine[2]		0.056	1.4
o-Nitroaniline[2]		0.27	14	Physostigmine salicylate[2]		0.056	1.4
p-Nitroaniline		0.028	28	Promecarb[2]		0.056	1.4
Nitrobenzene		0.068	14	Pronamide		0.093	1.5
5-Nitro-o-toluidine		0.32	28	Propham[2]		0.056	1.4
o-Nitrophenol[2]		0.028	13	Propoxur[2]		0.056	1.4
p-Nitrophenol		0.12	29	Prosulfocarb[2]		0.042	1.4
N-Nitrosodiethylamine		0.40	28	Pyrene		0.067	8.2
N-Nitrosodimethylamine		0.40	2.3[2]	Pyridine		0.014	16
N-Nitroso-di-n-butylamine		0.40	17	Safrole		0.081	22
N-Nitrosomethylethylamine		0.40	2.3	Silvex (2,4,5-TP)		0.72	7.9
N-Nitrosomorpholine		0.40	2.3	1,2,4,5-Tetrachlorobenzene		0.055	14
N-Nitrosopiperidine		0.013	35	Tetrachlorodibenzo-dioxins		.000063	0.001
N-Nitrosopyrrolidine		0.013	35	Tetrachlorodibenzo-furans		.000063	0.001
				1,1,1,2-Tetrachloroethane		0.057	6.0
				1,1,2,2-Tetrachloroethane		0.057	6.0
				Tetrachloroethylene		0.056	6.0
				2,3,4,6-Tetrachlorophenol		0.030	7.4
				Thiodicarb[2]		0.019	1.4

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WASTE MANAGEMENT

Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Thiophanate-methyl[2]		0.056	1.4	Antimony		1.9	1.15[1]
Toluene		0.080	10	Arsenic		1.4	5.0[1]
Toxaphene		0.0095	2.6	Barium		1.2	21.0[1]
Triallate[2]		0.042	1.4	Beryllium		0.82	1.22[1,6]
Bromoform (Tribromomethane)		0.63	15	Cadmium		0.69	0.11[1]
1,2,4-Trichlorobenzene		0.055	19	Chromium (Total)	A	2.77	0.60[1]
1,1,1-Trichloroethane		0.054	6.0	Cyanides (Total)		1.2	590
1,1,2-Trichloroethane		0.054	6.0	Cyanides (Amenable)		0.86	30[6]
Trichloroethylene		0.054	6.0	Fluoride[3]		35	NA
Trichloromonofluoromethane		0.020	30	Lead		0.69	0.75[1]
2,4,5-Trichlorophenol		0.18	7.4	Mercury (non-waste water from retort)		NA	0.20[1,2]
2,4,6-Trichlorophenol		0.035	7.4	Mercury (All others)		0.15	0.025[1]
2,4,5-T		0.72	7.9	Nickel		3.98	11.0[1]
1,2,3-Trichloropropane		0.85	30	Selenium		0.82	5.7[1,5]
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Silver		0.43	0.14[1]
Triethylamine[2]		0.081	1.5	Sulfide[3]		14	NA
Tris(2,3-dibromopropyl)phosphate		0.11	0.10[2]	Thallium		1.4	0.20[1]
Vernolate[2]		0.042	1.4	Vanadium[3]		4.3	NA 1.6[1]
Vinyl chloride		0.27	6.0	Zinc[3]		2.61	NA 4.3[1]
Xylene(sum of o-,m-,and p- isomers)[4]		0.32	30	2-Ethoxyethanol (F005)[7]		INCIN or BIODG	INCIN
				2-Nitropropane (F005)[7]		INCIN or CHOXD	INCIN

☐ No UHC's apply

1. These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract; all others measured through a total waste analysis.
2. These constituents are only applicable as Underlying Hazardous Constituents. They are not constituents requiring treatment in F039 wastes.
3. Not an underlying hazardous constituent requiring treatment in D001-D043 wastes, per 268.2(i). F039 WW standard only.
4. These compounds are regulated by the sum of their concentration instead of as individual constituents.
5. Effective August 24, 1998 in unauthorized states or states with no LDR program, Selenium at 5.7 Mg/L is not considered an underlying hazardous constituent in D001-D043 waste as it is above the characteristic level. This becomes effective in authorized states once that state adopts.
6. These constituents are applicable as Underlying Hazardous Constituents. F039 WW standard applicable.
7. Waste contains this compound as the only listed F001-F005 solvent.

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Mgr/Sr. Waste Specialist

Signature: Tyler D. Ellingboe Date: 9/23/11

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: AKR000203687
2. Page 1 of: 2
3. Emergency Response Phone: (800) 424-9300
4. Manifest Tracking Number: 004376105 FLE

5. Generator's Name and Mailing Address:
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address):
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc.
U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink
U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address:
CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	18940	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) UR306118 - Burner Ash with lead; ERG #171; Container # ASH03
Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe on Behalf of Savoonga IRA Council
Signature: Tyler S. Ellingboe
Month: 09 Day: 23 Year: 11

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY
18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month | Day | Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376105FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

WASTE MANAGEMENT

Generator Name: Native Village of Northeast Cape

Profile Number: OR306118 Manifest Number: 004376105FLE

Ref. #	2. US EPA HAZARDOUS WASTE CODE(s)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		✓	A
2.				
3.				
4.				

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: ☑ Non-Wastewater ☐ Wastewater
   For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: ☐
2. In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
   - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here: ☐
3. In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
4. In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
5. Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
   - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: ☑
   - If UHCs are applicable, but none are present at the point of generation, check here: ☐
   - If incineration facility will monitor for all constituents of concern (except dioxins), check here: ☐

MANAGEMENT METHODS

A RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe on Behalf of Savoonga IRA Council Title: Project Mgr/Sr. Waste Specialist

Signature: Tyler D Ellingboe Date: 9/23/11

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

Generator Name: Native Village of Northeast Cape Manifest Number: 004376105FLE

Profile Number OR306118

If D001-D043 requires treatment to 268.48 standards, then each underlying hazardous constituent present in the waste at the point of generation, and at a level above the UTS constituent specific treatment standard, must be listed. Write the letter (A, B.1, B.3, B.4, B.6, C or D which corresponds to the letter on form CWM-LC-2005C) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to the 268.49 standards, then each UHC in the waste at the point of generation, and at a level above 10 x the UTS must be listed. Write the letter (A.1 or B.5) which corresponds to the letter on form CWM-LC-2005-E beside each constituent present.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Acenaphthene		0.059	3.4	n- Butanol (butly alcohol)		5.6	2.6
Acenaphthylene		0.059	3.4	Butyl benzyl phthalate		0.017	28
Acetone		0.28	160	Butylate[2]		0.042	1.4
Acetonitrile		5.6	38[2]	2-sec-Butyl-4,6-dinitrophenol *(Dinoseb)*		0.066	2.5
Acetophenone		0.010	9.7	Carbaryl[2]		0.006	0.14
2-Acetylaminofluorene		0.059	140	Carbenzadim[2]		0.056	1.4
Acrolein		0.29	NA	Carbofuran[2]		0.006	0.14
Acrylamide[2]		19	23	Carbofuran phenol[2]		0.056	1.4
Acrylonitrile		0.24	84	Carbon disulfide (TCLP)		3.8	4.8[1,2]
Aldicarb sulfone[2]		0.056	0.28	Carbon tetrachloride		0.057	6.0
Aldrin		0.021	0.066	Carbosulfan[2]		0.028	1.4
4-Aminobiphenyl		0.13	NA	Chlordane (alpha & gamma)		0.0033	0.26
Aniline		0.81	14	p-Chloroaniline		0.46	16
o-Ansidine		0.010	0.66	Chlorobenzene		0.057	6.0
Anthracene		0.059	3.4	Chlorobenzilate		0.10	NA
Aramite		0.36	NA	2-chloro-1,3-butadiene		0.057	0.28[2]
Barban[2]		0.056	1.4	Chlorodibromomethane		0.057	15
Bendiocarb[2]		0.056	1.4	Chloroethane		0.27	6.0
Benomyl[2]		0.056	1.4	bis-(2-Chloroethoxy) methane		0.036	7.2
Benz (a) anthracene		0.059	3.4	bis-(2-Chloroethyl) ether		0.033	6.0
Benzal chloride[2]		0.055	6.0	2-Chloroethyl vinyl ether[2]		0.062	NA
Benzene		0.14	10	Chloroform		0.046	6.0
Benzo (b) flouranthene[4]		0.11	6.8	bis-(2-Chloroisopropyl) ether		0.055	7.2
Benzo (k) flouranthene[4]		0.11	6.8	p-Chloro-m-cresol		0.018	14
Benzo (g,h,i) perylene		0.0055	1.8	Chloromethane (methyl chloride)		0.19	30
Benzo (a) pyrene		0.061	3.4	2-Chloronaphthalene		0.055	5.6
alpha-BHC		0.00014	0.066	2-Chlorophenol		0.044	5.7
beta-BHC		0.00014	0.066	3-Chloropropylene		0.036	30
delta-BHC		0.023	0.066	Chrysene		0.059	3.4
gamma-BHC (Lindane)		0.0017	0.066	p- Cresidine		0.010	0.66
Bromodichloromethane		0.35	15	o-Cresol		0.11	5.6
Bromomethane (methyl bromide)		0.11	15	m-Cresol		0.77	5.6
4-Bromophenyl phenyl ether		0.055	15	p-Cresol		0.77	5.6

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
m-Cumeyl methylcarbamate[2]		0.056	1.4	1,4-Dioxane		12	170
Cyclohexanone (TCLP)		0.36	0.75[1,2]	Diphenyl amine[4]		0.92	13[2]
o,p'-DDD		0.023	0.087	Diphenylnitrosoamine[4]		0.92	13[2]
p,p'-DDD		0.023	0.087	1,2-Diphenylhydrazine		0.087	NA
o,p'-DDE		0.031	0.087	Disulfoton		0.017	6.2
p,p'-DDE		0.031	0.087	Dithiocarbamates (total)[2,4]		0.028	28
o,p'-DDT		0.0039	0.087	Endosulfan I		0.023	0.066
p,p'-DDT		0.0039	0.087	Endosulfan II		0.029	0.13
Dibenz (a,h) anthracene		0.055	8.2	Endosulfan Sulfate		0.029	0.13
Dibenz (a,e) pyrene		0.061	NA	Endrin		0.0028	0.13
1,2-Dibromo-3-Chloropropane		0.11	15	Endrin aldehyde		0.025	0.13
1,2-Dibromoethane *(Ethylene dibromide)*		0.028	15	EPTC[2]		0.042	1.4
Dibromomethane		0.11	15	Ethyl acetate		0.34	33
m-Dichlorobenzene		0.036	6.0	Ethyl benzene		0.057	10
o-Dichlorobenzene		0.088	6.0	Ethyl cyanide (Propanenitrile)		0.24	360
p-Dichlorobenzene		0.090	6.0	Ethyl ether		0.12	160
Dichlorodifluoromethane		0.23	7.2	Ethyl methacrylate		0.14	160
1,1-Dichloroethane		0.059	6.0	Ethylene oxide		0.12	NA
1,2-Dichloroethane		0.21	6.0	bis-(2-Ethylyhexyl) phthalate		0.28	28
1,1-Dichloroethylene		0.025	6.0	Famphur		0.017	15
trans-1,2-Dichloroethylene		0.054	30	Fluoranthene		0.068	3.4
2,4-Dichlorophenol		0.044	14	Fluorene		0.059	3.4
2,6-Dichlorophenol		0.044	14	Formetanate hydrochloride[2]		0.056	1.4
2,4-Dichlorophenoxyacetic acid *(2,4-D)*		0.72	10	Heptachlor		0.0012	0.066
1,2-Dichloropropane		0.85	18	1,2,3,4,6,7,8-HpCDD		0.000035	0.0025
cis-1,3-Dichloropropylene		0.036	18	1,2,3,4,6,7,8-HpCDF		0.000035	0.0025
trans-1,3-Dichloropropylene		0.036	18	1,2,3,4,7,8,9-HpCDF		0.000035	0.0025
Dieldrin		0.017	0.13	Heptachlor epoxide		0.016	0.066
Diethyl phthalate		0.20	28	Hexachlorobenzene		0.055	10
p-Dimethylaminoazobenzene[2]		0.13[2]	NA	Hexachlorobutadiene		0.055	5.6
2,4-Dimethyleneaniline		0.010	0.66	Hexachlorocyclopentadiene		0.057	2.4
2,4-Dimethyl phenol		0.036	14	Hexachloroethane		0.055	30
Dimethyl phthalate		0.047	28	Hexachloropropylene		0.035	30
Di-n-butyl phthalate		0.057	28	Hexachlorodibenzo-p-dioxins		0.000063	0.001
1,4-Dinitrobenzene		0.32	2.3	Hexachlorodibenzo-furans		0.000063	0.001
4,6-Dinitro-o-cresol		0.28	160	Indeno (1,2,3-c,d) pyrene		0.0055	3.4
2,4-Dinitrophenol		0.12	160	Iodomethane		0.19	65
2,4-Dinitrotoluene		0.32	140	Isobutanol (Isobutyl Alcohol)		5.6	170
2,6-Dinitrotoluene		0.55	28	Isodrin		0.021	0.066
Di-n-octyl phthalate		0.017	28				
Di-n-propylnitrosoamine		0.40	14				

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Isosafrole		0.081	2.6	1,2,3,4,6,7,8,9-OCDD		.000063	0.005
Kepone		0.0011	0.13	1,2,3,4,6,7,8,9-OCDF		.000063	0.005
Methacrylonitrile		0.24	84	Oxamyl[2]		0.056	0.28
Methanol (TCLP)		5.6	0.75[1,2]	Parathion		0.014	4.6
Methapyrilene		0.081	1.5	PCBs (Total) all isomers or Aroclors		0.10	10
Methiocarb[2]		0.056	1.4	Pebulate[2]		0.042	1.4
Methomyl[2]		0.028	0.14	Pentachlorobenzene		0.055	10
Methoxychlor		0.25	0.18	Pentachlorodibenzo-p-dioxins		.000063	0.001
Methyl ethyl ketone		0.28	36	Pentachlorodibenzo-furans		.000035	0.001
Methyl isobutyl ketone		0.14	33	Pentachloroethane[2]		0.055	6.0
Methyl methacrylate		0.14	160	Pentachloronitrobenzene		0.055	4.8
Methyl methanesulfonate		0.018	NA	Pentachlorophenol		0.089	7.4
Methyl parathion		0.014	4.6	Phenacetin		0.081	16
3-Methylcholanthrene		0.0055	15	Phenathrene		0.059	5.6
4,4-Methylene-bis-(2-chloroaniline)		0.50	30	Phenol		0.039	6.2
Methylene chloride		0.089	30	1,2-Phenylenediamine[2,3]		CMBST	CMBST
Metolcarb[2]		0.056	1.4	1,3-Phenylenediamine		0.010	0.66
Mexacarbate[2]		0.056	1.4	Phorate		0.021	4.6
Molinate[2]		0.042	1.4	Phthalic acid[2]		0.055	28
Naphthalene		0.059	5.6	Phthalic anhydride		0.055	28
2-Naphthylamine		0.52	NA	Physostigmine[2]		0.056	1.4
o-Nitroaniline[2]		0.27	14	Physostigmine salicylate[2]		0.056	1.4
p-Nitroaniline		0.028	28	Promecarb[2]		0.056	1.4
Nitrobenzene		0.068	14	Pronamide		0.093	1.5
5-Nitro-o-toluidine		0.32	28	Propham[2]		0.056	1.4
o-Nitrophenol[2]		0.028	13	Propoxur[2]		0.056	1.4
p-Nitrophenol		0.12	29	Prosulfocarb[2]		0.042	1.4
N-Nitrosodiethylamine		0.40	28	Pyrene		0.067	8.2
N-Nitrosodimethylamine		0.40	2.3[2]	Pyridine		0.014	16
N-Nitroso-di-n-butylamine		0.40	17	Safrole		0.081	22
N-Nitrosomethylethylamine		0.40	2.3	Silvex (2,4,5-TP)		0.72	7.9
N-Nitrosomorpholine		0.40	2.3	1,2,4,5-Tetrachlorobenzene		0.055	14
N-Nitrosopiperidine		0.013	35	Tetrachlorodibenzo-dioxins		.000063	0.001
N-Nitrosopyrrolidine		0.013	35	Tetrachlorodibenzo-furans		.000063	0.001
				1,1,1,2-Tetrachloroethane		0.057	6.0
				1,1,2,2-Tetrachloroethane		0.057	6.0
				Tetrachloroethylene		0.056	6.0
				2,3,4,6-Tetrachlorophenol		0.030	7.4
				Thiodicarb[2]		0.019	1.4

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Thiophanate-methyl[2]		0.056	1.4	Antimony		1.9	1.15[1]
Toluene		0.080	10	Arsenic		1.4	5.0[1]
Toxaphene		0.0095	2.6	Barium		1.2	21.0[1]
Triallate[2]		0.042	1.4	Beryllium		0.82	1.22[1,6]
Bromoform (Tribromomethane)		0.63	15	Cadmium		0.69	0.11[1]
1,2,4-Trichlorobenzene		0.055	19	Chromium (Total)	A	2.77	0.60[1]
1,1,1-Trichloroethane		0.054	6.0	Cyanides (Total)		1.2	590
1,1,2-Trichloroethane		0.054	6.0	Cyanides (Amenable)		0.86	30[6]
Trichloroethylene		0.054	6.0	Fluoride[3]		35	NA
Trichloromonofluoromethane		0.020	30	Lead		0.69	0.75[1]
2,4,5-Trichlorophenol		0.18	7.4	Mercury (non-waste water from retort)		NA	0.20[1,2]
2,4,6-Trichlorophenol		0.035	7.4	Mercury (All others)		0.15	0.025[1]
2,4,5-T		0.72	7.9	Nickel		3.98	11.0[1]
1,2,3-Trichloropropane		0.85	30	Selenium		0.82	5.7[1,5]
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Silver		0.43	0.14[1]
Triethylamine[2]		0.081	1.5	Sulfide[3]		14	NA
Tris(2,3-dibromopropyl)phosphate		0.11	0.10[2]	Thallium		1.4	0.20[1]
Vernolate[2]		0.042	1.4	Vanadium[3]		4.3	NA 1.6[1]
Vinyl chloride		0.27	6.0	Zinc[3]		2.61	NA 4.3[1]
Xylene(sum of o-,m-,and p- isomers)[4]		0.32	30	2-Ethoxyethanol (F005)[7]		INCIN or BIODG	INCIN
				2-Nitropropane (F005)[7]		INCIN or CHOXD	INCIN

☐ No UHC's apply

1. These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract; all others measured through a total waste analysis.
2. These constituents are only applicable as Underlying Hazardous Constituents. They are not constituents requiring treatment in F039 wastes.
3. Not an underlying hazardous constituent requiring treatment in D001-D043 wastes, per 268.2(i). F039 WW standard only.
4. These compounds are regulated by the sum of their concentration instead of as individual constituents.
5. Effective August 24, 1998 in unauthorized states or states with no LDR program, Selenium at 5.7 Mg/L is not considered an underlying hazardous constituent in D001-D043 waste as it is above the characteristic level. This becomes effective in authorized states once that state adopts.
6. These constituents are applicable as Underlying Hazardous Constituents. F039 WW standard applicable.
7. Waste contains this compound as the only listed F001-F005 solvent.

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe Title: Project Mgr/Sr. Waste Specialist

Signature: Tyler S. Ellingboe Date: 9/23/11

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
AKR000203687	2	(800) 424-9300	004376106 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	16980	P	D008		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) OR306118 - Burner Ash with lead; ERG #171; Container # ASH04
Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe On Behalf Of Savoonga IRA Council — Signature: Tyler S. Ellingboe — Month: 09 — Day: 23 — Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376106FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

LAND DISPOSAL RESTRICTION (LDR) NOTIFICATION AND CERTIFICATION FORM (PHASE IV)

WASTE MANAGEMENT

Generator Name: Native Village of Northeast Cape

Profile Number: OR306118 Manifest Number: 004376106FLE

Ref. #	2. US EPA HAZARDOUS WASTE CODE(s)	3. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION (If not applicable, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1.	D008		✓	A
2.				
3.				
4.				

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: ☑ Non-Wastewater ☐ Wastewater
   For hazardous debris meeting the definition of debris and subject to the alternate treatment standards in 268.45, check here: ☐
2. In **column 2**, identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261.
   - To list additional waste code(s) use Land Disposal Notification/Certification Supplemental Form (CWM-2005-D) and check here: ☐
3. In **column 3**, for each waste code, identify the subcategory if one applies, or check NONE if the waste code has no subcategory.
4. In **column 4**, enter the letter from the list below (A. – D.) that describes how the waste must be managed to comply with the land disposal restriction regulations in 40 CFR 268. Please note that if you enter B.1, B.3, B.6 or D, you are certifying that the waste meets all the Land Disposal Restrictions and may be landfilled without further treatment. If you enter B.4, you are certifying that the waste has been decharacterized, but still requires treatment for UHCs. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed on this form. Where these regulatory citations differ, your form will be deemed to refer to those state citations as well as 40 CFR.)
5. Constituents of concern for waste codes F001-F005 and F039 and underlying hazardous constituents (UHCs) for D001-D043, must be identified unless the treatment facility will monitor for all constituents. **If any of these codes apply, check appropriate box below:**
   - To identify constituents of concern for F001-F005, F039 and UHCs, use the Identification of Constituents of Concern Form (CWM-2007) and check here: ☑
   - If UHCs are applicable, but none are present at the point of generation, check here: ☐
   - If incineration facility will monitor for all constituents of concern (except dioxins), check here: ☐

MANAGEMENT METHODS

A RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process had been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the non-wastewater organic constituents have been treated by combustion units as specified in 268.42 Table 1. I have been unable to detect the non-wastewater organic constituents despite having used best faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This de-characterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that the debris has been treated in accordance with the requirements of 40CFR 268.45. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe on Behalf of Savoonga IRA Council Title: Project Mgr/Sr. Waste Specialist

Signature: Tyler S. Ellingboe Date: 9/23/11

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

Generator Name: Native Village of Northeast Cape Manifest Number: 004376106FLE

Profile Number OR306118

If D001-D043 requires treatment to 268.48 standards, then each underlying hazardous constituent present in the waste at the point of generation, and at a level above the UTS constituent specific treatment standard, must be listed. Write the letter (A, B.1, B.3, B.4, B.6, C or D which corresponds to the letter on form CWM-LC-2005C) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to the 268.49 standards, then each UHC in the waste at the point of generation, and at a level above 10 x the UTS must be listed. Write the letter (A.1 or B.5) which corresponds to the letter on form CWM-LC-2005-E beside each constituent present.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Acenaphthene		0.059	3.4	n- Butanol (butly alcohol)		5.6	2.6
Acenaphthylene		0.059	3.4	Butyl benzyl phthalate		0.017	28
Acetone		0.28	160	Butylate[2]		0.042	1.4
Acetonitrile		5.6	38[2]	2-sec-Butyl-4,6-dinitrophenol *(Dinoseb)*		0.066	2.5
Acetophenone		0.010	9.7	Carbaryl[2]		0.006	0.14
2-Acetylaminofluorene		0.059	140	Carbenzadim[2]		0.056	1.4
Acrolein		0.29	NA	Carbofuran[2]		0.006	0.14
Acrylamide[2]		19	23	Carbofuran phenol[2]		0.056	1.4
Acrylonitrile		0.24	84	Carbon disulfide (TCLP)		3.8	4.8[1,2]
Aldicarb sulfone[2]		0.056	0.28	Carbon tetrachloride		0.057	6.0
Aldrin		0.021	0.066	Carbosulfan[2]		0.028	1.4
4-Aminobiphenyl		0.13	NA	Chlordane (alpha & gamma)		0.0033	0.26
Aniline		0.81	14	p-Chloroaniline		0.46	16
o-Ansidine		0.010	0.66	Chlorobenzene		0.057	6.0
Anthracene		0.059	3.4	Chlorobenzilate		0.10	NA
Aramite		0.36	NA	2-chloro-1,3-butadiene		0.057	0.28[2]
Barban[2]		0.056	1.4	Chlorodibromomethane		0.057	15
Bendiocarb[2]		0.056	1.4	Chloroethane		0.27	6.0
Benomyl[2]		0.056	1.4	bis-(2-Chloroethoxy) methane		0.036	7.2
Benz (a) anthracene		0.059	3.4	bis-(2-Chloroethyl) ether		0.033	6.0
Benzal chloride[2]		0.055	6.0	2-Chloroethyl vinyl ether[2]		0.062	NA
Benzene		0.14	10	Chloroform		0.046	6.0
Benzo (b) flouranthene[4]		0.11	6.8	bis-(2-Chloroisopropyl) ether		0.055	7.2
Benzo (k) flouranthene[4]		0.11	6.8	p-Chloro-m-cresol		0.018	14
Benzo (g,h,i) perylene		0.0055	1.8	Chloromethane (methyl chloride)		0.19	30
Benzo (a) pyrene		0.061	3.4	2-Chloronaphthalene		0.055	5.6
alpha-BHC		0.00014	0.066	2-Chlorophenol		0.044	5.7
beta-BHC		0.00014	0.066	3-Chloropropylene		0.036	30
delta-BHC		0.023	0.066	Chrysene		0.059	3.4
gamma-BHC (Lindane)		0.0017	0.066	p- Cresidine		0.010	0.66
Bromodichloromethane		0.35	15	o-Cresol		0.11	5.6
Bromomethane (methyl bromide)		0.11	15	m-Cresol		0.77	5.6
4-Bromophenyl phenyl ether		0.055	15	p-Cresol		0.77	5.6

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
m-Cumeyl methylcarbamate[2]		0.056	1.4	1,4-Dioxane		12	170
Cyclohexanone (TCLP)		0.36	0.75[1,2]	Diphenyl amine[4]		0.92	13[2]
o,p'-DDD		0.023	0.087	Diphenylnitrosoamine[4]		0.92	13[2]
p,p'-DDD		0.023	0.087	1,2-Diphenylhydrazine		0.087	NA
o,p'-DDE		0.031	0.087	Disulfoton		0.017	6.2
p,p'-DDE		0.031	0.087	Dithiocarbamates (total)[2,4]		0.028	28
o,p'-DDT		0.0039	0.087	Endosulfan I		0.023	0.066
p,p'-DDT		0.0039	0.087	Endosulfan II		0.029	0.13
Dibenz (a,h) anthracene		0.055	8.2	Endosulfan Sulfate		0.029	0.13
Dibenz (a,e) pyrene		0.061	NA	Endrin		0.0028	0.13
1,2-Dibromo-3-Chloropropane		0.11	15	Endrin aldehyde		0.025	0.13
1,2-Dibromoethane *(Ethylene dibromide)*		0.028	15	EPTC[2]		0.042	1.4
Dibromomethane		0.11	15	Ethyl acetate		0.34	33
m-Dichlorobenzene		0.036	6.0	Ethyl benzene		0.057	10
o-Dichlorobenzene		0.088	6.0	Ethyl cyanide (Propanenitrile)		0.24	360
p-Dichlorobenzene		0.090	6.0	Ethyl ether		0.12	160
Dichlorodifluoromethane		0.23	7.2	Ethyl methacrylate		0.14	160
1,1-Dichloroethane		0.059	6.0	Ethylene oxide		0.12	NA
1,2-Dichloroethane		0.21	6.0	bis-(2-Ethylyhexyl) phthalate		0.28	28
1,1-Dichloroethylene		0.025	6.0	Famphur		0.017	15
trans-1,2-Dichloroethylene		0.054	30	Fluoranthene		0.068	3.4
2,4-Dichlorophenol		0.044	14	Fluorene		0.059	3.4
2,6-Dichlorophenol		0.044	14	Formetanate hydrochloride[2]		0.056	1.4
2,4-Dichlorophenoxyacetic acid *(2,4-D)*		0.72	10	Heptachlor		0.0012	0.066
1,2-Dichloropropane		0.85	18	1,2,3,4,6,7,8-HpCDD		0.000035	0.0025
cis-1,3-Dichloropropylene		0.036	18	1,2,3,4,6,7,8-HpCDF		0.000035	0.0025
trans-1,3-Dichloropropylene		0.036	18	1,2,3,4,7,8,9-HpCDF		0.000035	0.0025
Dieldrin		0.017	0.13	Heptachlor epoxide		0.016	0.066
Diethyl phthalate		0.20	28	Hexachlorobenzene		0.055	10
p-Dimethylaminoazobenzene[2]		0.13[2]	NA	Hexachlorobutadiene		0.055	5.6
2,4-Dimethyleneaniline		0.010	0.66	Hexachlorocyclopentadiene		0.057	2.4
2,4-Dimethyl phenol		0.036	14	Hexachloroethane		0.055	30
Dimethyl phthalate		0.047	28	Hexachloropropylene		0.035	30
Di-n-butyl phthalate		0.057	28	Hexachlorodibenzo-p-dioxins		0.000063	0.001
1,4-Dinitrobenzene		0.32	2.3	Hexachlorodibenzo-furans		0.000063	0.001
4,6-Dinitro-o-cresol		0.28	160	Indeno (1,2,3-c,d) pyrene		0.0055	3.4
2,4-Dinitrophenol		0.12	160	Iodomethane		0.19	65
2,4-Dinitrotoluene		0.32	140	Isobutanol (Isobutyl Alcohol)		5.6	170
2,6-Dinitrotoluene		0.55	28	Isodrin		0.021	0.066
Di-n-octyl phthalate		0.017	28				
Di-n-propylnitrosoamine		0.40	14				

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Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Isosafrole		0.081	2.6	1,2,3,4,6,7,8,9-OCDD		.000063	0.005
Kepone		0.0011	0.13	1,2,3,4,6,7,8,9-OCDF		.000063	0.005
Methacrylonitrile		0.24	84	Oxamyl[2]		0.056	0.28
Methanol (TCLP)		5.6	0.75[1,2]	Parathion		0.014	4.6
Methapyrilene		0.081	1.5	PCBs (Total) all isomers or Aroclors		0.10	10
Methiocarb[2]		0.056	1.4	Pebulate[2]		0.042	1.4
Methomyl[2]		0.028	0.14	Pentachlorobenzene		0.055	10
Methoxychlor		0.25	0.18	Pentachlorodibenzo-p-dioxins		.000063	0.001
Methyl ethyl ketone		0.28	36	Pentachlorodibenzo-furans		.000035	0.001
Methyl isobutyl ketone		0.14	33	Pentachloroethane[2]		0.055	6.0
Methyl methacrylate		0.14	160	Pentachloronitrobenzene		0.055	4.8
Methyl methanesulfonate		0.018	NA	Pentachlorophenol		0.089	7.4
Methyl parathion		0.014	4.6	Phenacetin		0.081	16
3-Methylcholanthrene		0.0055	15	Phenathrene		0.059	5.6
4,4-Methylene-bis-(2-chloroaniline)		0.50	30	Phenol		0.039	6.2
Methylene chloride		0.089	30	1,2-Phenylenediamine[2,3]		CMBST	CMBST
Metolcarb[2]		0.056	1.4	1,3-Phenylenediamine		0.010	0.66
Mexacarbate[2]		0.056	1.4	Phorate		0.021	4.6
Molinate[2]		0.042	1.4	Phthalic acid[2]		0.055	28
Naphthalene		0.059	5.6	Phthalic anhydride		0.055	28
2-Naphthylamine		0.52	NA	Physostigmine[2]		0.056	1.4
o-Nitroaniline[2]		0.27	14	Physostigmine salicylate[2]		0.056	1.4
p-Nitroaniline		0.028	28	Promecarb[2]		0.056	1.4
Nitrobenzene		0.068	14	Pronamide		0.093	1.5
5-Nitro-o-toluidine		0.32	28	Propham[2]		0.056	1.4
o-Nitrophenol[2]		0.028	13	Propoxur[2]		0.056	1.4
p-Nitrophenol		0.12	29	Prosulfocarb[2]		0.042	1.4
N-Nitrosodiethylamine		0.40	28	Pyrene		0.067	8.2
N-Nitrosodimethylamine		0.40	2.3[2]	Pyridine		0.014	16
N-Nitroso-di-n-butylamine		0.40	17	Safrole		0.081	22
N-Nitrosomethylethylamine		0.40	2.3	Silvex (2,4,5-TP)		0.72	7.9
N-Nitrosomorpholine		0.40	2.3	1,2,4,5-Tetrachlorobenzene		0.055	14
N-Nitrosopiperidine		0.013	35	Tetrachlorodibenzo-dioxins		.000063	0.001
N-Nitrosopyrrolidine		0.013	35	Tetrachlorodibenzo-furans		.000063	0.001
				1,1,1,2-Tetrachloroethane		0.057	6.0
				1,1,2,2-Tetrachloroethane		0.057	6.0
				Tetrachloroethylene		0.056	6.0
				2,3,4,6-Tetrachlorophenol		0.030	7.4
				Thiodicarb[2]		0.019	1.4

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WASTE MANAGEMENT

Identification of Constituents of Concern for Waste Codes F001-F005, F039 and Underlying Hazardous Constituents (UHCs)

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW Mg/l	NWW Mg/kg
Thiophanate-methyl[2]		0.056	1.4	Antimony		1.9	1.15[1]
Toluene		0.080	10	Arsenic		1.4	5.0[1]
Toxaphene		0.0095	2.6	Barium		1.2	21.0[1]
Triallate[2]		0.042	1.4	Beryllium		0.82	1.22[1,6]
Bromoform (Tribromomethane)		0.63	15	Cadmium		0.69	0.11[1]
1,2,4-Trichlorobenzene		0.055	19	Chromium (Total)	A	2.77	0.60[1]
1,1,1-Trichloroethane		0.054	6.0	Cyanides (Total)		1.2	590
1,1,2-Trichloroethane		0.054	6.0	Cyanides (Amenable)		0.86	30[6]
Trichloroethylene		0.054	6.0	Fluoride[3]		35	NA
Trichloromonofluoromethane		0.020	30	Lead		0.69	0.75[1]
2,4,5-Trichlorophenol		0.18	7.4	Mercury (non-waste water from retort)		NA	0.20[1,2]
2,4,6-Trichlorophenol		0.035	7.4	Mercury (All others)		0.15	0.025[1]
2,4,5-T		0.72	7.9	Nickel		3.98	11.0[1]
1,2,3-Trichloropropane		0.85	30	Selenium		0.82	5.7[1,5]
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30	Silver		0.43	0.14[1]
Triethylamine[2]		0.081	1.5	Sulfide[3]		14	NA
Tris(2,3-dibromopropyl)phosphate		0.11	0.10[2]	Thallium		1.4	0.20[1]
Vernolate[2]		0.042	1.4	Vanadium[3]		4.3	NA 1.6[1]
Vinyl chloride		0.27	6.0	Zinc[3]		2.61	NA 4.3[1]
Xylene(sum of o-,m-,and p- isomers)[4]		0.32	30	2-Ethoxyethanol (F005)[7]		INCIN or BIODG	INCIN
				2-Nitropropane (F005)[7]		INCIN or CHOXD	INCIN

☐ No UHC's apply

1. These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract; all others measured through a total waste analysis.
2. These constituents are only applicable as Underlying Hazardous Constituents. They are not constituents requiring treatment in F039 wastes.
3. Not an underlying hazardous constituent requiring treatment in D001-D043 wastes, per 268.2(i). F039 WW standard only.
4. These compounds are regulated by the sum of their concentration instead of as individual constituents.
5. Effective August 24, 1998 in unauthorized states or states with no LDR program, Selenium at 5.7 Mg/L is not considered an underlying hazardous constituent in D001-D043 waste as it is above the characteristic level. This becomes effective in authorized states once that state adopts.
6. These constituents are applicable as Underlying Hazardous Constituents. F039 WW standard applicable.
7. Waste contains this compound as the only listed F001-F005 solvent.

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Mgr/Sr. Waste Specialist

Signature: Tyler D. Ellingboe Date: 9/23/11

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MOVEMENT DOCUMENT / MANIFEST
DOCUMENT DE MOUVEMENT / MANIFESTE

This Movement document/manifest conforms to all federal and provincial transport and environmental legislation.
Ce document de mouvement/manifeste est conforme aux législations fédérale et provinciale sur l'environnement et le transport.

Movement Document / Manifest Reference No.
N° de référence du document de mouvement/manifeste **9209495-2**

A Generator / consignor — Producteur / expéditeur

Registration No. / Provincial ID No. (1): AKR000203687

Company name / Nom de l'entreprise: Native Village of Northeast Cape

Mailing address / Adresse postale: IRA Council / P.O. Box 120 — City / Ville: Savoonga — Province: NALEMP — Postal code / Code postal: AK 99769

E-mail / Courrier électronique: ryannoq.yuk@yahoo.com — Tel. No. / N° de tél.: 907 984 6414

Shipping site address / Adresse de lieu de l'expédition: 57 Miles ESE of Savoonga, Kitnagak Bay

City / Ville: Savoonga — Province: AK — Postal code / Code postal: 99769

Intended Receiver / consignee — Réceptionnaire / destinataire prévu: Chemical Waste Management of the NW, Inc. — Registration No. / Provincial ID No. (3): ORD089452353

Mailing address / Adresse postale: Same as below — City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique: gfisher@wm.com — Tel. No. / N° de tél.: (541) 454-2643

Receiving site address / Addresse de lieu de l'expédition: 17629 Cedar Springs Lane

City / Ville: Arlington — Province: OR — Postal code / Code postal: 97812

B Carrier — Transporteur

Registration No. / Provincial ID No. (23): WAD981773005

Company name / Nom de l'entreprise: Northland Services, Inc.

Mailing address / Adresse postale: P.O.Box 24527 — City / Ville: Seattle — Province: WA — Postal code / Code postal: 98124

E-mail / Courrier électronique: randyp@northlandservices.com — Tel. No. / N° de tél.: 800 426 3113

Vehicle / Véhicule	Registration No. / N° d'immatriculation	Prov. (24)
Trailer - Rail car No. 1 / 1re remorque - wagon		
Trailer - Rail car No. 2 / 2e remorque - wagon		

Port of entry / Point d'entrée: Dixon Entrance — For customs use only / Réservé aux douanes

Port of exit / Point de sortie (25): Strait of San Juan de Fuca — For customs use only / Réservé aux douanes

Carrier Certification : I certify that I have received waste or recyclable material from the generator / consignor for delivery to the receiver / consignee as set out in Part A and that the information contained in Part B is complete and correct. (26)
Attestation du transporteur : *J'atteste avoir reçu les déchets ou matières recyclables du producteur / expéditeur en vue de leur livraison au réceptionnaire / destinataire, tels qu'ils figurent à la partie A et que les renseignements inscrits à la partie B sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractères d'imprimerie): — Tel. No. / N° de tél. ( )

Year / Année | Month / Mois | Day / Jour — Signature

C Receiver / consignee — Réceptionnaire / destinataire

Reference Nos. of other movement document(s)/manifest(s) used / N° de référence des autres documents de mouvement/manifestes utilisés (27)

Registration No. / Provincial ID No. / N° d'immatriculation - d'id. provincial (28)

Receiver / consignee information same as in Part A
Les renseignements du réceptionnaire / destinataire est la même qu'à la Partie A
☒ Yes / Oui ☐ No, complete the box below / Non, remplir la case ci-dessous

Company name / Nom de l'entreprise

Mailing address / Adresse postale

City / Ville — Province — Postal code / Code postal

E-mail / Courrier électronique — Tel. No. / N° de tél. ( )

Receiving site address / Addresse de lieu de destination

Date received / Date de réception (29): Year / Année | Month / Mois | Day / Jour — Time / Heure ☐ A.M. ☐ P.M.

If waste or recyclable material to be transferred, specify intended company name/ Si les dechets ou matières recyclables doivent être transférés, préciser le nom du destinataire (30)

Registration No./Provincial ID No. / N° d'immatriculation/d'id provincial

Prov. code / Code prov. (3)	Shipping name / Appellation réglementaire (4)	Class / Classe (5) Sub. class(es) / Classe(s) sub.	UN No. / N° NU (6)	Packing / risk gr. / Gr. d'emballage/ de risque (7)	Quantiy shipped / Quantitée expédiée	Units (8) L or / ou Kg Unités	Packaging/Contenant (9) No. / N°	Codes Int.– ext.	Phys. state / État phys. (10)
(i) N/A	RQ, Waste Environmentally Hazardous substances, solid, n.o.s. (lead)	N/A	N/A	N/A	7417	KG	02	06	S
(ii) N/A	RQ, Waste Environmentally Hazardous substances, solid, n.o.s (lead)	N/A	N/A	N/A	29085	KG	04	05	S
(iii)									
(iv)									

Quantity received / Quantité reçue	Units (31) L or / ou kg Unités	Comments / Commentaires (32)	Handling Code / Code de manutention (33)	Shipment / Envoi (34) Accepted / Accepté	Refused / Refusé	Decont. (35) Pack. Cont.	Veh. Véh.

If handling code "Other" (specify) / Si code de manutention « autre » (spécifier) (36)

Notice No. / N° de notification (11)	Notice Line No / N° de ligne de la notification	Shipment / Envoi (12)	Of / De	D or R code / Code D ou R (13)	C code / Code C (14)	Basel Annex VIII or OECD Code / Annexe VIII de Bâle ou Code OCDE (15)	H code / Code H (16)	Y code / Code Y (17)	National code in country of / Code du pays Export / Exportation (18)	Import / Importation	Customs code(s) / Code(s) de douanes (19)
(i) 527835	3	1	10	D5	C18	A1020	H13	Y31	USA	USA	4403.10.0090
(ii) 527835	4	1	10	D5	C18	A1020	H13	Y31 Y18	USA	USA	2621.90.0000
(iii)											
(iv)											

For International use only

Receiver / consignee certification : *I certify that the information contained in Part C is correct and complete. /* ***Attestation du réceptionnaire / destinataire :*** *J'atteste que tous les renseignements à la partie C sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) (37)

Signature — Tel. No. / N° de tél. ( )

Generator / consignor certification: *I certify that the information contained in Part A is correct and complete.*
Attestation du producteur / expéditeur: *J'atteste que tous les renseignements à la partie A sont exacts et complets.*

Name of authorized person (print) / Nom de l'agent autorisé (caractère d'imprimerie) (20): Tyler Ellingboe — Signature: Tyler Ellingboe — Tel. No. / N° de tél.: 907 563-0013

Special handling / Manutention spéciale (22): For 24-Hour Emergency Response, call 1-800-424-9300

☐ Attached /Ci-joint: ☒ As follows/ Ci-contre :

Date shipped / Date d'expédition (21): Year / Année | Month / Mois | Day / Jour — Time / Heure ☐ A.M. ☐ P.M.

Scheduled arrival date / Date d'arrivée prévue: Year / Année | Month / Mois | Day / Jour

MOE 04-1917 (06/05)

Instructions for completion and distribution on reverse / Instructions pour compléter et distribuer au verso

Copy / Copie 1 (white / blanche)

Environment Canada / Environnement Canada

NOTICE – NOTIFICATION

Notice Reference No.: / N° de référence de la notification :	Page : 1 of / de : 2
527835	

Administrative form for proposed movements of hazardous wastes or hazardous recyclable materials
Formulaire administratif en vue de projets d'envois de déchets dangereux et de matières recyclables dangereuses

1 OPTION Indicate the option that applies to this notice. / Indiquez l'option qui s'applique à cette notification.
☑ Disposal / Élimination ☐ Recycling / Recyclage ☐ Recycling, Pre-approved Facility / Recyclage, Installation approuvée au préalable

2 EXPORTER OR FOREIGN EXPORTER / EXPORTATEUR OU EXPÉDITEUR ÉTRANGER

Registration Number: / N° d'immatriculation : AKR000203687

Name: / Nom : NATIVE VILLAGE OF NORTHEAST CAPE

Address: / Adresse :
Native Village of Savoonga
IRA Council/Savoonga NALEMP
P.O. Box 160
Savoonga, Alaska
99769

Shipping Site Address: / Adresse du site d'envoi :
Native Village of Northeast Cape
57 Miles ESE of Savoonga,
Kitnagak Bay
Savoonga, Alaska
99769

Tel. No.: / N° de tél. : (907) 984-6414
Fax No.: / N° de téléc. : (907) 984-6027
E-mail address: / Adresse électronique : ryannogiyuk@yahoo.com
Contact person: / Personne ressource : ROBERT ANNOGIYUK
Name of Insurance Company: / Nom de l'assureur : FEDERAL TRIBE
Policy No.: / N° de Police : SELF-INSURED

3 FOREIGN RECEIVER OR IMPORTER / DESTINAIRE ÉTRANGER OU IMPORTATEUR

Registration Number: / N° d'immatriculation : ORD089452353

Name: / Nom : Chemical Waste Management of the Northwest, Inc.

Address: / Adresse :
17629 Cedar Springs Lane
Arlington, OR 97812-9709

Receiving Site Address: / Adresse du site de réception :
17629 Cedar Springs Lane
Arlington, OR 97812-9709

Tel. No.: / N° de tél. : (541) 454-2643
Fax No.: / N° de téléc. : (541) 454-3282
E-mail address: / Adresse électronique : GFISHER@WM.COM
Contact Person: / Personne ressource : GARY FISHER
Name of Insurance Company: / Nom de l'assureur : ACE American Insurance Company
Policy No.: / N° de Police : HDO G225524937

4 AUTHORIZED CARRIER / TRANSPORTEUR AGRÉÉ

Registration Number: / N° d'immatriculation : WAD981773005

Name: / Nom : NORTHLAND SERVICES, INC.

Address: / Adresse :
P.O. BOX 24527
SEATTLE, WA 98124

Modes of Transport: / Moyens de transport :
☑ Road/Route
☑ Rail/Rail
☑ Marine/Mer
☐ Air/Air

If other authorized carriers used, attach a list.
S'il y a d'autres transporteurs agréés, annexez une liste.
☑ Attached / ci-joint

Tel. No.: / N° de tél. : ~~(800) 426-3113~~
Fax No.: / N° de téléc. : ~~(206) 767-5579~~
E-mail address: / Adresse électronique : randyp@northlandservices.com
Contact person: / Personne ressource : RANDY PICKETT
Name of Insurance Company: / Nom de l'assureur : XL Specialty Insurance Company
Policy No.: / N° de Police : UM00018388EL10A

5 AUTHORIZED FACILITY / INSTALLATION AGRÉÉE (IF OPERATION D13, D14, D17, R12 R13, R16) / (DANS LE CAS DES OPÉRATIONS D13, D14, D17, R12, R13 OU R16)

Registration Number: / N° d'immatriculation :

Name: / Nom :

Address: / Adresse :

Receiving Site Address: / Adresse du site de réception :

☐ Attached / ci-joint

Line No.: / N° de la ligne. :
D/R code: / Code D/R :
Tel. No.: / N° de tél. : ( )
Fax No.: / N° de téléc. : ( )
E-mail address: / Adresse électronique :
Contact person: / Personne ressource :

SHIPPING DETAILS – DÉTAILS SUR LES ENVOIS

6 NUMBER OF SHIPMENTS / NOMBRE D'ENVOIS : 10

7 PORT OF EXIT / ENTRY OR CUSTOMS OFFICE(S) / BUREAU(X) DE DOUANE OU POINT DE SORTIE/D'ENTRÉE : Dixon Entrance/Strait of San Juan de Fuca ☐ Attached / ci-joint

8 FIRST AND LAST SHIPMENTS / PREMIER ET DERNIER ENVOIS :

	Y - A	M - M	D - J
First / Premier	11	09	01
Last / Dernier	12	08	25

9 TRANSIT COUNTRY(IES) / PAYS DE TRANSIT Country / Pays : CANADA Length of Stay / Durée du transit : 1-3 DAYS ☐ Attached / ci-joint

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX - (For additional hazardous information please see Appendix to the Notice. Veuillez consulter l'annexe à la notification pour des renseignements dangereux supplémentaires.)

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
1) Q15//D5//S22//C18//H13//A830//Y31+Y18	A1020	N/A	N/A	50,000 ☑ kg ☐ L	N/A

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre
2621.90.00 00	L17 - LEAD	N/A	D5 - SPECIALLY ENGINEERED LANDFILL

11 EXPORTS OF HAZARDOUS WASTE: Options considered for reducing or phasing out of the waste and the reason the disposal is happening outside of Canada
EXPORTATION DE DÉCHETS DANGEREUX : Solutions envisagées pour réduire ou pour supprimer les déchets et les raisons pour l'élimination en lieu étranger
N/A

12 STATEMENT OF PERSON SUBMITTING THE NOTICE: In the case of an export or import, the contract(s) referred to in paragraphs 9(f) or 16(e) is/are in force and if the waste or material cannot be disposed of or recycled in accordance with the export or import permit, the exporter or importer will undertake alternative arrangements required under the Regulations or will return the waste or material to the facility from which it was imported in accordance with s. 34 or 35. In the case of an export, import or transit, the insurance policy will cover the period specified by the Regulations and the information in the notice is complete and correct.

DÉCLARATION PAR L'AUTEUR DE LA NOTIFICATION : Dans le cas d'une exportation ou d'une importation, le(s) contrat(s) visé(s) aux alinéas 9f) ou 16e) est (sont) en vigueur et si les déchets ou les matières ne peuvent être éliminés ou recyclés conformément au permis d'exportation ou d'importation, l'exportateur ou l'importateur mettra en oeuvre les mesures d'arrangements alternatifs prévues au Règlement ou à les ramener à l'installation d'origine conformément aux articles 34 ou 35. Dans le cas d'une exportation, d'une importation ou d'un transit, la police d'assurance sera en vigueur pour la période visée par le Règlement, et les renseignements figurant à la notification sont complets et exacts.

Name: / Nom :	Signature:	Date:	Tel. No.: / N° de tél. :
TYLER ELLINGBOE	Tyler J. Ellingboe	JULY 8, 2011	(907) 563-0013

Environment Canada / Environnement Canada

APPENDIX TO THE ADMINISTRATIVE NOTICE FORM
(Supplemental Waste Streams)
ANNEXE AU FORMULAIRE ADMINISTRATIF DE NOTIFICATION
(flux de déchets supplémentaires)

Notice Reference No.: / N° de référence de la notification :	Page : / of / de :
527835	2 of / de 2

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 2

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
Q15//D5//S23//C18+C11//H13//A830//Y31+Y26	A1020	N/A	N/A	100,000 ☑kg ☐L	N/A

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre
7802.00.00 90	L17 - LEAD	N/A	D5 - SPECIALLY ENGINEERED LANDFILL

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 3

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
Q15//D5//S41//C18//H13//A830//Y31	A1020	N/A	N/A	100,000 ☑kg ☐L	N/A

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre
4403.10.00 90	L17 - LEAD	N/A	D5 - SPECIALLY ENGINEERED LANDFILL

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 4

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
Q15//D5//S23//C32//H12//A830//Y10	A3180	UN3432	9	100,000 ☑kg ☐L	II

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre
2710.91.99 00	Polychlorinated Biphenyls, 50-500 mg/kg	POP9, PCBs 50-500 mg/kg	D5 - SPECIALLY ENGINEERED LANDFILL

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 5

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
Q15//D5//S10//C32//H12//A830//Y10	A3180	UN3432	9	100,000 ☑kg ☐L	II

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre
2710.91.99 00	Polychlorinated Biphenyls, 50-500 mg/kg	POP9, PCBs 50-500 mg/kg	D5 - SPECIALLY ENGINEERED LANDFILL

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 6

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
				☑kg ☐L	

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 7

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
				☐kg ☐L	

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre

10 HAZARDOUS INFORMATION / RENSEIGNEMENTS DANGEREUX — Line / Ligne 8

International Waste Identification Code (IWIC) / Code international d'identification des déchets (CIID)	Basel Annex VIII or OECD App. 4 Code / Annexe VIII de Bâle ou App. 4 Code OCDE	TDGR PIN / NIP du RTMD	Class / Classe	Quantity / Quantité	Packing / Risk Group / Groupe d'emballage/ risque
				☐kg ☐L	

Customs Code / Code de douane	ID No & Description of Sch. 3-7 / N° d'id. et description de l'Ann. 3 à 7	POP name, quant. & conc. / POP nom, quant. et conc.	Description(s) of the D/R process(es) to be used / Description(s) du (des) processus D/R mis en oeuvre

Name: / Nom :	Signature	Date:	Tel. No.: / N° de tél. :
TYLER ELLINGBOE	Tyler S. Ellingboe	JULY 8, 2011	(907) 563-0013

Additional Transporter List

Transit Notice #: 527835

Registration #:	WAH000016683
Transporter Name:	Roadlink
Transporter Address:	3433 Airport Way South #A Seattle, WA 98134
Phone Number:	(206) 903-8300
Fax Number:	(206) 903-1984
Contact Person:	Bobbi Stanworth
E-Mail Address:	RLTSSeattle@roadlink.com
Name of Insurance Company:	ACE American Insurance Company
Policy Number:	HDO G25525607
Mode of Transport:	Road
Registration #:	NED001792910
Transporter Name:	Union Pacific Railraod
Transporter Address:	1400 Douglas Street Omaha, NE 68179
Phone Number:	(402) 544-5000
Fax Number:	(402) 501-3019
Contact Person:	Jeff Dukes
E-Mail Address:	jadukes@up.com
Name of Insurance Company:	Self-Insured
Policy Number:	Self-Insured
Mode of Transport:	Rail

Environment Canada / Environnement Canada

Tyler Ellingboe
Bristol Environmental Remediation Services LLC.
111 W. 16th Avenue, Third Floor
Anchorage, Alaska
United States of America
99501-5109

05 August 2011 / 05 août 2011

TRANSIT PERMIT FOR HAZARDOUS WASTES
Issued Under Subparagraph 185(1)(*b*)(ii) of the *Canadian Environmental Protection Act, 1999*
PERMIS DE TRANSIT POUR DÉCHETS DANGEREUX
Délivré en vertu du sous-alinéa 185(1)*b*)(ii) de la *Loi canadienne sur la protection de l'environnement (1999)*

File Number / No. de dossier : 11/00070/TRS

This TRANSIT PERMIT is issued to Bristol Environmental Remediation Services LLC. in accordance with subparagraph 185(1)(*b*)(ii) of the *Canadian Environmental Protection Act, 1999* (CEPA 1999) for the transit of the hazardous wastes described below from the United States of America through Canada on route to the United States of America.

Le présent PERMIS DE TRANSIT est délivré à Bristol Environmental Remediation Services LLC. en vertu du sous-alinéa 185(1)(*b*)(ii) de la *Loi canadienne sur la protection de l'environnement (1999)* (LCPE (1999)) pour le transit des déchets dangereux décrits ci-après des États-Unis d'Amérique par le Canada à destination des États-Unis d'Amérique.

This TRANSIT PERMIT is valid for the period of 05 August 2011 to 04 August 2012.

Ce PERMIS DE TRANSIT est valide du 05 août 2011 au 04 août 2012.

Wastes Description for 5 Hazardous Wastes/
Description de déchets pour 5 déchets dangereux

1) Q15//D05//S22//C18//H13//A830//Y31+18
PIN / NIP : N/A
Class / Classe : N/A
Quantity / Quantité : 50,000 kg
HS Code / Code HS : 2621.90.00.00
Notice / Notification : 527835
EIHWHRMR ID # /
No. d'identité REIDDMRD : L017
Basel Code / Code Bâle : A1020
Packing Group / Groupe d'emballage : N/A

2) Q15//D05//S23//C18+11//H13//A830//Y31+26

PIN / NIP : N/A	EIHWHRMR ID # /
Class / Classe : N/A	No. d'identité REIDDMRD : L017
Quantity / Quantité : 100,000 kg	Basel Code / Code Bâle : A1020
HS Code / Code HS : 7802.00.00.90	Packing Group / Groupe d'emballage : N/A
Notice / Notification : 527835	

3) Q15//D05//S41//C18//H13//A830//Y31

PIN / NIP : N/A	EIHWHRMR ID # /
Class / Classe : N/A	No. d'identité REIDDMRD : L017
Quantity / Quantité : 100,000 kg	Basel Code / Code Bâle : A1020
HS Code / Code HS : 4403.10.00.90	Packing Group / Groupe d'emballage : N/A
Notice / Notification : 527835	

4) Q15//D05//S23//C32//H12//A830//Y10

PIN / NIP : UN3432	EIHWHRMR ID # /
Class / Classe : 9	No. d'identité REIDDMRD : N/A
Quantity / Quantité : 100,000 kg	Basel Code / Code Bâle : A3180
HS Code / Code HS : 2710.91.99.00	Packing Group / Groupe d'emballage : II
Notice / Notification : 527835	

5) Q15//D05//S10//C32//H12//A830//Y10

PIN / NIP : UN3432	EIHWHRMR ID # /
Class / Classe : 9	No. d'identité REIDDMRD : N/A
Quantity / Quantité : 100,000 kg	Basel Code / Code Bâle : A3180
HS Code / Code HS : 2710.91.99.00	Packing Group / Groupe d'emballage : II
Notice / Notification : 527835	

From / De:	**To / À:**
Native Village of Northeast Cape 57 Miles ESE of Savoonga, Kitnagak Bay Savoonga, Alaska United States of America 99769	Chemical Waste Management 17629 Cedar Springs Lane Arlington, Oregon United States of America 97812

3 Authorized Carriers / 3 Transporteurs Agréés

Northland Services Inc.
Roadlink
Union Pacific Railroad

2 Ports of Entry, Exit and Customs Offices /
2 Points d'entrée, de sortie et bureaux de douane

EN:Dixon Entrance (Marine Movements)

EX:Exit from the Strait of Juan de Fuca (Marine Movements)

Please take note that it is your responsibility to ensure that the requirements set out in the *Export and Import of Hazardous Waste and Hazardous Recyclable Material*

Veuillez prendre note qu'il vous incombe de vous assurer que vous respectez, lors du transit des déchets dangereux décrits dans ce permis transitant le Canada, les exigences

Regulations (EIHWHRMR) made pursuant to CEPA 1999 are complied with during the time of the movement of the hazardous wastes described in this permit while it is transiting through Canada. This includes, but is not limited to, ensuring that the authorized carriers of the hazardous wastes described in this permit are insured in accordance with section 37 of the EIHWHRMR.

établies dans le _Règlement sur l'exportation et l'importation de déchets dangereux et de matières recyclables dangereuses_ (REIDDMRD) pris en vertu de la LCPE (1999). Ces exigences comprennent notamment l'obligation de vous assurer que les transporteurs agréés des déchets dangereux décrits dans ce permis, détiennent une police d'assurance conformément à l'article 37 du REIDDMRD.

It is your responsibility to ensure that you are in compliance with all other applicable Canadian laws.

Vous devez vous assurer de respecter toutes les autres lois canadiennes applicables.

The transit of hazardous wastes or hazardous recyclable materials, in violation of CEPA 1999 or the EIHWHRMR, may be prosecuted as an offence under section 272 or 273 of CEPA 1999.

Tout transit de déchets dangereux ou de matières recyclables dangereuses qui contrevient à la LCPE (1999) ou au REIDDMRD peut entraîner une poursuite pénale en vertu de l'article 272 ou 273 de la LCPE (1999).

Signed for and on behalf of the Minister of the Environment /
Signé au nom du ministre de l'Environnement



Tim Gardiner
Director / Directeur
Waste Reduction & Management / Réduction et gestion des déchets
Public and Resources Sectors / Secteurs publics et des ressources
Environment Canada / Environnement Canada

FINAL DISPOSAL FACILITY
PAPERWORK PACKAGE

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BILL OF LADING ORIGINAL-NOT NEGOTIABLE

Bill of lading instructions as given by shipper of his represenative

Date:	Booking No.	Vessel and Voyage No.	Bill of lading No.
9-30-11	732091	W109	013
Consignee:	**Port of Discharge:**	**Destination:**	**Beyond Carrier:**
Bristol	Seattle	Columbia Ridge Landfill	Waste Management

SHIPPER:	CONSIGNEE:	Charter:
Bristol Environmental Remediations Services, LLC 111 W 16th Ave, Third Floor, Anchorage AK	Bristol Environmental Remediations Services, LLC NE Cape, St Lawrence Is, AK	Bill To: Bristol Environmental Remediations Services, LLC 111 W. 16th Ave, Third Floor Anchorage, AK 99501
Telephone 907-563-0013	Telephone 907-563-0013	

Incoming Carrier				Incoming Carriers advance charges $	
Containor or P.F.	**HM**	**No of Pieces**	**Kind of PKG**	**Commodity Description**	**Gross Weight in lbs**
WMXU 6310		1	CS	6ea Overpack drums of bagged Asbestos	Tare 4,920
					Gross 6,920

In accepting the bill of lading the shipper agrees that the custody and carriage of the goods identified shall be subject to the terms and conditions of this bill of lading and carrier's tariff or applicable contract of affreightment, which shall govern the relations, whatsoever they may be, between the carrier and the shipper, owner and/or consignee of the goods, in every contingency and whatsoever occurring.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

SHIPPER Charles L. Copley DATE: 9-30-11

it is declared that the packing of the container has been carried out in accordance with the provisions of 49 CFR 176.27©

SHIPPER DATE:

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: AKR000203687

Manifest Document No.: ACM01

2. Page 1 of 2

3. Generator's Name and Mailing Address: Native Village of Northeast Cape
P.O. Box 120, Attn: Savoonga IRA Council
Savoonga, AK 99769

4. Generator's Phone (907) 984-6414

5. Transporter 1 Company Name: Northland Services, Inc.

6. US EPA ID Number: WAD 981773005

A. State Transporter's ID

B. Transporter 1 Phone: (800) 426-3113

7. Transporter 2 Company Name: Roadlink

8. US EPA ID Number: WAH 000016683

C. State Transporter's ID

D. Transporter 2 Phone: (206) 903-8300

9. Designated Facility Name and Site Address: Columbia Ridge Landfill & Recycling Center
18177 Cedar Springs Lane
Arlington, OR 97812-6512

10. US EPA ID Number: ORD987173457

E. State Facility's ID

F. Facility's Phone: (541) 454-2030

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
HM				
a. X NA NA2212, Asbestos, 9, III, RQ = 1 pound	5	DM	1900	P
b. N/A				
c.				
d.				

DEC 13 2011
BRISTOL

G. Additional Descriptions for Materials Listed Above

a) 1091910R ACM Construction debris Container #WMXU6310
Container Type: 20' open top

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Please mail ~~WRINK~~ ORIGINAL Manifest and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501
For 24-hour emergency response, call 1-800-424-9300

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date (Month / Day / Year)
Tyler Ellingboe On Behalf of Savoonga IRA Council	Tyler S. Ellingboe	09 / 23 / 11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
X Dan Klein		9 / 30 / 11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
TARAS Hlady		11 / 21 / 11

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Sarah Mastriano	Sarah Mastriano	11 / 29 / 11

NON-HAZARDOUS WASTE

F-14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

PRINTED WITH SOY INK

Rev. 3/95

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039.

NON

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No.	Manifest Document No.	22. Page	Information in the shaded areas is not required by Federal law.
AKR000203687	ACM01	2 of 2	

23. Generator's Name: Native Village of Northeast Cape

L. State Manifest Document Number:

M. State Generator's ID:

24. Transporter 3 Company Name	25. US EPA ID Number	N. State Transporter's ID
Union Pacific Railroad	NED001792910	O. Transporter's Phone (402) 544-5000
26. Transporter Company Name	27. US EPA ID Number	P. State Transporter's ID
Columbia Ridge Landfill	ORD987173457	Q. Transporter's Phone (541) 454-2030

	28. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	29. Containers No.	Type	30. Total Quantity	31. Unit Wt/Vol	R. Waste No.
a.							
b.							
c.							
d.							
e.							
f.							
g.							
h.							
i.							

DEC 13 2011
BRISTOL

S. Additional Descriptions for Materials Listed Above: For Transportation Only

T. Handling Codes for Wastes Listed Above:

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Cindi Cruz	Cindi Cruz	11 21 11

34. Transporter ____ Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
A Timmerman	A Timmerman	11 22 11

FACILITY

35. Discrepancy Indication Space

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 55474

187649

Customer Name BRISTOL ENVIRONMENTAL BRISTOL
Ticket Date 11/22/2011
Payment Type Credit Account
Manual Ticket# 742759
Hauling Ticket#
Destination UP/ROAD LINK
Profile 1091910R (NON FRIABLE ASBESTOS CONSTRUCTION DEBRIS-CM)
Generator OR-NATIVE VILLAGE OF NE CAPE NATIVE VILLAGE OF NORTHEAST CAPE

Carrier 6000
Vehicle# 6310
Container 6310
Billing # 0000552
Manifest ACM01
PO 1091910R

Volume

	Time	Scale	Operator	Inbound		
In	11/22/2011 09:54:30	MANUAL WT	JVALDEZ		Gross	44520 lb*
Out	11/22/2011 09:54:30	MANUAL WT	JVALDEZ		Tare	42840 lb*
			* Manual Weight		Net	1680 lb
					Tons	0.84

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	0.84	Tons				AK-SAVOOGN
2	RAIL U SPW-RAIL UN	100	1	Load				AK-SAVOOGN
3	LOC U SPW-LOCAL TR	100	1	Load				AK-SAVOOGN
4	PICK FEE SPW-PICK	100	1	Load				AK-SAVOOGN
5	FEA T SPW-FUEL,ENV	100	0.84	Tons				AK-SAVOOGN
6	LINER SPW-LINER UN	100	1	Each				AK-SAVOOGN
7	DEL U SPW-DELIVERY	100	1	Each				AK-SAVOOGN

RECEIVED
DEC 19 2011
BRISTOL

902-Arlington

Oregon Waste Systems
A Waste Management Company
WASTE MANAGEMENT
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

'11 NOV 23 PM 1:20

No. 742759

DATE/TIME: _____
LOAD DATE: _____
CUSTOMER: Bristol Env. / Native Village
PROFILE NUMBER: 1091910R
TRUCK NUMBER: 11/22/11 5:30
TRAILER/CONTAINER NUMBER: 6310
SEAL NUMBER: _____
CUSTOMER INVOICE NO.: ACM01
GROSS WEIGHT: 44520
TARE WEIGHT-TRACTOR: _____
TARE WGT-TRAILER/CONTAINER: 42840
NET WEIGHT: 1680

GATEHOUSE: Lbr
DRIVER: Mickey D
TRAIN ID: _____ ORIGIN: OXOB1
WASTE TYPE: Non-Friable Asbestos
DISPOSAL: _____ CM DC BU GRID SEGREGATE
REMARKS: _____

HAULER: Roadlink
DEC 19 2011
BRISTOL

COLUMBIA RIDGE LANDFILL & RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

18177 Cedar Springs Lane
Arlington, OR 97812
(541) 454-2030
(541) 454-3312 Fax

November 30, 2011

DEC 1 3 2011
BRISTOL

Bristol Environmental
111 W. 16th Ave. Suite 301
Anchorage, AK 99501

CERTIFICATE OF DISPOSAL

Waste Management, Inc. dba Columbia Ridge Landfill has received NON HAZARDOUS Waste material from the Native Village of Northeast Cape on behalf of Bristol Environmental.

Date of Disposal:	November 29, 2011
Profile #:	109191OR
Manifest #:	ACM01
Container #:	WMXU6310
Pounds Disposed:	1680 lbs.
Waste Type:	PCS

I certify, on behalf of the above listed facility, that the above-described non hazardous waste was managed in compliance with all applicable laws.

Sarah Mastriona

Sarah Mastriona
Special Waste Scale Clerk

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BILL OF LADING ORIGINAL-NOT NEGOTIABLE

Bill of lading instructions as given by shipper of his represenative

Date:	Booking No.	Vessel and Voyage No.	Bill of lading No.
9-30-11	F32091	W109	008
Consignee:	**Port of Discharge:**	**Destination:**	**Beyond Carrier:**
Bristol	Seattle	Columbia Ridge Landfill	Waste Management

SHIPPER:	CONSIGNEE:	Charter:
Bristol Environmental Remediations Services, LLC 111 W 16th Ave, Third Floor, Anchorage AK	Bristol Environmental Remediations Services, LLC NE Cape, St Lawrence Is, AK	Bill To: Bristol Environmental Remediations Services, LLC 111 W. 16th Ave, Third Floor Anchorage, AK 99501
Telephone 907-563-0013	Telephone 907-563-0013	

Incoming Carrier				Incoming Carriers advance charges $	
Containor or P.F.	**HM**	**No of. Pieces**	**Kind of PKG**	**Commodity Description**	**Gross Weight in lbs**
WMXU 6079		1	CS	Lead based Paint Wood Debris	Tare 4,920
					Gross 14,700

In accepting the bill of lading the shipper agrees that the custody and carriage of the goods identified shall be subject to the terms and conditions of this bill of lading and carrier's tariff or applicable contract of affreightment, which shall govern the relations, whatsoever they may be, between the carrier and the shipper, owner and/or consignee of the goods, in every contingency and whatsoever occurring.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked , and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

SHIPPER Charles L. Cooley DATE: 9-30-11

It is declared that the packing of the container has been carried out in accordance with the provisions of 49 CFR 176.27©

SHIPPER DATE:

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	AKR000203687	2	(800) 424-9300	004376101 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 320
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD 981773005

7. Transporter 2 Company Name: RoadLink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address
CWM, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD098452253

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, Waste Environmentally hazardous substances, solid, N.O.S. (Lead), 9, PGIII, RQ = 10 pounds	001	CM	9,780	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) OR306102 - Construction debris with lead; ERG #171; Container # UMXU6625 Type: 20' open-top Conex; please mail original manifest seal ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501 9360P

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe on Behalf of Savoonga IRA Council — Signature: Tyler A Ellingboe — Month: 09 — Day: 23 — Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Don Klein — Signature: — Month: 9 — Day: 30 — Year: 11

Transporter 2 Printed/Typed Name: AVATO CUY — Signature: — Month: 11 — Day: 21 — Year: 11

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H111			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Janice Strand — Signature: — Month: 11 — Day: 28 — Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

A164120

Form Approved. OMB No. 2050-0039

(for use on elite (12-pitch) typewriter.)

HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	AKR000203687		004376101FLE

24. Generator's Name

NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials

Printed/Typed Name: Cindi Cresp — Signature: Cindi Cresp — Month: 11 — Day: 21 — Year: 11

34. Transporter 4 Acknowledgment of Receipt of Materials

Printed/Typed Name: A Timmerman — Signature: A Timmerman — Month: 11 — Day: 22 — Year: 11

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

ste Management
The Northwest
Cedar Springs Lane
ington, Oregon 97812
541-454-2643
EPA I.D.# ORD089452353

D NO. 446428

MANIFEST DOC. NO. #6079

INBOUND
T/D: 15:28:09 2011-11-28
ID: 6079 TRK ID:
55580 lb G

OUTBOUND
T/D: 15:39:44 2011-11-28
ID: 6079 TRK ID:
55580 lb G
46220 lb PT
9360 lb N

NET 4.68 TONS

GENERATOR Native Village of NE Cape

STRICTION (LDR) NOTIFICATION AND CATION FORM (PHASE IV)

Cape

fest Number: 004376101FLE

R THE SUBCATEGORY DESCRIPTION able, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
TION	NONE	
	✓	A

k ONE: ☑ Non-Wastewater ☐ Wastewater
alternate treatment standards in 268.45, check here: ☑

Is waste shipment, as defined by 40 CFR 261.
cation Supplemental Form (CWM-2005-D) and check here: ☐

s, or check NONE if the waste code has no subcategory.

how the waste must be managed to comply with the land disposal restriction
D, you are certifying that the waste meets all the Land Disposal Restrictions and may
ing that the waste has been decharacterized, but still requires treatment for UHCs.
ry citations different from the 40 CFR citations listed on this form. Where these
te citations as well as 40 CFR.)

ing hazardous constituents (UHCs) for D001-D043, must be identified unless the
apply, check appropriate box below:
e the Identification of Constituents of Concern Form (CWM-2007) and check here: ☐
n, check here: ☑
cept dioxins), check here: ☐

~~cfr in 40 CFR 268.49~~

familiar with the treatment technology and operation of the treatment process used
mmediately responsible for obtaining this information, I believe that the treatment
h the treatment standards specified in 40 CFR 268.40 without impermissible dilution
ubmitting a false certification including the possibility of fine and imprisonment."

s

familiar with the treatment technology and operation of the treatment process used
mmediately responsible for obtaining this information, I believe that the non-
as specified in 268.42 Table 1. I have been unable to detect the non-wastewater
r such constituents, I am aware that there are significant penalties for submitting a

AZARDOUS CONSTITUENTS

dance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous
us constituents that require further treatment to meet treatment standards. I am
tion, including the possibility of fine and imprisonment."

s

dance with the requirements of 40CFR 268.45. I am aware that there are significant
e and imprisonment."

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe on Behalf of Savoonga IRA Council Title: Project Mgr./Sr. Waste Specialist

Signature: Tyler T. Ellingboe Date: 9/23/11

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WASTE MANAGEMENT

CHEMICAL WASTE MANAGEMENT OF THE NW
17629 Cedar Springs Lane
Arlington, OR 97812
(541) 454-2643
(541) 454-3279 Fax

NATIVE VILLAGE OF NORTHEAST
AKR000203687
57 MILES ESE OF SAVOONGA
SAVOONGA AK 99769

CERTIFICATE OF DISPOSAL

Chemical Waste Management of the Northwest, Inc., ORD089452353, has received the following waste material:

GENERATOR:	NATIVE VILLAGE OF NORTHEAST
MANIFEST #:	004376101FLE
CWM TRACKING ID:	416428-01
PROFILE #:	OR306102
LINE ITEM:	9b.1
QUANTITY:	1 CM
RECEIVED DATE:	11/28/11
DISPOSAL PROCESS(ES):	MICROENCAPSULATION FOLLOWED BY LANDFILL
FINAL DISPOSAL LOCATION:	LANDFILL 14
DISPOSAL DATE:	11/29/11

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste material was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Summers

CWMNW RECORDS DEPARTMENT
Date: 12/06/11

Bristol
ENVIRONMENTAL REMEDIATION SERVICES, LLC

BILL OF LADING ORIGINAL-NOT NEGOTIABLE

Bill of lading instructions as given by shipper of his represenative

Date:	Booking No.	Vessel and Voyage No.	Bill of lading No.
9-30-11	732091	W109	009
Consignee:	**Port of Discharge:**	**Destination:**	**Beyond Carrier:**
Bristol	Seattle	Columbia Ridge Landfill	Waste Management

SHIPPER:	**CONSIGNEE:**	**Charter:**
Bristol Environmental Remediations Services, LLC 111 W 16th Ave, Third Floor, Anchorage AK	Bristol Environmental Remediations Services, LLC NE Cape, St Lawrence Is, AK	Bill To: Bristol Environmental Remediations Services, LLC 111 W. 16th Ave, Third Floor Anchorage, AK 99501
Telephone 907-563-0013	Telephone 907-563-0013	

Incoming Carrier				Incoming Carriers advance charges $	
Containor or P.F.	**HM**	**No of Pieces**	**Kind of PKG**	**Commodity Description**	**Gross Weight in lbs**
WMXU 6023		1	CS	Lead based Paint Wood Debris	Tare 4,888
					Gross 11,460

In accepting the bill of lading the shipper agrees that the custody and carriage of the goods identified shall be subject to the terms and conditions of this bill of lading and carrier's tariff or applicable contract of affreightment, which shall govern the relations, whatsoever they may be, between the carrier and the shipper, owner and/or consignee of the goods, in every contingency and whatsoever occurring.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked , and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

SHIPPER Charles Le Cosby DATE: 9-30-11

it is declared that the packing of the container has been carried out in accordance with the provisions of 49 CFR 176.27©

SHIPPER DATE:

414429

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
AKR000203687	2	(800) 424-9300	00437610 2 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name
Northland Services, Inc.
U.S. EPA ID Number
WAD 981773005

7. Transporter 2 Company Name
Roadlink
U.S. EPA ID Number
MAH000016683

8. Designated Facility Name and Site Address CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, Waste Environmentally hazardous Substances, solid, N.O.S. (Lead), 9, PGIII, RQ RQ = 10 pounds	001	cm	6,572	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
LF OR300102 - Construction debris with lead; ERG #171; Container # [redacted] WMXU6023
Type: 20' open-top Conex; please mail original manifest seal ticket, and CD to:
Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe On Behalf Of Savoonga IRA Council
Signature: [signature]
Month: 09 Day: 23 Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Dan Klein
Signature: [signature]
Month: 9 Day: 30 Year: 11

Transporter 2 Printed/Typed Name: TARAS KILCES
Signature: [signature]
Month: 11 Day: 21 Year: 11

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H111			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tonia Stard
Signature: [signature]
Month: 11 Day: 30 Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. TRANSPORTER'S COPY

416429

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
]	AKR000203687		004376102FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information: FOR TRANSPORTATION ONLY

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Cindi Cregg — Signature: Cindi Cregg — Month: 11 Day: 21 Year: 11

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: Nicole Wetherell — Signature: Nicole Wetherell — Month: 11 Day: 22 Year: 11

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

Waste Management
of The Northwest
29 Cedar Springs Lane
Arlington, Oregon 97812
541-454-2643
EPA I.D.# ORDO89452353

LOAD NO. 416429

MANIFEST DOC. NO.

INBOUND
T/D: 13:42:04 2011-11-30
ID: 6023 TRK ID:
50680 lb G

OUTBOUND
T/D: 14:01:44 2011-11-30
ID: 6023 TRK ID:
50680 lb G
44540 lb PT
6140 lb N

NET 3.07 TONS

GENERATOR Native Village

STRICTION (LDR) NOTIFICATION AND CATION FORM (PHASE IV)

t Cape

ifest Number: 004376102FLE

R THE SUBCATEGORY DESCRIPTION able, simply check NONE)		4. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
PTION	NONE	
	✓	A

ck ONE: ☑ Non-Wastewater ☐ Wastewater
alternate treatment standards in 268.45, check here: ☑

his waste shipment, as defined by 40 CFR 261.
cation Supplemental Form (CWM-2005-D) and check here: ☐

es, or check NONE if the waste code has no subcategory.

s how the waste must be managed to comply with the land disposal restriction
D, you are certifying that the waste meets all the Land Disposal Restrictions and may
ving that the waste has been decharacterized, but still requires treatment for UHCs.
ory citations different from the 40 CFR citations listed on this form. Where these
ate citations as well as 40 CFR.)

ving hazardous constituents (UHCs) for D001-D043, must be identified unless the
s apply, check appropriate box below:
e the Identification of Constituents of Concern Form (CWM-2007) and check here: ☐
on, check here: ☑
xcept dioxins), check here: ☐

rth in 40 CFR 268.40.

familiar with the treatment technology and operation of the treatment process used immediately responsible for obtaining this information, I believe that the treatment h the treatment standards specified in 40 CFR 268.40 without impermissible dilution submitting a false certification including the possibility of fine and imprisonment."

S

familiar with the treatment technology and operation of the treatment process used immediately responsible for obtaining this information, I believe that the non- s as specified in 268.42 Table 1. I have been unable to detect the non-wastewater or such constituents. I am aware that there are significant penalties for submitting a

AZARDOUS CONSTITUENTS

rdance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous us constituents that require further treatment to meet treatment standards. I am ation, including the possibility of fine and imprisonment."

DS.

rdance with the requirements of 40CFR 268.45. I am aware that there are significant ne and imprisonment."

ance, or a case-by-case extension. Enter the effective date of prohibition in column (4) above.

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D and LAC 33: V. 2223-2233. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Name: (Print) Tyler Ellingboe On Behalf Of Savoonga IRA Council Title: Project Manager/Sr. Waste Specialist

Signature: Tyler S. Ellingboe Date: 9/23/11

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WASTE MANAGEMENT

CHEMICAL WASTE MANAGEMENT OF THE NW
17629 Cedar Springs Lane
Arlington, OR 97812
(541) 454-2643
(541) 454-3279 Fax

NATIVE VILLAGE OF NORTHEAST
AKR000203687
57 MILES ESE OF SAVOONGA
SAVOONGA AK 99769

CERTIFICATE OF DISPOSAL

Chemical Waste Management of the Northwest, Inc., ORD089452353, has received the following waste material:

GENERATOR:	NATIVE VILLAGE OF NORTHEAST
MANIFEST #:	004376102FLE
CWM TRACKING ID:	416429-01
PROFILE #:	OR306102
LINE ITEM:	9b.1
QUANTITY:	1 CM
RECEIVED DATE:	11/28/11
DISPOSAL PROCESS(ES):	MICROENCAPSULATION FOLLOWED BY LANDFILL
FINAL DISPOSAL LOCATION:	LANDFILL 14
DISPOSAL DATE:	12/01/11

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste material was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Becky Summers

CWMNW RECORDS DEPARTMENT
Date: 12/06/11

Northland Services, Inc.

B/L No. 408052

P. O. Box 24527 • Seattle, WA 98124
(206) 763-3000 (800) 426-3113 Fax (206) 767-5579

BILL OF LADING ORIGINAL - NOT NEGOTIABLE

BILL OF LADING INSTRUCTIONS AS GIVEN BY SHIPPER OR HIS REPRESENTATIVE

DATE	BOOKING / PRO NO.	VESSEL AND VOYAGE NO.	CONTROL NO.
1-30-11	732071	~~SEATTLE~~ SAM TANAK	
PORT OF LOADING	**PORT OF DISCHARGE**	**DESTINATION**	**BEYOND CARRIER**
NE CAPE		SEATTLE	

SHIPPER	CONSIGNEE	COLLECT PREPAID OTHER Please Specify
BRISTOL ENVIRONMENTAL	CHEMICAL WASTE MANAGEMENT	☐ ☐ ☐
111 W 16TH AVE	17629 CEDAR SPRINGS LN	BILL TO: Please show complete address - include zip
STE 301	ARLINGTON OR 97812	SAME AS SHIPPER
ANCHORAGE AK 99501		
TELEPHONE (907) 277-1232	TELEPHONE 206 554 7384	

CONTAINER NO.	CONTAINER TYPE	SEAL NO.	LOAD DATE	SET TEMP °F	PROCESSOR / SUPPLIER

NO OF PIECES	KIND OF PACKAGE	HM	DESCRIPTION OF GOODS PROVIDED BY SHIPPER	NET WEIGHT	GROSS WEIGHT
1	20' OT SLC		ASBESTOS MATERIAL		20,000
2	20' OT SLC		LEAD PAINT WOOD DEBRIS		40,000
3	20' OT SLC		METAL DEBRIS		60,000
1	20F SLC		ARSENIC CONTAMINATED SOIL		40,000
2	20F SLC		LEAD CONTAMINATED ASH SOIL		80,000
7	20F SLC		PCB HAZARDOUS SOIL		280,000
			TOTAL		520,000

In accepting this Bill of Lading the shipper agrees that the custody and carriage of the goods identified shall be subject to the terms and conditions on the reverse hereof and of Carrier's tariff or applicable contract of affreightment, which shall govern the relations, whatsoever they may be, between the carrier and the shipper, owner and/or consignee of the goods, in every contingency and whensoever occurring.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. If the shipment is of a hazardous nature and has been tendered in a container, it is declared that the packing of the container has been carried out in accordance with the provisions of 49 CFR 176.27 (c).

Shipper: Charles F. Curley Date: 9-30-11

Received $ _____ to apply to prepayment of the charges on the property described hereon.

Agent or Carrier representative: Northland Services, Inc.

Per: _____ (The signature here acknowledges only the amount prepaid.)

Received for Carrier in good order, count, and condition unless otherwise noted hereon.

Date: _____ Time: _____

Received By: _____

Quantity or Equipment size / type: _____

Container Number & Prefix: _____

Seal Number: _____

Temperature Received: _____

All terms and conditions available online at www.northlandservices.com/terms/NSI_Terms.htm

Shipper's attention is directed to Section 18 on the reverse side of this Bill of Lading. Where rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. THE AGREED OR DECLARED VALUE OF THE PROPERTY IS HEREBY STATED BY THE SHIPPER NOT TO BE IN EXCESS OF $_____ PER _____

Shipper: _____ Date: _____

Standard tariff provisions limit Carrier's liability for household goods to $0.60 per lb. per item. Shipper's signature hereon acknowledges this released valuation unless a different value is declared here and additional charges are paid per Tariff NOLS-100, Rule 985. THE RELEASED VALUE OF THE PROPERTY IS NOT TO EXCEED $_____ PER LB. PER ITEM

Shipper: _____ Date: _____

WT 416519

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	AKR000203687	2	(800) 424-9300	004376103 FLE

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643 — U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	12,160	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) OR306118 - Burner Ash with lead; ERG #171; Container # ASH01 CWMX16213 Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe On Behalf of Savoonga IRA Council — Signature: Tyler M. Ellingboe — Month: 09 Day: 23 Year: 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Don Klein — Signature: Don Klein — Month: 9 Day: 30 Year: 11

Transporter 2 Printed/Typed Name: TARAS Hicks — Signature: — Month: 11 Day: 28 Year: 11

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
Hill			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Janice Strand — Signature: Janice Strand — Month: 12 Day: 7 Year: 11

GENERATOR — INTL — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

BM

416519

or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

ORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number AKR000203687	22. Page 2 of 2	23. Manifest Tracking Number 004376103FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

GENERATOR

32. Special Handling Instructions and Additional Information: FOR TRANSPORTATION ONLY

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Sothmo — Signature: [signature] — Month/Day/Year: 11/30/11

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: A Timmerman — Signature: A Timmerman — Month/Day/Year: 12/2/11

DESIGNATED FACILITY

35. Discrepancy

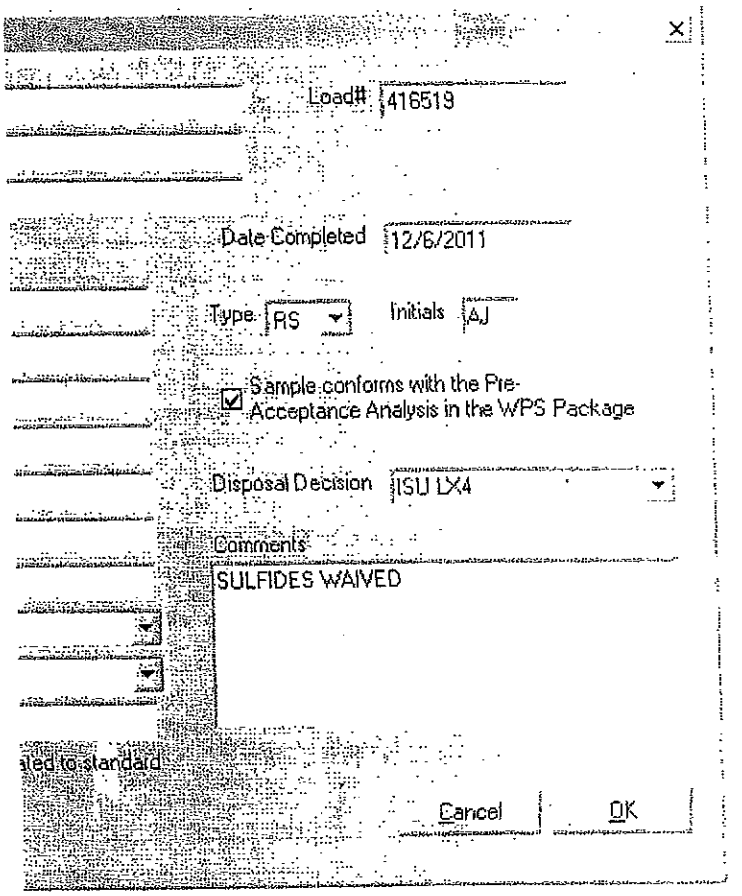
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

aste Management
the Northwest
edar Springs Lane
gton, Oregon 97812
41-454-2643
EPA I.D.# ORDO89452353

540

Waste Management and its companies. No representation
e to any other person or entity.

MANIFEST DOC. NO. _____



INBOUND
T/D: 07:55:36 2011-12-07
ID: 416518 TRK ID: 416519
72080 lb G

OUTBOUND
T/D: 08:13:15 2011-12-07
ID: 416518 TRK ID: 416519
72080 lb G
39040 lb PT
33040 lb N

NET 16.52 TONS

33040
-10460
22580
2
11290 P.
5.65T.

empty can wt =
5230 x 2
<10460 P>

GENERATOR Native Village Savoonga

Analyst Signature: _____

Compliance Review: Becky Summer

NT 416518

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	AKR000203687	2	(800) 424-9300	004376104 FLE

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	3A	16040	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) OR306118 - Burner Ash with lead; ERG #171; Container # ASH02 WMXU6213 Type: Toy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe on Behalf of Savoonga IRA Council — Signature: Tyler N. Ellingboe — Month: 09 Day: 23 Year: 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Dan Klein — Signature: Dan Klein — Month: 9 Day: 30 Year: 11

Transporter 2 Printed/Typed Name: TARAS Ickes — Signature: — Month: 11 Day: 28 Year: 11

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H111			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Janice Strand — Signature: — Month: 12 Day: 7 Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

BM

446518

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	AKR000203687		004376104FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: [illegible] Signature: [signature] Month 11 Day 30 Year 11

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: A Timmerman Signature: A Timmerman Month 12 Day 12 Year 11

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

aste Management and its companies. No representation
e to any other person or entity.

Waste Management
The Northwest
Cedar Springs Lane
gton, Oregon 97812
41-454-2643
EPA I.D.# ORDO89452353

540

MANIFEST DOC. NO. _____

INBOUND
T/D: 07:55:36 2011-12-07
ID: 416518 TRK ID: 416519
72080 lb G

OUTBOUND
T/D: 08:13:15 2011-12-07
ID: 416518 TRK ID: 416519
72080 lb G
39040 lb PT
33040 lb N

NET 16.52 TONS

33040 P
10460 P
22580 P
÷ 2
11290 P. each
5.65T.

empty can wt =
5230 × 2
<10460 P>

GENERATOR Native Village Savoonga

Load#: 416518

Date Completed: 12/6/2011

Type: RS Initials: AJ

Sample conforms with the Pre-Acceptance Analysis in the WPS Package

Disposal Decision: ISU LX4

Comments: SULFIDES WAIVED

ted to standard

Cancel OK

Analyst Signature: _____

Compliance Review: Becky Sumner

WT AK6513

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number AKR000203687	2. Page 1 of 2	3. Emergency Response Phone (800) 424-9300	4. Manifest Tracking Number 004376105 FLE

GENERATOR

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643 — U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	18940	P	D008		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) OR306118 - Burner Ash with lead; ERG #171; Container # ASH03 WMXU 6253 Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe on Behalf of Savoonga IRA Council — Signature: Tyler M. Ellingboe — Month: 09 Day: 23 Year: 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Dan Klein — Signature: Dan Klein — Month: 9 Day: 30 Year: 11

Transporter 2 Printed/Typed Name: TARAS Kleks — Signature: — Month: 11 Day: 30 Year: 11

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H111			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Janice Strand — Signature: — Month: 12 Day: 7 Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED) DM

416513

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: AKR000203687

22. Page 2 of 2

23. Manifest Tracking Number: 004376105FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: S Jim — Signature: [signature] — Month 11 Day 30 Year 11

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: A Timmerman — Signature: A Timmerman — Month 12 Day 2 Year 11

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

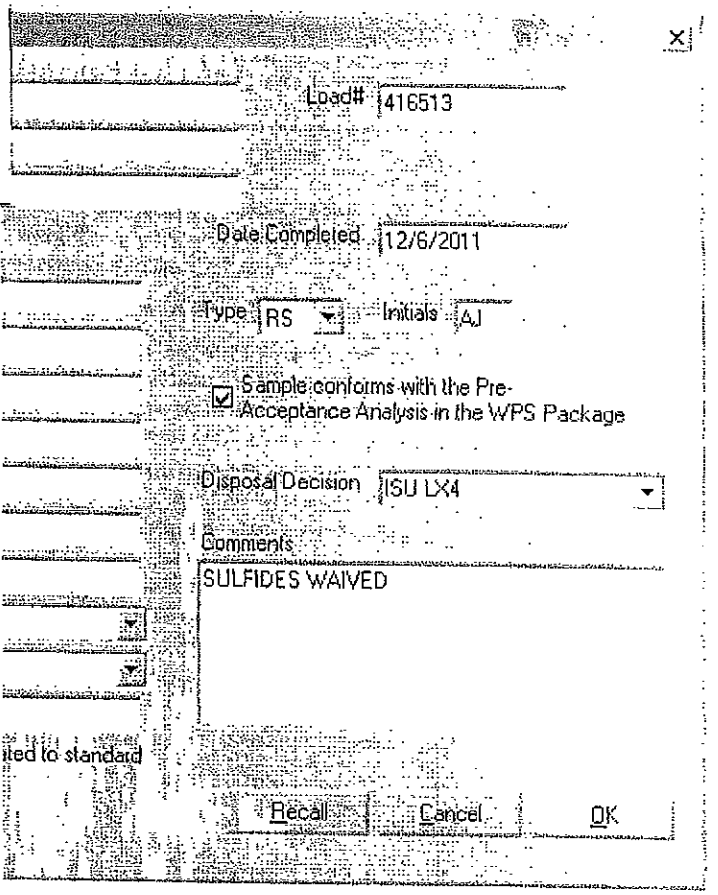
'aste Management and its companies. No representation
: to any other person or entity.

FEST DOC. NO.

INBOUND
T/D: 08:33:28 2011-12-07
ID: 416513 TRK ID: 416514
76140 lb G

OUTBOUND
T/D: 08:46:06 2011-12-07
ID: 416513 TRK ID: 416514
76140 lb G
39020 lb PT
37120 lb N

NET 18.56 TONS



x2
(4920P)

GENERATOR Native Village - Savoonga

Analyst Signature:

Compliance Review: Becky Summer

WT A160514

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	AKR000203687	2	(800) 424-9300	004376106 FLE

5. Generator's Name and Mailing Address
Native Village of Northeast Cape
c/o Savoonga IRA Council, P.O. Box 120
Savoonga, Alaska 99769
Generator's Phone: (907) 984-6414

Generator's Site Address (if different than mailing address)
Native Village of Northeast Cape
57 Miles ESE of Savoonga, Kitnagak Bay
Savoonga, Alaska 99769

6. Transporter 1 Company Name: Northland Services, Inc. — U.S. EPA ID Number: WAD981773005

7. Transporter 2 Company Name: Roadlink — U.S. EPA ID Number: WAH000016683

8. Designated Facility Name and Site Address: CWMNW, Inc.
17629 Cedar Springs Lane
Arlington, OR 97812-6512
Facility's Phone: (541) 454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, UN3077, waste environmentally hazardous substances, solid, N.O.S. (Lead), 9, PG III, RQ= 10 pounds	001	BA	16980	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1/ OR306118 - Burner Ash with lead; ERG #171; Container # ASH04 WMXU6253
Type: 7cy bag; please mail original manifest, scale ticket, and CD to: Bristol Environmental Remediation Services, LLC, Attn: Tyler Ellingboe, 111 W. 16th Avenue, Third Floor, Anchorage, AK 99501

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Tyler Ellingboe On Behalf Of Savoonga IRA Council — Signature: Tyler M Ellingboe — Month: 09 Day: 23 Year: 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: X Dan Klein — Signature: Dan Klein — Month: 9 Day: 30 Year: 11

Transporter 2 Printed/Typed Name: TARAS Klees — Signature: — Month: 11 Day: 30 Year: 11

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H11			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Jeanne Strand — Signature: Jeanne Strand — Month: 12 Day: 7 Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

BW

416514

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number	22. Page 2 of 2	23. Manifest Tracking Number
	AKR000203687		004376106FLE

24. Generator's Name: NATIVE VILLAGE OF NORTHEAST CAPE

25. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED001792910

26. Transporter 4 Company Name: Columbia Ridge Landfill — U.S. EPA ID Number: ORD987173457

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		

32. Special Handling Instructions and Additional Information

FOR TRANSPORTATION ONLY

GENERATOR

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Sutton — Signature: [signature] — Month/Day/Year: 11/30/14

34. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name: A Timmerman — Signature: A Timmerman — Month/Day/Year: 12/2/14

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

agement and its companies. No representation
other person or entity.

NO:

MANIFEST DOC. NO:

INBOUND
T/D: 08:33:28 2011-12-07
ID: 416513 TRK ID: 416514
76140 lb G

OUTBOUND
T/D: 08:46:06 2011-12-07
ID: 416513 TRK ID: 416514
76140 lb G
39020 lb PT
37120 lb N

NET 18.56 TONS

x2
(4920 P)

GENERATOR Native Village of Savoonga

Load# 416514

Date Completed 12/6/2011

Type RS Initials AJ

Sample conforms with the Pre-Acceptance Analysis in the WPS Package

Disposal Decision ISU LX4

Comments
SULFIDES WAIVED

ted to standard

Cancel OK

Analyst Signature:

Compliance Review: Becky Summer

WASTE TRACKING
SUMMARY SPREADSHEET

Bristol
ENVIRONMENTAL
REMEDIATION SERVICES, LLC

2011 Waste Tracking Summary Spreadsheet

Waste Name	Generation Start Date	RCRA HAZ or NON-HAZ Waste?	Waste Package ID Code	Waste Package Quantity (cy, gal, etc.)	Waste Package Gross Weight (lb)	Waste Package Tare Weight (lb)	Waste Package Net Weight (lb)	Waste Profile No.	Manifest No.	Bill of Lading No.	Consolidated Container Type or 20' Flatbed No.	Consolidated Container ID	TSDF Destination	Treatment Category	Date Manifest Signed by TSDF	Receipt of Return Manifest from TSDF	Receipt of Certificate of Disposal	Pounds Disposed
Asbestos Debris	8/2/2011	NON-HAZ	ACM1	pounds	380	44	336	109191OR	ACM01	013	20' open-top Conex®	WMXU 6310	Columbia Ridge Landfill & Recycling - Arlington, OR	Disposal in Subtitle D Landfill	11/29/2011	12/9/2011	12/9/2011	336
Asbestos Debris	8/2/2011	NON-HAZ	ACM2	pounds	380	44	336	109191OR	ACM01	013	20' open-top Conex®	WMXU 6310	Columbia Ridge Landfill & Recycling - Arlington, OR	Disposal in Subtitle D Landfill	11/29/2011	12/9/2011	12/9/2011	336
Asbestos Debris	8/2/2011	NON-HAZ	ACM3	pounds	380	44	336	109191OR	ACM01	013	20' open-top Conex®	WMXU 6310	Columbia Ridge Landfill & Recycling - Arlington, OR	Disposal in Subtitle D Landfill	11/29/2011	12/9/2011	12/9/2011	336
Asbestos Debris	8/2/2011	NON-HAZ	ACM4	pounds	380	44	336	109191OR	ACM01	013	20' open-top Conex®	WMXU 6310	Columbia Ridge Landfill & Recycling - Arlington, OR	Disposal in Subtitle D Landfill	11/29/2011	12/9/2011	12/9/2011	336
Asbestos Debris	8/2/2011	NON-HAZ	ACM5	pounds	380	44	336	109191OR	ACM01	013	20' open-top Conex®	WMXU 6310	Columbia Ridge Landfill & Recycling - Arlington, OR	Disposal in Subtitle D Landfill	11/29/2011	12/9/2011	12/9/2011	336
Painted Wood Debris	8/16/2011	HAZ	WMXU 6079	pounds	14,700	9,780	4,920	OR306102	004376101 FLE	008	20' open-top Conex®	N/A	Chemical Waste Management of the Northwest, inc.	Macroencapsulation in Subtitle C Landfill	11/28/2011	12/9/2011	12/12/2011	9,360
Painted Wood Debris	8/22/2011	HAZ	WMXU 6023	pounds	11,460	4,888	6,572	OR306102	004376102 FLE	009	20' open-top Conex®	N/A	Chemical Waste Management of the Northwest, inc.	Macroencapsulation in Subtitle C Landfill	11/30/2011	12/12/2011	12/12/2011	6,140
Burner Ash	9/15/2011	HAZ	ASH01	pounds	N/A	N/A	12,160	OR306118	004376103 FLE	408052	JORU 020039	N/A	Chemical Waste Management of the Northwest, inc.	Stabilization in Subtitle C Landfill	12/7/2011	12/20/2011		11,290
Burner Ash	9/15/2011	HAZ	ASH02	pounds	N/A	N/A	16,040	OR306118	004376104 FLE	408052	JORU 020039	N/A	Chemical Waste Management of the Northwest, inc.	Stabilization in Subtitle C Landfill	12/7/2011	12/20/2011		11,290
Burner Ash	9/15/2011	HAZ	ASH03	pounds	N/A	N/A	18,940	OR306118	004376105 FLE	408052	JORE 567379	N/A	Chemical Waste Management of the Northwest, inc.	Stabilization in Subtitle C Landfill	12/7/2011	12/20/2011		13,640
Burner Ash	9/15/2011	HAZ	ASH04	pounds	N/A	N/A	16,980	OR306118	004376106 FLE	408052	JORE 567379	N/A	Chemical Waste Management of the Northwest, inc.	Stabilization in Subtitle C Landfill	12/7/2011	12/20/2011		13,640