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Date: March 1, 2012
Refer To: ENV-RCRA-12-0055
LAUR: 12-10341

Ms. Paulette Johnsey, Chief
U.S. Environmental Protection Agency, Region 6
Compliance Assurance and Enforcement Division
Water Enforcement Branch (6EN)
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Mr. Richard Powell
Surface Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, N2050
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P.O. Box 5469
Santa Fe, NM 87502-5469

Dear Ms. Johnsey and Mr. Powell:

**SUBJECT: NPDES PERMIT NO. NM0030759 - SUBMITTAL OF 2011 STORM WATER
INDIVIDUAL PERMIT ANNUAL REPORT, DATED MARCH 1, 2012**

This 2011 Storm Water Individual Permit Annual Report is being submitted in accordance with the requirements of NPDES Permit No. NM0030759 (the Permit) for the Los Alamos National Laboratory, issued to Los Alamos National Security, LLC, and the U.S. Department of Energy, effective November 1, 2010. As specified in Part I, Section H.2, Annual Reports, the Permittees must submit an annual status report no later than March 1 of each year.

The 2011 Annual Report presents activities and milestones accomplished by the Permittees during the period January 1 through December 31, 2011. The content of the Annual Report addresses the requirements in Section H.2, including:

- Site-specific compliance status;
- highlights of any change of compliance status during the reporting period;
- description of control measures installed;
- monitoring results available during the reporting period;
- identification of pollutants of concern which exceed applicable Target Action Levels;
- identification of Sites that are required to undergo Corrective Action per Part I, Section E;

March 1, 2012

- summary of inspections performed; and
- summary of planned updates to the Site Discharge Pollution Prevention Plan.

This 2011 Annual Report does not contain any requests for EPA's approval. The report has been signed, certified, and dated in accordance with Part III, Section D.11 of the Permit and 40 CFR 122.22(b).

Please contact Terrill Lemke at (505) 665-2397 of the Water Quality and RCRA Group (ENV-RCRA) if you have questions.

Sincerely,

Sincerely,



Anthony R. Grieggs
Group Leader
Water Quality & RCRA Group
Environmental Protection Division
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Gene E. Turner
Environmental Permitting Manager
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STORM WATER INDIVIDUAL PERMIT ANNUAL REPORT

NPDES Permit No. NM0030759

**REPORTING PERIOD:
January 1 - December 31, 2011**

SUBMITTAL DATE: March 1, 2012

LA-UR-12-10341

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List of Acronyms & Abbreviations

AOC	Area Of Concern
ATAL	Average Target Action Level
BCM	baseline control measure
BMP	best management practice
CFR	Code of Federal Regulations
DOE	United States Department of Energy
EPA	United States Environmental Protection Agency
FFCA	Federal Facility Compliance Agreement
HE	high explosive [compound]
IP	Individual Permit, the Permit
LANL, the Laboratory	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
LASO	[National Nuclear Security Administration] Los Alamos Site Office
mg/L	milligrams per liter
µg/L	micrograms per liter
MQL	Minimum Quantification Level
MTAL	Maximum Target Action Level
NMED	New Mexico Environment Department
NNSA	National Nuclear Security Administration
NPDES	National Pollutant Discharge Elimination System
PCB	polychlorinated biphenyl [compound]
pCi/L	picoCurie per liter
PPT	Pollution Prevention Team
RCRA	Resource Conservation and Recovery Act
SDPPP	Site Discharge Pollution Prevention Plan
SMA	Site Monitoring Area
SWMU	Solid Waste Management Unit
TA	Technical Area
TAL	Target Action Level

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Certification

LOS ALAMOS NATIONAL LABORATORY

NPDES Permit No. NM0030759

ANNUAL REPORT

REPORTING PERIOD: January 1, 2011 – December 31, 2011

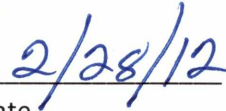
CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Anthony R. Grieggs, Group Leader
Water Quality & RCRA Group
Environment, Safety, & Health Directorate
Los Alamos National Laboratory

Date



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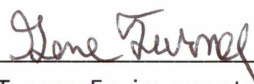
Certification

LOS ALAMOS NATIONAL LABORATORY
NPDES Permit No. NM0030759

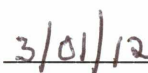
ANNUAL REPORT
REPORTING PERIOD: January 1, 2011 – December 31, 2011

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Gene Turner, Environmental Permitting Manager
Environmental Projects Office
Los Alamos Site Office
National Nuclear Security Administration



Date

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Executive Summary

Los Alamos National Security, LLC (LANS), under the direction of the National Nuclear Security Administration (NNSA), has prepared this Annual Report for the Storm Water Individual Permit pursuant to the requirements of National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 issued by the Environmental Protection Agency (EPA) Region 6 office. The Department of Energy (DOE) and LANS are jointly authorized under the Individual Permit to discharge storm water associated with specified solid waste management units (SWMUs) and areas of concern (AOCs) located at Los Alamos National Laboratory (LANL), collectively referred to as Sites. The Individual Permit incorporating the latest modifications became effective on November 1, 2010 (hereinafter referred to as the Individual Permit or Permit).

This Annual Report presents activities and milestones accomplished during the period January 1 through December 31, 2011. Highlights of work performed under the compliance requirements specified in the Permit during the 2011 annual reporting period include the following.

No incidents of noncompliance that potentially endangered health or the environment occurred during the 2011 annual reporting period.

- Baseline control measure installation was accomplished at 123 SMAs with 230 associated Sites before the Permit deadline of April 30, 2011, completing the Baseline Control Measure Installation phase of the Permit that began in 2010. Further details are provided in Section 4 of this report.
- Baseline control measures certification at 123 SMAs with 230 associated Sites was accomplished within 30 days of control measure completion - and before the Permit deadline of May 30, 2011 - completing the Baseline Control Measure Certification phase of the Permit that began in 2010. Certification documentation was submitted to the EPA Region 6 Office and the New Mexico Environment Department (NMED) as described in Section 4 of this report.
- Additional control measures intended to supplement the certified baseline control measures were installed at 49 Sites. These control measures are identified as “augmented” control measures and were installed after baseline control measure certification and prior to initiation of any Corrective Action.
- The initial Site Discharge Pollution Prevention Plan (SDPPP) was completed and submitted to EPA Region 6 and NMED by May 1, 2011 - within six months of the November 1, 2010 effective date of the Permit – as required by Part I, Section F of the Permit. A summary of SDPPP changes during 2011 is provided in Section 7 of this report.
- The Individual Permit Public Website was established on May 1, 2011 - within six months of the November 1, 2010 effective date of the Permit – per the requirements of Part I, Section I.7 (a) of

the Permit. Information on the Permit, including the SDPPP, Annual Report, inspection reports, Discharge Monitoring Reports (DMRs), and transmittal correspondence between the Permittees and EPA is continually updated on the IP Public Website.

- A total of 1,178 Permit-required inspections were conducted during 2011 including: 836 post-storm inspections; 250 annual erosion evaluations; 6 significant event inspections; 34 visual inspections for TAL exceedances; and 52 remediation construction activity inspections.
- Control measure and/or SMA maintenance was conducted on 422 separate instances based on inspection findings.
- Baseline confirmation monitoring was initiated at all 250 Site Monitoring Areas (SMAs). Baseline monitoring was completed at 41 SMAs with 67 associated Sites as of December 31, 2011.
- Based on Target Action Level (TAL) exceedances observed in baseline confirmation monitoring samples, 39 SMAs with 65 associated Sites are advanced to the Corrective Action phase as specified in Part I, Section E of the Permit.
- Based on no TAL exceedances observed in baseline confirmation monitoring samples, no further monitoring is required for two (2) SMAs with two (2) associated Sites. LANL will continue to inspect the Sites in accordance with Part I, Section G of the Permit and to maintain all control measures in effective operating condition as required by Part I, Section B.2.

On Sunday, June 26, 2011 the Las Conchas wildfire originated in the Jemez Mountains southwest of LANL and during the course of the fire burned in close proximity to the south and west borders of LANL. LANL was forced to cease operations for approximately 10 days due to the proximity of the fire. With the exception of a single one-acre spot fire, there were no direct impacts to LANL property and no permitted Sites or SMAs were impacted by the fire. No scheduled Permit-required activities were impacted by the facility closure. Following the fire, a single Site was impacted on two separate occasions by post-fire runoff flowing from adjacent U.S. Forest Service property onto LANL, requiring maintenance of the control measures at the Site. This Annual Report does not provide additional information about the Las Conchas fire.

The content requirements for the Annual Report are listed in Part I, Section H.2 (a)-(k) of the Permit; additional requirements are found in Sections F.3, I.1, and I.5 in Part I of the Permit. This Annual Report is organized to address all the Permit-required contents as shown in the crosswalk provided in Table ES-1.

**Table ES-1
 Individual Permit Annual Report Requirements**

Part I Requirement		Annual Report Section
Section	Description	
H.2 (a)	For each SMA (or Site), a summary of the Site-specific compliance status during the reporting period.	Section 2.4.1 Site-Specific Compliance Status Appendix B. Site-Specific Compliance Status
H.2 (b)	SMA and associated Outfall and Site(s) numbers/identifications.	Section 2.2 Permitted Sites Appendix A. Permitted Features, Site Monitoring Areas, and Sites
H.2 (c)	Monitoring results available during the reporting period.	Section 3. Analytical Monitoring Results Appendix C. Analytical Monitoring Results
H.2 (d)	Identification of pollutants which exceed applicable MTAL or ATAL.	Section 3.2.3 Baseline TAL Exceedances Section 3.3.3 Corrective Action TAL Exceedances
H.2 (e)	Description of baseline control measures installed, including the completion date or targeted completion date.	Section 4. Baseline Control Measures Activities Appendix D. Baseline Control Measures
H.2 (f)	Description of corrective actions required under Section E of this Permit to be taken or having been taken, including completion date or targeted completion date, and Progress update.	Section 5. Corrective Actions Activities Appendix E. Corrective Actions
H.2 (g)	Identification of Sites which meet No Exposure status.	Section 2.6 Sites Recommended for No Exposure Status
H.2 (h)	Identification of Sites which meet "corrective action complete without controls/corrective action complete with controls" under RCRA or which have been issued a Certificate of Completion under the NMED Consent Order.	Section 2.5 Sites with NMED Consent Order Certificates of Completion
H.2 (i)	Highlights of any change of compliance status from the Annual Report.	Section 2.4.2 Compliance Status Changes
H.2 (j)	Lists of requests for EPA's approval, including any requests for change of monitoring location or Site deletion and any requests to place a Site or Sites into Section E.3 Alternative Compliance.	Section 1. Requests for EPA Approval
H.2 (k)	A summary of inspections performed in accordance with Section G.1 and 2 above, as well as for any visual inspections performed under Section E.1.	Section 6. Summary of Inspections Appendix F. Inspections

Table ES-1, cont'd
Individual Permit Annual Report Requirements

Part I Requirement		Annual Report Section
Section	Description	
E.5 (c)	... Any actions taken under this paragraph must be summarized in the Annual SDPPP update and in the Annual Report.	Section 5. Corrective Actions Activities Appendix E. Corrective Actions
F.3	The Permittees must keep documents and records with the SDPPP as necessary to reflect (a)-(e) below. If any of the circumstances described [below] occur at any Site, the Permittees must address these changes or deficiencies to ensure compliance with Permit conditions and applicable monitoring requirements. All changes must be incorporated into the SDPPP and a summary of these changes must be included in the Annual Report.	Section 7. Summary of SDPPP Changes
F.3 (a)	Construction or a change in design, operation, or maintenance at the facility having a significant impact on the discharge, or potential for discharge, of pollutants from the facility;	Section 7. Summary of SDPPP Changes
F.3 (b)	Findings of deficiencies in control measures during inspection or based on analytical monitoring results;	Section 7. Summary of SDPPP Changes
F.3 (c)	Any change of monitoring requirement or compliance status;	Section 7. Summary of SDPPP Changes
F.3 (d)	Any change of SMA location; and	Section 7. Summary of SDPPP Changes
F.3 (e)	Summary of changes from the last year's SDPPP.	Section 7. Summary of SDPPP Changes
I.1	... Steps taken to minimize discharges of contaminated runoff during remediation activity shall be included in the SDPPP update...	Section 7. Summary of SDPPP Changes
I.5	This Permit may be reopened and modified in accordance 40 CFR §122.62. Any changes to monitoring and/or control measure requirements made to the Permit in accordance with such a permit modification shall be addressed in the Annual Report and in the annual SDPPP update.	Section 1.2 Approved Permit Modifications

Section 1. Requests for EPA Approval

1.1 Permittee Requests

Part I, Section H.2 (j) of the Permit requires that the Annual Report identify any lists of requests for Environmental Protection Agency (EPA) Region 6 approval, including any requests for changes of monitoring location or Site deletion and any requests to place a Site into “Alternative Compliance” (Part I, Section E.3 of the Permit).

No requests for EPA approval were submitted by the Permittees during the 2011 annual reporting period.

1.2 Approved Permit Modifications

Part I, Section I.5 of the Permit requires that the Annual Report identify any approved permit modifications during the 2011 annual reporting period. No requests for Permit modification have been submitted by the Permittees during the period January 1 - December 31, 2011.

Section 2. Compliance Status

2.1 Overview

The Permit, incorporating the latest modifications, was issued to LANS and the U.S. Department of Energy (DOE), hereinafter referred to as the Permittees, by the U.S. EPA Region 6 office with an effective date of November 1, 2010 (EPA 2010).

Storm water discharges from
405 Sites located at
250 Site Monitoring Areas
are permitted under the
Individual Permit

The Permit contains non-numeric technology-based effluent limitations, coupled with a comprehensive, coordinated monitoring program, to minimize pollutants in Permittees' storm water discharges associated with historical industrial activities from specified Solid Waste management Units (SWMUs) and Areas of Concern (AOCs). Permittees are required to implement site-specific control measures (including best management practices [BMPs]) to address the non-numeric technology-based effluent limits as necessary to minimize pollutants in their storm water discharges.

- As used in the Permit, "minimize" means to reduce and/or eliminate discharges of pollutants in storm water to the extent achievable using site-specific control measures (including best management practices) that reflect best industry practice considering their technological availability, economic achievability, and practicability.

2.2 Permitted Sites

Part I, Section H.2 (b) of the Permit requires that the Annual Report include the Sample Monitoring Area (SMA) and associated Outfall (Permitted Feature) and Site(s) numbers/identifications.

- Appendix A of the Permit lists the assignments of Sites to SMAs; Table A-1 of the Permit provides the SMA monitoring location coordinates.
- Appendix D of the Permit assigns each SMA to a Permitted Feature (i.e., an outfall number) for the purposes of tracking and reporting.

The information provided Appendices A and D of the Permit is summarized in Table A-1 of Appendix A to this Annual Report, which identifies the Permitted Features and associated SMAs and Sites permitted to discharge storm water as of December 31, 2011. There were no changes to Table A-1 during 2011. For this Annual Report, Table A-1 is organized from north to south according to the seven major Pajarito Plateau watersheds where the Permitted Features/SMAs are located. Table 2-1 summarizes the numbers of Permitted Features, SMAs, and Sites associated with each of the major watersheds. As of December 31, 2011, 405 Sites assigned to 250 Permitted Features/SMAs were permitted under National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759.

Table 2-1. Permitted Features, Site Monitoring Areas, and Sites Summarized by Watershed ¹

Watershed	Number of Permitted Features / SMAs	Number of Sites
Los Alamos / Pueblo	64	121
Sandia	19	23
Mortandad	45	106
Pajarito	51	63
Water / Canon de Valle	50	92
Ancho	9	15
Chaquehui	12	29
Total:	250	405

1. Current as of December 31, 2011.

2.3 Permit Schedule Requirements

The Permit requires that baseline control measures to address the non-numeric technology-based effluent limits be installed within six (6) months of the effective date of the Permit, Nov. 1, 2010. Following installation of the control measures, the Permittees must perform initial confirmation monitoring against the pollutant Target Action Levels (TALs) to determine the effectiveness of the measures. If confirmation monitoring shows TALs are not being met at a particular Site, the Permittees must take corrective action in accordance with the timelines specified in Part I, Section E.4 of the Permit through installation of measures reasonably expected to:

- meet applicable target action levels at that Site;
- achieve total retention of storm water discharges from the Site;
- totally eliminate exposure of pollutants to storm water at the Site; or
- through demonstration that the Site has achieved RCRA “no further action” status or a “Certificate of Completion” under the New Mexico Environment Department’s (NMED) Consent Order.

In recognition of the number of Sites and the unique characteristics of each Site, Part I, Section E.4 of the Permit categorizes the Sites into “High Priority Sites” and “Moderate Priority Sites”, and establishes deadlines for corrective action based on this prioritization.

- Permittees are required to certify completion of corrective action at all “High Priority Sites” within three (3) years of the effective date of the Permit (October 31, 2013).
- Permittees are required to certify completion of corrective action at “Moderate Priority Sites” within five (5) years of the effective date of the Permit (October 31, 2015).

The three-year and five-year deadlines may be changed under Sections E.3, Alternative Compliance, or E.5, Additional Sampling Requirements in Part I of the Permit.

Table 2-2 summarizes the significant milestones for compliance phases identified under the Individual Permit. In this Annual Report, the compliance status of a specific Permitted Feature/SMA or Site will be described according to the Permit compliance phases and milestones identified in Table 2-2.

2.4 Compliance Status

2.4.1 Site-Specific Compliance Status

Sections H.2 (a), H.2 (i), and F.3 (c) in Part I of the Permit require that the Annual Report address Site-specific compliance status and changes to compliance status for each SMA or Site. During the 2011 annual reporting period, permitted Sites moved through three sequential compliance phases:

- Baseline Control Measures (BCM) Installation
- Baseline Control Measures Certification
- Baseline Confirmation Monitoring

As of December 31, 2011, 39 SMAs with 65 associated Sites have entered the Corrective Action phase because the sample results for baseline confirmation monitoring were greater than TALs:

- Corrective Action Initiation

Thirty-seven (37) of the SMAs entering the Corrective Action phase will have enhanced controls installed as the corrective action. The two (2) remaining SMAs will employ an NMED Consent Order “Certificate of Completion” as the corrective action. Section 5 of this report further discusses corrective action activities. As of December 31, 2011, enhanced control measure installation had begun at two (2) SMAs; however, installation had not been completed at any SMAs/Sites. Additional Certificates of Completion may be received from NMED during 2012 and, therefore, additional Sites could employ the Consent Order Certificate of Completion as the corrective action.

The Permit compliance status for the 2011 annual reporting period is summarized in Table 2-3. The Site-specific compliance status is provided in Appendix B, Table B-1 of this report.

Table 2-2. Milestones for Significant Compliance Phases for the Individual Permit

Compliance Phase	Permit Section(s)	Description	Milestone
Baseline Control Measures Installation	Part I, Section B.1 Appendix E	The Permittees must install baseline control measures at each Site within 6 months of the Nov. 1, 2010, effective date of the Permit. Baseline control measures have already been installed and implemented prior to the effective date of the Permit at 102 Sites assigned to 63 SMAs. Appendix E, Table E-1, specifies the control measures installed or to be installed at each Site. Table E-2 lists 63 SMAs where baseline control measures have been installed prior to Nov. 1, 2010.	April 30, 2011
Baseline Control Measures Certification	Part I, Section B.1 Appendix E	The Permittees must certify the baseline control measures specified in Appendix E have been installed for all Sites at each SMA. Certification documentation must include a description and photograph of each control measure. The Permittees must certify the baseline control measures completed at 63 SMAs before Nov. 1, 2010 (listed in Table E-2) within 30 days of effective date of Permit. The Permittees must certify baseline control measures for Sites at remaining 187 SMAs listed in Table E-1 within 30 days of completion.	Dec. 1, 2010 May 30, 2011
Baseline Confirmation Monitoring	Part I, Section D.1 Part I, Section D.1 (a) Part I, Section D.1 (b)	The Permittees shall perform confirmation monitoring following installation of control measures. Initial monitoring requirements following installation and implementation of baseline control measures vary on a site-by-site basis. For Sites at which baseline control measures were installed and implemented prior to Nov. 1, 2010, the Permittees shall collect two or more confirmation samples within one (1) year after the effective date of the Permit at associated SMAs. For Sites at which baseline control measures were installed and implemented within six months of the effective date of the Permit, the Permittees shall collect two or more confirmation samples within eighteen (18) months after the effective date of the Permit at associated SMAs.	October 31, 2011 April 30, 2012
Corrective Action	Part I, Section E	The Permittees shall initiate corrective action as soon as practicable if, following installation of baseline control measures, initial confirmation monitoring (see Baseline Control Measure Confirmation Monitoring) shows target action levels are not being met at a particular Site.	As applicable

Table 2-2, cont'd. Milestones for Significant Compliance Phases for the Individual Permit

Compliance Phase	Permit Section(s)	Description	Milestone
Corrective Action Control Measures Installation	Part I, Section E	If confirmation monitoring shows target action levels are not being met at a particular Site, the Permittees must take corrective action through installation of measures reasonably expected to: (i) meet applicable target action levels at that Site; (ii) achieve total retention of storm water discharges from the Site, (iii) totally eliminate exposure of pollutants to storm water at the Site; or through (iv) a demonstration that the Site has achieved RCRA "corrective action complete without controls/corrective action complete with controls" status or a Certificate of Completion under NMED's Consent Order.	See Section 5 of the Annual Report
Certification of Corrective Action Control Measures Installation	Part I, Section E.1 (c)	The Permittees shall certify completion of installation of all such control measures within 30 days of completion of all such measures at the Site.	See Section 5 of the Annual Report
Corrective Action Confirmation Monitoring	Part I, Section E.1 (a)	If the selected corrective action entails the design and installation of enhanced control measures, the Permittees shall collect at least two confirmation samples following installation of any enhanced control. If either validated confirmation sample result exceeds applicable target action levels, the Permittees shall initiate further measures to achieve completion of corrective action.	TBD
	Part I, Section E.1 (b)	If the Permittees decide to achieve corrective action through installation of measures to totally eliminate exposure of pollutants to storm water at a Site, no further confirmation monitoring is required. Thereafter, the Permittees shall collect one sample and make the analytical results available to the public.	TBD
	Part I, Section E.1 (b)	If the Permittees decide to achieve corrective action through installation of total retention measures or through demonstration that the Site has achieved a Certificate of Completion under NMED's Consent Order, no further confirmation monitoring is required.	TBD
	Part I, Section E.1 (c)	Where applicable, the Permittees shall provide sampling results within 30 days of receipt of analytical results from the first measureable storm event after completion of such measures.	TBD

Table 2-2, cont'd. Milestones for Significant Compliance Phases for the Individual Permit

Compliance Phase	Permit Section(s)	Description	Milestone
Corrective Action Confirmation Monitoring, cont'd	Part I, Section E.1 (d)	For "High Priority Sites" (see Part I, Section E.4 (a)) if no confirmation sample could be collected due to lack of a measurable storm event prior to the second year of the Permit (October 31, 2012), then the compliance deadlines under Part I, Section E.4 shall be extended for a one (1) year period following the first successful confirmation sampling event.	TBD
Certification of Completion of Corrective Action	Part I, Section E.2	The Permittees must certify completion of corrective action within the deadlines established under Part I, Section E.4.	October 31, 2013
	Part I, Section E.4 (a)	The Permittees must certify completion of corrective action under Part I, Section E.2 for 63 "High Priority Sites" within three (3) years of the effective date of the Permit (or such other time period as may be specified pursuant to Part I, Section E.3, Alternative Compliance, E.4 (c), force majeure, or E.5, Additional Sampling Requirements).	
Certification of Completion of Corrective Action	Part I, Section E.4 (a)	The Permittees must certify completion of corrective action under Part I, Section E.2 for remaining 342 "Moderate Priority Sites" listed in Appendix A within five (5) years of the effective date of the Permit (or such other time period as may be specified pursuant to Part I, Section E.3, Alternative Compliance, E.4 (c), force majeure, or E.5, Additional Sampling Requirements).	October 31, 2015
	Part I, Section E.3	The Permittees may seek to place a site into Alternative Compliance where the Permittees believe they have installed measures to minimize pollutants in their storm water discharges but are unable to certify Completion of Corrective Action within the deadlines established under Part I, Section E., Completion of Corrective Action will be accomplished under Alternative Compliance on a case-by-case basis, and as necessary, pursuant to an individually tailored compliance schedule determined by EPA.	TBD
Deletion of Site	Part I, Section I.2	<p>The Permittees may submit a written request to remove a Site from the Permit if the Permittees can demonstrate that the Site meets on of the following conditions:</p> <ul style="list-style-type: none"> a) The Site was never used for management of hazardous waste; or b) The Site has received a Certificate of Completion under NMED's Consent Order and confirmation samples of runoff have demonstrated concentrations no greater than applicable target action levels. <p>Once a Site is removed from the Permit, a discharge of contaminated runoff is no longer authorized by the Permit.</p>	TBD

Table 2-3. Summary of Individual Permit Compliance Status as of December 31, 2011

Compliance Phase	Number of SMAs	Number of Sites ¹	Milestone	Status as of December 31, 2011
Baseline Control Measures Installation	-	-	April 30, 2011	Baseline control measure installation and implementation was completed on schedule at all 250 SMAs/405 Sites as of April 30, 2011.
Baseline Control Measures Certification	-	-	May 30, 2011	Baseline control measure certification was completed on schedule at all 250 SMAs/405 Sites as of May 30, 2011.
Baseline Confirmation Monitoring	19	37	October 31, 2011	Baseline control measures were completed before the effective date of the Permit at 63 SMAs. Initial baseline confirmation monitoring was completed for 19 of the 63 SMAs by October 31, 2011. Extended baseline confirmation monitoring will continue during 2012 at the remaining 44 SMAs.
	22	33	April 30, 2012	Baseline control measures were completed and certified after the effective date of the Permit at 337 Sites located at 187 SMAs. Baseline confirmation monitoring was completed for 20 of the 187 SMAs by December 30, 2011. An additional 2 SMAs were advance to the Corrective Action phase based on collection of only one sample. Baseline monitoring will continue at 31 SMAs with one sample collected until April 30, 2012.
	209	379	Until one sample collected	Baseline confirmation monitoring will continue during 2012 at 178 SMAs until one sample is collected.
Identification of Sites Requiring Corrective Action	39	65	December 31, 2011	See Section 5 of the Annual Report for details on the criteria used to determine which SMAs require corrective action.
Corrective Action - Control Measures Installation	37	63	Third quarter CY12	Installation of enhanced controls is planned for 2012 at 37 of the 39 SMAs requiring Corrective Action.
Corrective Action - NMED Certificate of Completion	2	2	Third quarter CY12	For 2 of the 39 SMAs requiring Corrective Action, the NMED Consent Order Certificate of Completion will be used to meet the Corrective Action requirement.
Certification of Corrective Action Control Measures Installation	-	-	TBD	Certification of installation of control measures to be completed within 30 days of completion of all such control measures at an SMA.

Table 2-3, cont'd. Summary of Individual Permit Compliance Status as of December 31, 2011

Compliance Phase	Number of SMAs	Number of Sites ¹	Milestone	Status as of December 31, 2011
Corrective Action Confirmation Monitoring	-	-	TBD	Confirmation monitoring will begin after certification of installation of corrective action control measures.
Certification of Completion of Corrective Action	-	-	October 13, 2013	Corrective Action has not been completed at any High Priority Sites.
	-	-	October 13, 2015	Corrective Action has not been completed at any Moderate Priority Sites.

1. The number of Sites may add up to more than 405 (the number of permitted Sites) because some Sites are assigned to more than one SMA.

2.4.2 Compliance Status Changes

Part I, Section H.2 (i) of the Permit requires that the Annual Report highlight any change of compliance status during the annual reporting period. Highlights of changes of compliance status during the 2011 annual reporting period include the following.

SMAs and associated Sites moved through four Permit phases during 2011

- ~ *Baseline Control Measure Installation*
- ~ *Baseline Control Measure Certification*
- ~ *Baseline Confirmation Monitoring*
- ~ *Corrective Action Initiation*

- Baseline control measure installation was accomplished at 123 SMAs (230 associated Sites) before the Permit deadline of April 30, 2011, completing the Baseline Control Measure Installation phase of the Permit that began in 2010. Further details are provided in Section 4 of this report.
- Certification of baseline control measures installation at 123 SMAs (230 associated Sites) was accomplished within 30 days of completion of control measure installation - and before the Permit deadline of May 30, 2011 - completing the Baseline Control Measure Certification phase of the Permit that began in 2010. Certification documentation was submitted to the EPA Region 6 Office and NMED as described in Section 4 of this report.
- Baseline Confirmation Monitoring was initiated during 2011 at all 250 SMAs, as summarized in Section 3 of this report.

- ~ Baseline Confirmation Monitoring was completed at 19 of the 63 SMAs with a baseline monitoring target date of October 31, 2011 (37 associated Sites) by collection of one (1) or two (2) samples.
 - ~ Baseline Confirmation Monitoring was completed at 20 of the 187 SMAs with a baseline monitoring target date of April 30, 2012 (30 associated Sites) by collection of two (2) samples before December 31, 2011.
 - ~ Baseline Confirmation Monitoring was discontinued at on (2) of the 187 SMAs with a baseline monitoring target date of April 30, 2012 based on one (1) sample collected with TAL exceedances observed. The two SMAs have been preemptively advanced to the Corrective Action phase of the Permit. Further explanation is presented in Section 3 of this report.
- For two (2) of the 39 SMAs that completed Baseline Confirmation Monitoring, no TAL exceedances were observed. No further monitoring and no Corrective Action activities are required for these two SMAs (2 associated Sites).
 - As a result of TAL exceedances observed for baseline confirmation monitoring samples, 39 SMAs (65 associated Sites) were advanced to the Corrective Action phase of the Permit as of December 31, 2011. Further explanation is found in Section 5 of this report.
 - Enhanced control measures are planned for 37 of the 39 SMAs entering Corrective Action, unless any of the 37 Sites receives a Consent Order Certificate of Completion from NMED during 2012.
 - As of December 31, 2011, Corrective Action control measure installation had begun at two (2) SMAs; however, installation had not been completed at any SMAs/Sites.
 - For the remaining two (2) SMAs (two associated Sites), the NMED Consent Order Certificate of Completion will be employed as the Corrective Action.
 - Baseline Confirmation Monitoring will continue at 178 SMAs during 2012.

2.5 Sites with NMED Consent Order Certificates of Completion

Part I, Section H.2 (h) of the Permit requires that the Annual Report identify Sites that have been issued a “Certificate of Completion” under the NMED Consent Order (NMED 2005). As of December 31, 2011, the twenty-one (21) Sites listed in Table 2-5 had received Certificates of Completion, including six (6) Sites that were approved for Certificates of Completion during 2011.

2.6 Sites Recommended for No Exposure Status

Part I, Section H.2 (g) of the Permit requires that the Annual Report identify Sites which meet No Exposure status. No Sites were recommended for No Exposure status during the 2011 annual reporting period.

**Table 2-4. Cumulative List of Individual Permit Sites with a
 “Certificate of Completion” under the NMED Consent Order**

Site No.	Permitted Feature / SMA	Corrective Action Complete Status	Date Issued	Reference
00-018(b)	P004 / P-SMA-0.3	Complete without Controls	Jan. 14, 2011	NMED 2011a
01-001(b)	L007 / LA-SMA-2.3	Complete with Controls	Sept. 10, 2010	NMED 2010c
01-001(c)	L011 / LA-SMA-4.2	Complete with Controls	Sept. 10, 2010	NMED 2010c
01-001(e)	L008 / LA-SMA-3.1	Complete with Controls	Sept. 10, 2010	NMED 2010c
01-003(e)	L012A / LA-SMA-5.02	Complete with Controls	Sept. 10, 2010	NMED 2010c
01-006(d)	L011 / LA-SMA-4.2	Complete with Controls	Sept. 10, 2010	NMED 2010c
03-056(c)	S003/S-SMA-2	Complete with Controls	Feb. 18, 2011	NMED 2011c
21-013(b)	L019A/LA-SMA-5.92	Complete with Controls	June 3, 2011	NMED 2011b
21-013(g)	L019A/LA-SMA-5.92	Complete with Controls	June 3, 2011	NMED 2011b
21-018(a)	L019A/LA-SMA-5.92	Complete with Controls	June 3, 2011	NMED 2011b
21-023(c)	L019/LA-SMA-5.91	Complete with Controls	June 3, 2011	NMED 2011b
16-030(c)	V003 / CDV-SMA-1.4	Complete without Controls	Jan. 23, 2008	NMED 2008
39-001(b)	A005 / A-SMA-2.8	Complete without Controls	April 6, 2010	NMED 2010a
39-002(c)	A004 / A-SMA-2.7	Complete without Controls	April 6, 2010	NMED 2010a
43-001(b2)	L004 / LA-SMA-1.1	Complete with Controls	Sept. 10, 2010	NMED 2010c
48-007(a)	M006 / M-SMA-4	Complete with Controls	Sept. 7, 2010	NMED 2010b
48-007(d)	M006 / M-SMA-4	Complete with Controls	Sept. 7, 2010	NMED 2010b
48-010	M006 / M-SMA-4	Complete with Controls	Sept. 7, 2010	NMED 2010b
53-002(a)	L030 / LA-SMA-10.11	Complete with Controls	Sept. 13, 2006	NMED 2006
73-002	P006 / P-SMA-2	Complete with Controls	Aug. 13, 2007	NMED 2007
73-006	P006 / P-SMA-2	Complete with Controls	Aug. 13, 2007	NMED 2007

2.7 Sampler Relocations at SMAs

Pursuant to Part I, Section D.2 of the Permit, SMA locations are based on reasonable site accessibility for sampling purposes and the Permittees’ best judgment to ensure that samples taken at a particular point will be representative of discharges from Sites in the drainage area. Part I, Section D.2 of the Permit states that “Permittees may move a sampler to make minor adjustments that arise due to changes in natural conditions, unexpected events, or as otherwise necessary to ensure that the sample location is representative. Such changes can include minor updates in Site boundaries, changes in storm water drainage patterns, logistical, or security adjustments. Any such movement of a sampler will be documented in the annual [Site Discharge Pollution Prevention Plan](#) (SDPPP), and be made available for public review.”

The sampler locations for the 12 SMAs listed in Table 2-5 were adjusted during 2011 to ensure that sampling locations are representative of Site discharges. The sampler moves resulted in either minor increases or decreases in the drainage area of the SMAs. No SMAs were relocated during 2011.

Table 2-5. Summary of Sampler Relocations effective January 1 – December 31, 2011

Permitted Feature / SMA	SDPPP Volume	Relocation Effective Date
D007 / DP-SMA-3	Volume 1	4/18/2011
L005 / LA-SMA-1.25	Volume 1	4/18/2011
P005 / P-SMA-1	Volume 1	7/12/2011
S012 / S-SMA-4.5	Volume 2	4/14/2011
S013 / S-SMA-5	Volume 2	5/11/2011
S015 / S-SMA-5.5	Volume 2	4/14/2011
M008 / M-SMA-6	Volume 2	7/13/2011
E006 / 2M-SMA-1.5	Volume 3	4/05/2011
J003 / PJ-SMA-3.05	Volume 3	4/05/2011
J008 / PJ-SMA-7	Volume 3	7/12/2011
J009 / PJ-SMA-8	Volume 3	7/12/2011
Q006 / CHQ-SMA-4.1	Volume 5	7/14/2011

Section 3. Analytical Monitoring Results

3.1 Overview

Section 3 of this Annual Report presents the analytical monitoring results for storm water runoff samples collected at SMAs during the 2011 annual reporting period as required by Part I, Sections H.2 (c) and H.2. (d) of the Permit. The initial confirmation sampling conducted after baseline control measures have been installed and implemented, but before any subsequent corrective actions have been conducted, is described in Part I, Section 3.2, Baseline Monitoring.

- ~ **106** baseline confirmation samples collected at **73** SMAs
- ~ **Baseline confirmation monitoring completed at 41** SMAs baseline
- ~ TAL exceedances observed at **68** SMAs

No corrective action monitoring samples were collected during 2011. Monitoring conducted following the completion of Corrective Action activities will be described in Section 3.3, Corrective Action Monitoring, in future reports.

The requirements for collection of confirmation monitoring samples following installation of control measures are described in Section D in Part I of the Permit. Any sampling performed for purposes of confirmation monitoring at a particular SMA must be collected during at least two (2) separate ‘measurable storm events’ occurring at least fifteen (15) days apart. Part I, Section D.3 of the Permit defines a ‘measurable storm event’ as

“...a storm event after installation of applicable control measures that results in an actual discharge from that Site or Sites and that produces sufficient volume to perform the required analyses, provided the interval since the preceding sampled storm event is at least fifteen (15) days.” (Part I, Section D.3)

All samples collected for purposes of confirmation monitoring must be taken at the SMA locations specified in Appendix A, Table A-1, of the Permit. Section 2.7 of this report summarizes sampler relocations at 12 SMAs during 2011.

The pollutants of concern to be monitored for each SMA are specified in Appendix B of the Permit. The validated analytical monitoring results for confirmation samples are compared with the applicable Target Action Levels (TALs) established in Part I, Section C of the Permit.

- Monitoring results based on validated analytical data showing pollutant concentrations above applicable TALs at any Site indicate that corrective action is required as provided in Part I, Section E of the Permit.
- As provided in Part I, Section I.6 of the Permit, a TAL exceedance is not a noncompliance with the requirements of the Permit provided that the Permittees take the required corrective action within the relevant deadlines.

Target Action Levels
are not themselves effluent limitations, but are benchmarks to determine the effectiveness of control measures implemented to meet the non-numeric technology-based effluent limitations.

Section 3.2.3 of this report identifies pollutants of concern which exceed applicable Maximum Target Action Level (MTAL) or Average Target Action Level (ATAL) values after installation of baseline control measures.

Part I, Sections D.4 (a) - (b) of the Permit allow the reduction of monitoring requirements if confirmation results are below applicable TALs. A minimum of two confirmation samples must be collected and analyzed before removing a particular pollutant of concern or a particular SMA from monitoring requirements, except as provided in Part I, Sections E.5 (d) and (e) of the Permit.

3.2 Baseline Monitoring

The initial monitoring requirements and frequency of sampling for each pollutant of concern following installation and implementation of baseline control measures vary on a site-by-site basis as specified in Part I, Section D.1 of the Permit.

- For Sites at which baseline control measures were installed and implemented prior to the November 1, 2010 effective date, two (2) or more confirmation samples shall be collected before November 1, 2011 at the associated SMAs. There are 63 SMAs with an October 31, 2011 baseline monitoring target date.
- For Sites at which baseline control measures are installed within six months of the effective date, two (2) or more confirmation samples shall be collected before May 1, 2012 at the associated SMAs. There are 187 SMAs with an April 30, 2012 baseline monitoring target date.

The pollutants of concern to be monitored for each SMA are specified in Appendix B of the Permit. At a minimum, all SMAs must be initially monitored for metals, gross alpha radiation, Ra-226 + Ra-228, and cyanide (weak acid dissociable). Some SMAs must also be monitored for Polychlorinated Biphenyl compounds (PCBs), high explosives, or other organic compounds as specified in Appendix B. Monitoring

must be conducted according to test procedures approved under 40 CFR Part 136, with the exception of the other test procedures specified in Section C in Part 1 of the Permit.

3.2.1 Baseline Samples Collected

The schedules and procedures for sample collection are documented in the Individual Permit [Site Discharge Pollution Prevention Plan](#) per Part I, Section F.1 (g) of the Permit. SMA storm water runoff samplers were installed and activated at SMAs beginning in May, 2011 through July, 2011. During 2011, 106 storm water runoff samples with sufficient volume to perform the required analyses were collected at 73 SMAs. Table 3-1 summarizes the number of SMAs where one, two, or no samples were collected.

Table 3-1. Summary of Baseline Monitoring Activities during 2011

Baseline Monitoring Target Date	Number of SMAs			
	One sample	Two samples	No sample	Total
October 31, 2011	7	13	43	63
April 30, 2012	33	20	134	187
Total:	40	33	177	250

Table 3-2 summarizes the baseline confirmation monitoring samples collected at SMAs during 2011 and the analytical suites for which analysis was requested. Table 3-2 also summarizes the pertinent information for the storm event that resulted in an actual discharge from the Sites as required by Part I, Section D.3 of the Permit. The meteorological data is taken from the rain gage assigned to each SMA, as discussed in Section 6.2 of this Annual Report.

Several samples that were collected at SMAs and submitted for analysis were subsequently determined to not meet the criteria for a confirmation sample. As summarized in Table 3-3, samples that were collected as a result of non-storm water discharge; after the first 30 minutes of discharge; or that were not representative of storm water discharge from the Site(s) associated with the SMA are not used as confirmatory compliance samples.

3.2.2 Baseline Analytical Monitoring Data

The validated analytical results for the baseline monitoring samples collected during 2011 are presented in Appendix C of this Annual Report. The results for metals, general inorganics, radioactivity, total PCBs, and other detected organics are given in separate tables in Appendix C. All analytical results for the Individual Permit storm water monitoring samples are available electronically in the “RACER at LANL” database at <http://racernm.com/>.

3.2.3 Baseline TAL Exceedances

Part I, Section H.2 (d) of the Permit requires that the Annual Report identify the pollutants which exceed applicable MTALs or ATALs. The analytical results for confirmation monitoring samples are compared with the applicable TAL values (or applicable Minimum Quantification Level (MQL) value, whichever is greater) to determine whether corrective action is required. Table 3-4 summarizes the applicable MTAL and ATAL exceedances for the baseline confirmation samples collected during 2011. Section 5 of this report discusses identification of 39 SMAs that are advanced to the Corrective Action phase of the Permit based on TAL exceedances.

TAL exceedances at 68 SMAs

MTAL exceedances at 50 SMAs:

~ aluminum, copper, lead, mercury, zinc, cyanide ~

ATAL exceedances at 55 SMAs:

~ gross alpha, Ra-226+Ra-228, mercury, Total PCBs, cyanide ~

3.2.4 Changes in Monitoring Requirements

Part I, Sections D.4 (a) - (b) of the Permit allow the reduction of monitoring requirements if confirmation results are below applicable TALs.

- If all analytical results for a particular pollutant of concern at a particular SMA are at or below the MTAL and the average of all applicable sampling results is at or below the ATAL, or the applicable MQL, whichever is greater, monitoring of that pollutant at the same SMA is no longer required for the remaining period of the Permit.
- Similarly, if the analytical results for all pollutants of concern at a particular SMA are at or below the MTALs and the average of all applicable sampling results is at or below the ATALs, or the applicable MQLs, whichever is greater, no further sampling is required for the Site or group of Sites within the associated SMA for the remaining period of the Permit.

A minimum of two confirmation samples must be collected and analyzed before removing a particular pollutant of concern or a particular SMA from monitoring requirements, except as provided in Part I, Section E of the Permit:

- If, during any period in which two confirmation samples are required, only one confirmation sample could be collected from a measurable storm event, compliance with the applicable TALs will be determined by the single confirmation sample result. Part I, Section E.5 (d)
- If no confirmation sample could be collected during the applicable period from a measurable storm event, confirmation sampling shall continue until at least one sample is collected, and compliance with applicable TALs will be determined based on the single result from the first successful confirmation sampling event. Part I, Section E.5 (e)

LANL will discontinue monitoring at 2 SMAs based on the above criteria: ACID-SMA-1.05 and PJ-SMA-14.8. LANL will continue to inspect the Sites in accordance with Part I, Section G of the Permit and to maintain all control measures in effective operating condition as required by Part I, Section B.2.

3.2.5 Extended Baseline Monitoring

If no confirmation sample could be collected during the applicable period from a measurable storm event, Part I, Section E.5 (e) of the Permit requires that confirmation sampling shall continue until at least one sample is collected. Table 3-5 summarizes the status of baseline confirmation monitoring as of December 31, 2011. The baseline confirmation monitoring status for each SMA is detailed in Appendix C of this report.

3.3 Corrective Actions Monitoring

No Corrective Action monitoring samples were collected during the 2011 annual reporting period.

Baseline monitoring was initiated during 2011 at **63 SMAs** with a baseline monitoring target date of October 31, 2011.

- ~ One (1) or two (2) samples were collected at **20** of the 63 SMAs prior to October 31, 2011, completing the baseline monitoring requirements.
- ~ **18** of the 20 sampled SMAs had TAL exceedances and are advanced to the Corrective Action phase of the Permit. Section 5 of this report discusses the Corrective Action activities planned for 2012.
- ~ **1** of the 20 sampled SMAs had only one sample collected and no TAL exceedances were observed. No further confirmation monitoring is required at ACID-SMA-1.05 per Section D.4 (b) of the Permit.
- ~ **1** of the 20 sampled SMAs had only one sample collected and no TAL exceedances were observed. However, the High Explosives results cannot be used for confirmation purposes due to data quality issues. Baseline confirmation monitoring will continue at PJ-SMA-16 until an additional sample is collected.
- ~ No confirmation samples were collected at the remaining **44** SMAs. Extended baseline monitoring will continue during 2012 until one confirmation sample has been collected per Section E.5 (e).

Baseline monitoring was initiated during 2011 at **187 SMAs** with a baseline monitoring target date of April 30, 2012.

- At **20** of the 187 SMAs, 2 samples were collected prior to December 31, 2011, completing the baseline monitoring requirements.
 - ~ **19** of the 20 SMAs with two samples had TAL exceedances and are advanced to the Corrective Action phase of the Permit. Section 5 of this report discusses the Corrective Action activities planned for 2012.
 - ~ **1** of the 20 SMAs with two samples had no TAL exceedances. No further confirmation monitoring is required at PJ-SMA-14.8 per Section D.4 (b) of the Permit.
- At **33** of the 187 SMAs, 1 sample was collected prior to December 31, 2011.
 - ~ For **2** of the 33 SMAs with one sample, MTAL exceedances were observed and the sample results for pollutants with ATALs indicated a high probability of exceeding the ATAL if a second sample is collected. LA-SAMA-1 and S-SMA-3.5 are preemptively advanced to the Corrective Action phase of the Permit.
 - ~ **31** of the 33 SMAs with one sample will continue baseline monitoring until April 30, 2012.
- No confirmation samples were collected at **134** of the 187 SMAs prior to December 31, 2012. Extended baseline monitoring will continue during 2012 until one confirmation sample has been collected.

Table 3-2. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Sampled Storm Event ¹					Requested Analyses ²						
		Storm Date	Rain Gage	24-hr Total (in)	Duration (hours)	Interval (days)	Radio-activity	Metals	Cyanide	PCBs	Pesticides	Semivolatiles Compounds	High Explosives
R002	R-SMA-1	7/2/11	RG-NCOM	0.14	1		X	X	X				
R002	R-SMA-1	8/19/11	RG-NCOM	0.45	1.75	48	X	X	X				
R003	R-SMA-1.95	8/19/11	RG038	0.78	1.5		X	X	X				X
P001	ACID-SMA-1.05	8/21/11	RG055.5	1.37	1.66		X	X	X	X	X		
P002	ACID-SMA-2	8/19/11	RG055.5	1.18	1.66		X	X	X	X			
L001	LA-SMA-0.85	7/30/11	RG121.9	0.23	1.41		X	X	X				
L001	LA-SMA-0.85	8/14/11	RG121.9	0.34	1.75	15	X	X	X				
L003	LA-SMA-1	8/19/11	RG121.9	1.05	1.66		X	X	X	X			
L004	LA-SMA-1.1	7/28/11	RG121.9	0.16	0.41		X	X	X				
L004	LA-SMA-1.1	8/19/11	RG121.9	1.05	1.66	22	X	X	X				
L005	LA-SMA-1.25	7/30/11	RG121.9	0.23	1.41		X	X	X				
L005	LA-SMA-1.25	8/28/11	RG121.9	0.06	0.5	29	X	X	X				
L007	LA-SMA-2.3	8/21/11	RG055.5	1.37	1.66		X	X	X				
L010	LA-SMA-4.1	8/19/11	RG055.5	1.18	1.66		X	X	X	X			
L010	LA-SMA-4.1	9/4/11	RG055.5	0.31	1.58	16	X	X	X	X			
L012A	LA-SMA-5.02	8/3/11	RG055.5	0.11	0.75		X	X	X	X			
L012A	LA-SMA-5.02	8/19/11	RG055.5	1.18	1.66	16	X	X	X	X			
L014	LA-SMA-5.35	8/4/11	RG055.5	0.66	2.16		X	X	X				
L014	LA-SMA-5.35	9/7/11	RG055.5	0.38	0.75	34	X	X	X				
L015	LA-SMA-5.31	8/19/11	RG038	0.78	1.5		X	X	X				
L016	LA-SMA-5.33	8/21/11	RG038	0.54	1.58		X	X	X				
L019	LA-SMA-5.91	9/7/11	RG038	0.41	1		X	X	X				
L030A	LA-SMA-10.12	9/1/11	RG-TA-53	1.33	4.25		X	X	X				
D001	DP-SMA-0.3	8/19/11	RG038	0.78	1.5		X	X	X				
D007	DP-SMA-3	7/29/11	RG038	0.09	0.5		X	X	X				

1. Rain gage assignments for SMAs during 2011 are described in Section 6 of this Annual Report and in the SDPPP. If the first sampled storm event of the season is being reported, no value is given for the interval between storm events.
2. Radioactivity: gross alpha radiation; Ra-226+Ra-228. Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc (dissolved); mercury, selenium (total). Cyanide: weak acid dissociable cyanide. PCBs: Total PCB congeners. See Section C in Part I of the Permit for individual organic analytes.

Table 3-2, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Sampled Storm Event ¹					Requested Analyses ²						
		Storm Date	Rain Gage	24-hr Total (in)	Duration (hours)	Interval (days)	Radio-activity	Metals	Cyanide	PCBs	Pesticides	Semivolatiles Compounds	High Explosives
S001	S-SMA-0.25	7/28/11	RG121.9	0.16	0.41		X	X	X	X		X	
S001	S-SMA-0.25	8/15/11	RG121.9	0.12	0.25	18	X	X	X	X		X	
S002	S-SMA-1.1	8/4/11	RG121.9	0.55	2.08		X	X	X	X			
S002	S-SMA-1.1	9/4/11	RG121.9	0.29	1.5	31	X	X	X	X			
S003	S-SMA-2	7/28/11	RG121.9	0.16	0.41		X	X	X	X			
S003	S-SMA-2	8/13/11	RG121.9	0.34	1.75	16	X	X	X	X			
S003A	S-SMA-2.01	8/5/11	RG121.9	0.54	1.75		X	X	X	X			
S003A	S-SMA-2.01	9/7/11	RG121.9	0.43	0.66	33	X	X	X	X			
S005B	S-SMA-3.53	8/4/11	RG121.9	0.55	2.08		X	X	X	X		X	
S006	S-SMA-3.6	7/28/11	RG121.9	0.16	0.41		X	X	X	X			X
S006	S-SMA-3.6	8/13/11	RG121.9	0.34	1.75	16	X	X	X	X			X
S011	S-SMA-4.1	8/2/11	RG-TA-53	0.26	1.75		X	X	X	X			
S011	S-SMA-4.1	9/1/11	RG-TA-53	1.33	4.25	30	X	X	X	X			
S016	S-SMA-6	7/30/11	RG-TA-53	0.66	2.25		X	X	X	X			X
S016	S-SMA-6	8/19/11	RG-TA-53	0.02	0.5	20	X	X	X	X			X
C002	CDB-SMA-0.25	9/1/11	RG245.5	1.08	2.08		X	X	X	X		X	
C004	CDB-SMA-1	9/7/11	RG245.5	0.94	1.08		X	X	X	X			
M001	M-SMA-1	8/19/11	RG121.9	1.05	1.66		X	X	X	X			
M001	M-SMA-1	9/7/11	RG121.9	0.43	0.66	19	X	X	X	X			
M002B	M-SMA-1.22	9/15/11	RG121.9	0.54	2.33		X	X	X				
M006	M-SMA-4	8/19/11	RG200.5	0.57	1.25		X	X	X	X			
M012A	M-SMA-10.01	8/27/11	RG200.5	0.28	0.83		X	X	X				
M012A	M-SMA-10.01	9/15/11	RG200.5	0.45	2.16	19	X	X	X				
M013	M-SMA-10.3	7/30/11	RG200.5	0.26	1.33		X	X	X	X			
M013	M-SMA-10.3	8/19/11	RG200.5	0.57	1.25	20	X	X	X	X			

1. Rain gage assignments for SMAs during 2011 are described in Section 6 of this Annual Report and in the SDPPP. If the first sampled storm event of the season is being reported, no value is given for the interval between storm events.
2. Radioactivity: gross alpha radiation; Ra-226+Ra-228. Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc (dissolved); mercury, selenium (total). Cyanide: weak acid dissociable cyanide. PCBs: Total PCB congeners. See Section C in Part I of the Permit for individual organic analytes.

Table 3-2, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Sampled Storm Event ¹					Requested Analyses ²						
		Storm Date	Rain Gage	24-hr Total (in)	Duration (hours)	Interval (days)	Radio-activity	Metals	Cyanide	PCBs	Pesticides	Semivolatiles Compounds	High Explosives
T002	T-SMA-1	7/30/11	RG200.5	0.26	1.33		X	X	X	X			
T002	T-SMA-1	8/15/11	RG200.5	0.08	0.33	16	X	X	X	X			
E001	2M-SMA-1	8/4/11	RG121.9	0.55	2.08		X	X	X				
E001	2M-SMA-1	8/20/11	RG121.9	0.05	0.41	16	X	X	X				
E002	2M-SMA-1.42	8/21/11	RG-TA-06	1.83	3		X	X	X				
E002	2M-SMA-1.42	9/15/11	RG-TA-06	0.71	3.5	25	X	X	X				
E004	2M-SMA-1.44	8/21/11	RG-TA-06	1.83	3		X	X	X				
E005	2M-SMA-1.45	9/7/11	RG-TA-06	0.61	1.25		X	X	X				
E007	2M-SMA-1.65	8/21/11	RG-TA-06	1.83	3		X	X	X				
E008	2M-SMA-1.67	9/15/11	RG-TA-06	0.71	3.5		X	X	X				X
E009	2M-SMA-1.7	8/3/11	RG-TA-06	0.18	1.25		X	X	X				
E009	2M-SMA-1.7	9/9/11	RG-TA-06	0.71	6	37	X	X	X				
E010	2M-SMA-1.8	8/4/11	RG-TA-06	0.19	1.5		X	X	X				
E010	2M-SMA-1.8	9/9/11	RG-TA-06	0.71	6	36	X	X	X				
E012	2M-SMA-2	7/28/11	RG121.9	0.16	0.41		X	X	X	X			
E012	2M-SMA-2	9/4/11	RG121.9	0.29	1.5	38	X	X	X	X			
E013	2M-SMA-2.2	8/13/11	RG121.9	0.34	1.75		X	X	X	X			
E013	2M-SMA-2.2	9/4/11	RG121.9	0.29	1.5	22	X	X	X	X			
J003	PJ-SMA-3.05	8/19/11	RG257	0.26	1.25		X	X	X				
J006	PJ-SMA-5.1	8/21/11	RG-TA-06	1.83	3		X	X	X				
J006	PJ-SMA-5.1	9/7/11	RG-TA-06	0.61	1.25	17	X	X	X				
J016	PJ-SMA-13.7	9/1/11	RG245.5	1.08	2.08		X	X	X				
J022	PJ-SMA-14.8	7/28/11	RG245.5	0.45	0.5		X	X	X				
J022	PJ-SMA-14.8	8/18/11	RG245.5	0.5	0.83	21	X	X	X				
J023	PJ-SMA-16	7/30/11	RG-TA-54	1.21	2.25		X	X	X				X

1. Rain gage assignments for SMAs during 2011 are described in Section 6 of this Annual Report and in the SDPPP. If the first sampled storm event of the season is being reported, no value is given for the interval between storm events.
2. Radioactivity: gross alpha radiation; Ra-226+Ra-228. Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc (dissolved); mercury, selenium (total). Cyanide: weak acid dissociable cyanide. PCBs: Total PCB congeners. See Section C in Part I of the Permit for individual organic analytes.

Table 3-2, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Sampled Storm Event ¹					Requested Analyses ²						
		Storm Date	Rain Gage	24-hr Total (in)	Duration (hours)	Interval (days)	Radio-activity	Metals	Cyanide	PCBs	Pesticides	Semivolatiles Compounds	High Explosives
J027	PJ-SMA-20	7/29/11	RG-TA-54	1.16	1		X	X	X	X			
J028	STRM-SMA-1.05	8/5/11	RG240	0.3	1.33		X	X	X				
J028	STRM-SMA-1.05	8/26/11	RG240	0.1	0.33	21	X	X	X				
J030	STRM-SMA-4.2	8/21/11	RG240	1.09	1.75		X	X	X				
J030	STRM-SMA-4.2	9/9/11	RG240	0.93	4.58	19	X	X	X				
J031	STRM-SMA-5.05	8/21/11	RG240	1.09	1.75		X	X	X	X			
V004	CDV-SMA-1.45	8/21/11	RG253	12.28	3		X	X	X				
V008	CDV-SMA-2.41	8/21/11	RG257	2.66	2.52		X	X	X	X			
V009	CDV-SMA-2.5	9/1/11	RG257	0.49	1.41		X	X	X			X	X
V010	CDV-SMA-3	8/21/11	RG257	2.52	2.66		X	X	X				X
V012A	CDV-SMA-6.02	8/13/11	RG257	0.28	1.5		X	X	X				X
V012A	CDV-SMA-6.02	9/1/11	RG257	0.49	1.41	19	X	X	X				X
F001	F-SMA-2	8/15/11	RG267.4	0.25	0.33		X	X	X				X
I001	PT-SMA-0.5	9/1/11	RG262.4	1.58	2.16		X	X	X	X		X	X
I002	PT-SMA-1	9/1/11	RG262.4	1.58	2.16		X	X	X			X	X
I004A	PT-SMA-2.01	8/18/11	RG262.4	0.9	0.66		X	X	X			X	X
W001	W-SMA-1	8/3/11	RG253	1.73	2.33		X	X	X				
W001	W-SMA-1	9/9/11	RG253	0*	0*	37	X	X	X				
W002	W-SMA-1.5	8/3/11	RG253	1.73	2.33		X	X	X				
W002	W-SMA-1.5	9/1/11	RG253	0.07	0.16	29	X	X	X				
W003	W-SMA-2.05	8/21/11	RG253	12.28	3		X	X	X				
W012A	W-SMA-8.71	8/21/11	RG257	2.52	2.66		X	X	X				
W017	W-SMA-9.9	8/21/11	RG257	2.52	2.66		X	X	X				
W018	W-SMA-10	8/21/11	RG257	2.52	2.66		X	X	X				
W019	W-SMA-11.7	9/1/11	RG262.4	1.58	2.16		X	X	X				

1. Rain gage assignments for SMAs during 2011 are described in Section 6 of this Annual Report and in the SDPPP. If the first sampled storm event of the season is being reported, no value is given for the interval between storm events.
2. Radioactivity: gross alpha radiation; Ra-226+Ra-228. Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc (dissolved); mercury, selenium (total). Cyanide: weak acid dissociable cyanide. PCBs: Total PCB congeners. See Section C in Part I of the Permit for individual organic analytes.

Table 3-2, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Sampled Storm Event ¹					Requested Analyses ²						
		Storm Date	Rain Gage	24-hr Total (in)	Duration (hours)	Interval (days)	Radio-activity	Metals	Cyanide	PCBs	Pesticides	Semivolatile Compounds	High Explosives
W021	W-SMA-14.1	7/25/11	RG262.4	0.35	0.58		X	X	X				X
W021	W-SMA-14.1	8/18/11	RG262.4	0.9	0.66	24	X	X	X				X
W022	W-SMA-15.1	9/1/11	RG262.4	1.58	2.16		X	X	X				
A004	A-SMA-2.7	7/24/11	RG265	0.42	0.91		X	X	X				X
A004	A-SMA-2.7	9/4/11	RG265	0.38	2	42	X	X	X				X
Q002A	CHQ-SMA-1.02	8/21/11	RG340	0.62	1.58		X	X	X	X			

(*) At W-SMA-1, no precipitation was recorded at the associated rain gage RG253 for the sample collected on September 9, 2011. However, there were widespread storm events in the area on September 9, 2011 and 0.58 inches of rain were recorded for that day at the next nearest rain gage, RG257.

1. Rain gage assignments for SMAs during 2011 are described in Section 6 of this Annual Report and in the SDPPP. If the first sampled storm event of the season is being reported, no value is given for the interval between storm events.
2. Radioactivity: gross alpha radiation; Ra-226+Ra-228. Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc (dissolved); mercury, selenium (total). Cyanide: weak acid dissociable cyanide. PCBs: Total PCB congeners. See Section C in Part I of the Permit for individual organic analytes.

Table 3-3. Non-Compliance Samples Collected at SMAs during 2011

Permitted Feature	Site Monitoring Area	Station Number	Sample Date	Sample ID	F/UF	Sample Type	Explanation
n/a	P-SMA-3	SS054	8/4/2011	WT_IPLAP-11-10462	F	INV	Samples were originally attributed to P-SMA-3.05, SS090802, which is the new SMA and station assignment under the IP. Subsequently it was discovered that the sampler was installed at the former FFCA monitoring location and had not been relocated to the 2011 IP SMA location. The Location information was subsequently changed so that the samples are now attributed to the former Federal Facilities Compliance Agreement (FFCA) SMA, P-SMA-3, and the former FFCA station number SS054.
				WT_IPLAP-11-10464	UF	INV	
			9/4/2011	WT_IPLAP-11-10463	F	INV	
				WT_IPLAP-11-10465	UF	INV	
L004	LA-SMA-1.1	SS081004	10/26/2011	WT_IPLAP-12-1356	UF	INV	Third sample collected at LA-SMA-1.1; collected several hours after the beginning of discharge. Samples collected for purpose of confirmation monitoring must be collected within the first hour of a measurable storm event.
				WT_IPLAP-12-1357	F	INV	
D006	DP-SMA-2.35	SS091901	9/9/2011	WT_IPLAP-11-10550	F	INV	At the time of sample retrieval, field personnel reported that storm water overflowed the nearby road due a damaged berm, and the sample collected may not be representative of the Site. Subsequent field evaluation verified that the sample collected was probably not representative of the Site due to overflow from the nearby road.
				WT_IPLAP-11-10552	UF	INV	
J027	PJ-SMA-20	SS092332	8/22/2011	WT_IPPAJ-11-11180	F	INV	A review of precipitation records revealed that no precipitation had occurred on 8/22/2011. Further investigation determined that the water collected at the sampler originated from flushing of the fire suppression system in Dome 230 located at TA-54 in the vicinity of the sampler.
				WT_IPPAJ-11-11182	UF	INV	
V003	CDV-SMA-1.4	SS2542	8/21/2011	WT_IPWAT-11-11247	F	INV	CDV-SMA-1.4 was inundated with floodwater as a result of an intense storm event on August 21, 2011. The storm water runoff overtopped US 501 and carried ash from Forest Service burned areas into the CDV-SMA-1.4 drainage area. The sample collected was not representative of the Site.
				WT_IPWAT-11-11249	UF	INV	

F=Filtered; UF = Unfiltered; INV = Investigation

Table 3-4. Summary of TAL Exceedances in Baseline Monitoring Samples

Permitted Feature	Site Monitoring Area	Baseline Monitoring Target Date	No. Samples Collected	First Sample Date	Second Sample Date	MTAL Exceedance(s)	ATAL Exceedance(s)
R002	R-SMA-1	30-Apr-12	2	02-Jul-11	19-Aug-11	Aluminum, Zinc	Gross alpha
R003	R-SMA-1.95	30-Apr-12	1	19-Aug-11	n/a	(none)	Gross alpha
P001	ACID-SMA-1.05	31-Oct-11	1	21-Aug-11	n/a	(none)	(none)
P002	ACID-SMA-2	31-Oct-11	1	19-Aug-11	n/a	Aluminum	Gross alpha, Total PCB
L001	LA-SMA-0.85	31-Oct-11	2	30-Jul-11	14-Aug-11	Aluminum, Copper, Lead, Zinc	(none)
L003	LA-SMA-1	30-Apr-12	1	19-Aug-11	n/a	Aluminum, Copper, Lead	Gross alpha
L004	LA-SMA-1.1	30-Apr-12	2	28-Jul-11	19-Aug-11	Copper, Zinc	Gross alpha
L005	LA-SMA-1.25	31-Oct-11	2	30-Jul-11	28-Aug-11	Copper, Zinc	(none)
L007	LA-SMA-2.3	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
L010	LA-SMA-4.1	31-Oct-11	2	19-Aug-11	4-Sep-11	Copper	Gross alpha, Total PCB
L012A	LA-SMA-5.02	30-Apr-12	2	03-Aug-11	19-Aug-11	Copper	Total PCB
L014	LA-SMA-5.35	31-Oct-11	2	04-Aug-11	7-Sep-11	Copper	Gross alpha
L015	LA-SMA-5.31	30-Apr-12	1	19-Aug-11	n/a	Copper	Gross alpha
L016	LA-SMA-5.33	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
L019	LA-SMA-5.91	31-Oct-11	1	07-Sep-11	n/a	(none)	Gross alpha
L030A	LA-SMA-10.12	30-Apr-12	1	01-Sep-11	n/a	(none)	Gross alpha
D001	DP-SMA-0.3	30-Apr-12	1	19-Aug-11	n/a	(none)	Gross alpha, Radium-226 and Radium-228
D007	DP-SMA-3	30-Apr-12	1	29-Jul-11	n/a	Aluminum, Copper	Gross alpha
S001	S-SMA-0.25	31-Oct-11	2	28-Jul-11	15-Aug-11	Copper, Zinc	Gross alpha, Total PCB
S002	S-SMA-1.1	30-Apr-12	2	04-Aug-11	4-Sep-11	Copper	Total PCB
S003	S-SMA-2	31-Oct-11	2	28-Jul-11	13-Aug-11	Copper, Zinc	Total PCB
S003A	S-SMA-2.01	30-Apr-12	2	05-Aug-11	7-Sep-11	Copper	Total PCB
S005B	S-SMA-3.53	30-Apr-12	1	04-Aug-11	n/a	Aluminum, Copper	Gross alpha, Total PCB
S006	S-SMA-3.6	31-Oct-11	2	28-Jul-11	13-Aug-11	Copper, Zinc	Total PCB
S011	S-SMA-4.1	30-Apr-12	2	02-Aug-11	1-Sep-11	(none)	Total PCB

Table 3-4, cont'd. Summary of TAL Exceedances in Baseline Monitoring Samples

Permitted Feature	Site Monitoring Area	Baseline Monitoring Target Date	No. Samples Collected	First Sample Date	Second Sample Date	MTAL Exceedance(s)	ATAL Exceedance(s)
S016	S-SMA-6	30-Apr-12	2	30-Jul-11	19-Aug-11	Aluminum, Copper	Cyanide (wad), Gross alpha, Radium-226 and Radium-228, Total PCB
C002	CDB-SMA-0.25	31-Oct-11	1	01-Sep-11	n/a	Aluminum, Copper	Total PCB
C004	CDB-SMA-1	30-Apr-12	1	07-Sep-11	n/a	Aluminum, Copper	Gross alpha, Total PCB
M001	M-SMA-1	31-Oct-11	2	19-Aug-11	7-Sep-11	(none)	Gross alpha, Total PCB
M002B	M-SMA-1.22	30-Apr-12	1	15-Sep-11	n/a	Aluminum, Copper	(none)
M006	M-SMA-4	31-Oct-11	1	19-Aug-11	n/a	Copper	Radium-226 and Radium-228, Total PCB
M012A	M-SMA-10.01	30-Apr-12	2	27-Aug-11	15-Sep-11	Copper	(none)
M013	M-SMA-10.3	30-Apr-12	2	30-Jul-11	19-Aug-11	Aluminum, Copper, Zinc	Total PCB
T002	T-SMA-1	30-Apr-12	2	30-Jul-11	15-Aug-11	Copper, Zinc	Total PCB
E001	2M-SMA-1	31-Oct-11	2	04-Aug-11	20-Aug-11	Aluminum	(none)
E002	2M-SMA-1.42	30-Apr-12	2	21-Aug-11	15-Sep-11	Aluminum	Gross alpha
E004	2M-SMA-1.44	30-Apr-12	1	21-Aug-11	n/a	Copper	Gross alpha
E005	2M-SMA-1.45	30-Apr-12	1	07-Sep-11	n/a	(none)	Gross alpha
E007	2M-SMA-1.65	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
<i>E008</i>	<i>2M-SMA-1.67</i>	<i>30-Apr-12</i>	<i>1</i>	<i>15-Sep-11</i>	<i>n/a</i>	<i>(none)</i>	<i>(none)</i>
E009	2M-SMA-1.7	30-Apr-12	2	03-Aug-11	9-Sep-11	Copper	(none)
E010	2M-SMA-1.8	30-Apr-12	2	04-Aug-11	9-Sep-11	Copper, Zinc	(none)
E012	2M-SMA-2	30-Apr-12	2	28-Jul-11	4-Sep-11	Copper, Zinc	Total PCB
E013	2M-SMA-2.2	31-Oct-11	2	13-Aug-11	4-Sep-11	Copper, Zinc	Total PCB
J003	PJ-SMA-3.05	30-Apr-12	1	19-Aug-11	n/a	Cyanide (wad)	Cyanide (wad), Gross alpha
J006	PJ-SMA-5.1	30-Apr-12	2	21-Aug-11	7-Sep-11	Copper, Zinc	Gross alpha
J016	PJ-SMA-13.7	30-Apr-12	1	01-Sep-11	n/a	(none)	Gross alpha
<i>J022</i>	<i>PJ-SMA-14.8</i>	<i>31-Oct-11</i>	<i>2</i>	<i>28-Jul-11</i>	<i>18-Aug-11</i>	<i>(none)</i>	<i>(none)</i>
<i>J023</i>	<i>PJ-SMA-16</i>	<i>31-Oct-11</i>	<i>1</i>	<i>30-Jul-11</i>	<i>n/a</i>	<i>(none)</i>	<i>(none)</i>
J027	PJ-SMA-20	30-Apr-12	1	29-Jul-11	n/a	Copper	(none)

Table 3-4. Summary of TAL Exceedances in Baseline Monitoring Samples

Permitted Feature	Site Monitoring Area	Baseline Monitoring Target Date	No. Samples Collected	First Sample Date	Second Sample Date	MTAL Exceedance(s)	ATAL Exceedance(s)
J028	STRM-SMA-1.05	31-Oct-11	2	05-Aug-11	26-Aug-11	Copper	(none)
J030	STRM-SMA-4.2	31-Oct-11	2	21-Aug-11	9-Sep-11	Aluminum	(none)
J031	STRM-SMA-5.05	31-Oct-11	1	21-Aug-11	n/a	Aluminum	Gross alpha, Total PCB
V004	CDV-SMA-1.45	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
V008	CDV-SMA-2.41	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha, Total PCB
V009	CDV-SMA-2.5	30-Apr-12	1	01-Sep-11	n/a	(none)	(none)
V010	CDV-SMA-3	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
V012A	CDV-SMA-6.02	30-Apr-12	2	13-Aug-11	12-Sep-11	Copper, Mercury	Gross alpha, Mercury
F001	F-SMA-2	30-Apr-12	1	15-Aug-11	n/a	Aluminum, Copper	Gross alpha
I001	PT-SMA-0.5	30-Apr-12	1	01-Sep-11	n/a	Aluminum, Copper	Gross alpha
I002	PT-SMA-1	30-Apr-12	1	01-Sep-11	n/a	Aluminum, Copper, Zinc	Gross alpha
I004A	PT-SMA-2.01	30-Apr-12	1	18-Aug-11	n/a	(none)	Gross alpha
W001	W-SMA-1	31-Oct-11	2	03-Aug-11	9-Sep-11	Aluminum	Gross alpha
W002	W-SMA-1.5	30-Apr-12	2	03-Aug-11	9-Sep-11	Copper, Zinc	(none)
W003	W-SMA-2.05	30-Apr-12	1	21-Aug-11	n/a	Aluminum	(none)
W012A	W-SMA-8.71	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
W017	W-SMA-9.9	30-Apr-12	1	21-Aug-11	n/a	Aluminum	Gross alpha
W018	W-SMA-10	30-Apr-12	1	21-Aug-11	n/a	(none)	Gross alpha
W019	W-SMA-11.7	30-Apr-12	1	01-Sep-11	n/a	Aluminum	Gross alpha
W021	W-SMA-14.1	30-Apr-12	2	25-Jul-11	18-Aug-11	Copper, Zinc	(none)
W022	W-SMA-15.1	30-Apr-12	1	01-Sep-11	n/a	(none)	Gross alpha
A004	A-SMA-2.7	30-Apr-12	2	24-Jul-11	4-Sep-2011	Copper	Gross alpha
Q002A	CHQ-SMA-1.02	30-Apr-12	1	21-Aug-11	n/a	Copper	Total PCB

Table 3-5. Summary of Baseline Monitoring Status as of December 31, 2011

Baseline Monitoring Target Date	No. of Samples Collected	No. of SMAs	Baseline Monitoring Status
31-Oct-11	2	13	Monitoring completed with TAL exceedances. SMA is advanced to Corrective Action.
	1	5	Monitoring completed with TAL exceedances. SMA is advanced to Corrective Action.
		1	Monitoring completed with no TAL exceedances. No further monitoring required.
	None	44	Continue monitoring until one sample is collected.
30-Apr-12	2	19	Monitoring completed with TAL exceedances. SMA is advanced to Corrective Action.
		1	Monitoring completed with no TAL exceedances. No further monitoring required.
	1	2	One sample with MTAL and ATAL exceedances. SMA is preemptively advanced to Corrective Action.
		31	Monitor until 4/30/2012.
	None	134	Monitor until 4/30/2012 or one sample is collected, whichever is later.

Section 4. Baseline Control Measures Activities

4.1 Overview

Part I, Section H.2 (e) of the Permit requires that the Annual Report provide a description of baseline control measures installed, including the completion date or targeted completion date. Part I, Section A of the Permit requires the Permittees to install baseline control measures (BCMs) at all permitted Sites identified in Appendix A of the Permit as necessary to meet the non-numeric technology-based effluent limits intended to minimize pollutants in storm water discharges. The Permittees must select, design, install and implement BCMs - including best management practices (BMPs) - in accordance with good engineering practices and manufacturer's specifications.

~ **1,819** baseline control measures were installed and certified at 250 SMAs on schedule during 2010 and 2011

~ **105** "augmented" baseline control measures were installed at **49** SMAs during 2011

The BCMs must address the following non-numeric technology-based effluent limitations as listed in Part I, Sections A.1 – 5 of the Permit.

1. Erosion and sedimentation controls
2. Management of run-on and runoff
3. Employee training
4. Elimination of unauthorized discharges
5. Other controls, where applicable, such as:
 - a) controls to ensure that no waste, garbage, or floatable debris are discharged to receiving waters;
 - b) minimization of dust generation and off-site vehicle tracking;
 - c) minimization of the introduction of raw, final, or waste materials to exposed areas; and/or
 - d) placement of flow velocity dissipation devices if the flows would otherwise create erosive conditions.

Part I, Section B.1 of the Permit required the Permittees to install and implement the BCMs specified in Appendix E of the Permit at all SMAs, and to certify completion of BCM installation to address the non-numeric effluent limits to EPA within 30 days of completion of such measures, but no later than May 30, 2011. LANL conducted BCM installation and certification activities during 2010 and 2011 and successfully met the Part I, Section B.1 requirements within the Permit deadlines.

Following the installation and certification of the BCMs required by Appendix E of the Permit, LANL undertook an extensive field effort during 2011 to supplement the certified BCMs with more robust control measures at some SMAs. These supplemental control measures are referred to as "augmented"

baseline control measures and are discussed in Section 4.4 of this report. “Augmented” control measures are not installed as a result of a TAL exceedance or requirement for corrective action.

At seven SMAs, existing certified BCMs were significantly modified to improve their functionality; for example, the height and length of certified berms were increased. The certified BCMs that were modified to augment functionality during 2011 are also discussed in Section 4.4 of this report.

4.2 Description of Baseline Control Measures

Part I, Section H.2 (e) of the Permit requires that the Annual Report provide a description of the specific BCMs installed or to be installed at each Site. A detailed list of all structural BCMs installed at each SMA to meet the requirements of Appendix E of the Permit is provided in Appendix D to this Annual Report.

The general types and intended purposes of structural BCMs are described in Appendix E, Section I, of the Permit.

- Erosion and sediment control measures are intended to minimize the potential for erosion occurring when storm water runoff flows across an area and to retain transported sediment onsite.
- Run-on and runoff control measures are intended to divert, infiltrate, reuse, contain, or otherwise reduce storm water run-on and/or runoff.
- The Permit specifies the types of BCMs installed or to be installed, and the purpose of each type of control measure, in Appendix E, Table E-1, Baseline control measures installed or planned for installation, listed by SMA.

4.3 Baseline Control Measures Installation & Certification

Part I, Section H.2. (e) of the Permit requires that the Annual Report include the completion date or targeted completion date for BCMs installed. The detailed list of all installed BCMs provided in Appendix D of this report also includes the completion date or targeted completion date, and the certification date for each BCM as applicable.

Part I, Section B.1 of the Permit establishes the six-month schedule for installation and implementation.

- The Permittees must install and implement the BCMs at all SMAs by April 30, 2011, within six (6) months of the effective date of the Permit, with the exception of those SMAs where BCM installation was completed prior to the effective date of the Permit.

- Appendix E, Table E-2 of this report, lists 65 SMAs where BCM installation and implementation were completed prior to the effective date of the Permit, and specifies that “baseline control measures associated with these SMAs shall be certified within 30 days of the effective date of the Permit.” In the NPDES Permit No. NM0030759 Response to Comments, dated September 28, 2010, U.S. EPA Region 6 concurred with LANL’s request in Comment 12 to remove two (2) SMAs from Table E-2: P-SMA-0.3 and DP-SMA-3.
- The Permittees shall certify completion of BCMs to address the non-numeric effluent limits to EPA within 30 days of completion of such measures, or if such measures have already been installed, then by December 1, 2010, within 30 days after the effective date of the Permit.

BCM activities during the 2010 and 2011 annual reporting periods were conducted as follows.

1. Structural BCMs described in Appendix E of the Permit were selected, designed, and installed to perform the functions specified in Table E-1 of the Permit.
2. Field verification was conducted to ensure that BCMs were properly installed, performed the required function(s), and met the Permit Appendix E requirements.
3. Photographic documentation was prepared for all completed BCMs.
4. Certification documentation, including the photographs, was prepared and submitted to EPA and NMED within 30 days of verification.

Field verification of installed BCMs was accomplished by separate visual inspections carried out by LANS and DOE-LASO qualified technical personnel. Following verification by both LANS and DOE, the BCM certification documentation was prepared and submitted to EPA within 30 days of the final verification inspection. The BCM certification documentation for each Permitted Feature/SMA consists of a list of the uniquely identified control measures, the type and description of the BCM, and the function performed: erosion control; sediment control; run-on control; and/or runoff control.

1819 baseline control measures were installed at all 250 SMAs
(405 associated Sites)

~ **781** baseline control measures installed at **127** SMAs (219 associated Sites)
were certified during 2010

~ **1,038** baseline control measures installed at **123** SMAs (230 associated Sites)
were certified during 2011

Table 4-1 summarizes the installation and certification activities during 2010 and 2011 that were completed to meet the Permit requirements for BCM installation, implementation, and certification. Table 4-2 summarizes the certification documents submitted to EPA Region 6 and NMED to meet the Permit requirements for certification of completed BCMs. Electronic copies of the BCM certification documents are available on the Laboratory’s external ‘Environment at LANL’ website:

<http://www.lanl.gov/environment/h2o/ip.shtml?3>.

Part I, Section B.2 of the Permit requires that the Permittees maintain all control measures in effective operating condition. If, during inspection, or any other event or observation, control measures that are not operating effectively are identified, the Permittees must repair or replace them. During 2011, certified BCMs that were no longer operating effectively were replaced by BCMs with equivalent functionality.

~ **199** certified baseline control measures were retired from service during 2011.

~ **238** additional baseline control measures were installed to replace the retired control measures.

Table 4-1. Summary of Baseline Control Measures Installation & Certification during 2010 and 2011

Watershed	Number of Permitted Features / SMAs	Number of Sites ¹	Number of BCMs Certified during 2010	Number of BCMs Certified during 2011	Total Number of BCMs Certified
Los Alamos / Pueblo	64	121	271	129	400
Sandia	19	23	83	32	115
Mortandad	45	106	244	88	332
Pajarito	51	63	141	193	334
Water / Cañon de Valle	50	92	23	416	439
Ancho	9	15	13	56	69
Chaquehui	12	29	6	124	130
Total:	250	405	781	1038	1819

1. The number of Sites may add up to more than 405 (the number of permitted Sites) because some Sites are assigned to more than one SMA.

**Table 4-2. Summary of Baseline Control Measure Certification
 Documentation Submitted as of May 1, 2011**

Required Certification Date	Submittal Date	Certification Document	Number of SMAs & Sites Certified
12/1/2010	11/23/2010	ENV-RCRA-10-218 / LA-UR-10-07681	63 SMAs 102 Sites
<i>List of Certified SMAs</i>			
2M-SMA-1	CDB-SMA-1.65	M-SMA-12.92	P-SMA-1
2M-SMA-1.43	CHQ-SMA-5.05	PJ-SMA-1.05	P-SMA-2
2M-SMA-1.5	DP-SMA-2	PJ-SMA-2	PT-SMA-3
2M-SMA-2.2	LA-SMA-0.85	PJ-SMA-4.05	PT-SMA-4.2
3M-SMA-0.2	LA-SMA-1.25	PJ-SMA-5	R-SMA-2.05
ACID-SMA-1.05	LA-SMA-3.1	PJ-SMA-6	R-SMA-2.3
ACID-SMA-2	LA-SMA-4.1	PJ-SMA-7	S-SMA-0.25
ACID-SMA-2.1	LA-SMA-4.2	PJ-SMA-8	S-SMA-2
A-SMA-1.1	LA-SMA-5.35	PJ-SMA-9	S-SMA-3.6
A-SMA-3	LA-SMA-5.91	PJ-SMA-14.6	STRM-SMA-1.05
CDB-SMA-0.15	LA-SMA-5.92	PJ-SMA-14.2	STRM-SMA-1.5
CDB-SMA-0.25	LA-SMA-6.25	PJ-SMA-14.3	STRM-SMA-4.2
CDB-SMA-1.15	LA-SMA-6.27	PJ-SMA-16	STRM-SMA-5.05
CDB-SMA-1.35	M-SMA-1	PJ-SMA-17	W-SMA-1
CDB-SMA-1.54	M-SMA-4	PJ-SMA-18	W-SMA-9.5
CDB-SMA-1.55	M-SMA-12.5	PJ-SMA-19	

**Table 4-2, cont'd. Summary of Baseline Control Measure Certification
 Documentation Submitted as of May 1, 2011**

Required Certification Date	Submittal Date	Certification Document	Number of SMAs Certified
12/16/2010	12/16/2010	ENV-RCRA-10-244 / LA-UR-10-08294	65 SMAs 92 Sites
<i>List of Certified SMAs</i>			
ACID-SMA-2.01	LA-SMA-6.31	M-SMA-11.1	S-SMA-3.52
B-SMA-0.5	LA-SMA-6.32	M-SMA-12.7	S-SMA-3.53
B-SMA-1	LA-SMA-6.34	M-SMA-12.8	S-SMA-3.7
CDB-SMA-4	LA-SMA-6.36	M-SMA-12.9	S-SMA-3.71
DP-SMA-0.4	LA-SMA-6.38	M-SMA-13	S-SMA-3.72
DP-SMA-1	LA-SMA-6.395	PJ-SMA-20	S-SMA-4.1
DP-SMA-2.35	LA-SMA-6.5	PRATT-SMA-1.05	S-SMA-5.2
DP-SMA-4	LA-SMA-10.11	P-SMA-0.3	T-SMA-1
LA-SMA-0.9	M-SMA-1.2	P-SMA-2.15	T-SMA-2.5
LA-SMA-1	M-SMA-1.21	P-SMA-3.05	T-SMA-2.85
LA-SMA-1.1	M-SMA-3.1	R-SMA-0.5	T-SMA-3
LA-SMA-2.3	M-SMA-6	R-SMA-1.95	T-SMA-4
LA-SMA-3.9	M-SMA-7	R-SMA-2.5	T-SMA-5
LA-SMA-5.01	M-SMA-7.9	S-SMA-2.01	T-SMA-6.8
LA-SMA-5.31	M-SMA-10	S-SMA-2.8	T-SMA-7
LA-SMA-5.33	M-SMA-10.01	S-SMA-3.51	T-SMA-7.1
LA-SMA-6.3			

**Table 4-2, cont'd. Summary of Baseline Control Measure Certification
 Documentation Submitted as of May 1, 2011**

Required Certification Date	Submittal Date	Certification Document	Number of SMAs Certified
1/12/2011	1/12/2011	ENV-RCRA-11-0002 / LA-UR-11-00114	57 SMAs 103 Sites
<i>List of SMAs Certified</i>			
2M-SMA-1.42	CDB-SMA-0.55	CDV-SMA-8.5	W-SMA-6
2M-SMA-1.44	CDB-SMA-1	CDV-SMA-9.05	W-SMA-7
2M-SMA-1.45	CDV-SMA-1.2	F-SMA-2	W-SMA-7.8
2M-SMA-1.65	CDV-SMA-1.3	PJ-SMA-5.1	W-SMA-7.9
2M-SMA-1.7	CDV-SMA-1.4	PJ-SMA-10	W-SMA-8
2M-SMA-1.8	CDV-SMA-1.45	PJ-SMA-11	W-SMA-8.7
2M-SMA-1.9	CDV-SMA-1.7	PJ-SMA-11.1	W-SMA-8.71
2M-SMA-2	CDV-SMA-2.3	PJ-SMA-13.7	W-SMA-9.05
2M-SMA-2.5	CDV-SMA-2.41	PJ-SMA-14.8	W-SMA-9.7
2M-SMA-3	CDV-SMA-2.42	W-SMA-1.5	W-SMA-9.8
3M-SMA-0.4	CDV-SMA-2.5	W-SMA-2.05	W-SMA-9.9
3M-SMA-0.5	CDV-SMA-2.51	W-SMA-3.5	W-SMA-10
3M-SMA-0.6	CDV-SMA-7	W-SMA-4.1	W-SMA-11.7
3M-SMA-4	CDV-SMA-8	W-SMA-5	W-SMA-12.05
			W-SMA-15.1
Required Certification Date	Submittal Date	Certification Document	Number of SMAs Certified
2/11/2011	2/10/2011	ENV-RCRA-11-0026 / LA-UR-11-00912	26 SMAs 46 Sites
<i>List of SMAs Certified</i>			
A-SMA-2	CDV-SMA-3	CHQ-SMA-1.03	CHQ-SMA-7.1
A-SMA-2.5	CDV-SMA-4	CHQ-SMA-2	DP-SMA-3
A-SMA-2.7	CDV-SMA-6.01	CHQ-SMA-3.05	M-SMA-1.22
A-SMA-2.8	CDV-SMA-6.02	CHQ-SMA-4	M-SMA-9.1
A-SMA-3.5	CHQ-SMA-0.5	CHQ-SMA-4.1	PJ-SMA-3.05
A-SMA-4	CHQ-SMA-1.01	CHQ-SMA-4.5	
A-SMA-6	CHQ-SMA-1.02	CHQ-SMA-6	

**Table 4-2, cont'd. Summary of Baseline Control Measure Certification
 Documentation Submitted as of May 1, 2011**

Required Certification Date	Submittal Date	Certification Document	Number of SMAs Certified
4/28/2011	4/27/2011	ENV-RCRA-11-0083 / LA-UR-11-10500	21 SMAs 47 Sites
<i>List of SMAs Certified</i>			
DP-SMA-0.3	LA-SMA-5.53	PJ-SMA-13	PT-SMA-2
DP-SMA-0.6	LA-SMA-5.54	PJ-SMA-14	PT-SMA-2.01
LA-SMA-5.361	LA-SMA-9	PJ-SMA-14.4	W-SMA-14.1
LA-SMA-5.362	M-SMA-12	PT-SMA-0.5	
LA-SMA-5.51	2M-SMA-1.67	PT-SMA-1	
LA-SMA-5.52	3M-SMA-2.6	PT-SMA-1.7	
Required Certification Date	Submittal Date	Certification Document	Number of SMAs Certified
5/28/2011	5/16/2011/	ENV-RCRA-11-0091 / LA-UR-11-10593	18 SMAs 25 Sites
<i>List of SMAs Certified</i>			
CDV-SMA-2	P-SMA-2.2	S-SMA-5	M-SMA-5
LA-SMA-2.1	R-SMA-1	S-SMA-5.5	M-SMA-10.3
LA-SMA-5.02	S-SMA-1.1	S-SMA-6	M-SMA-12.6
LA-SMA-5.2	S-SMA-3.95	M-SMA-3	
LA-SMA-10.12	S-SMA-4.5	M-SMA-3.5	

4.4 “Augmented” Baseline Control Measures

LANL undertook an extensive field effort during 2011 to supplement the certified BCMs with more robust control measures at some SMAs. These supplemental control measures are referred to as “augmented” BCMs, and consisted of earthen, asphalt, and base course berms; erosion control blankets; hydromulch; rip rap; seed and wood mulch; and water bars.

105 “augmented” baseline control measures were installed at 49 SMAs to supplement the certified control measures.

Table 4-3 summarizes the 105 augmented BCMs that were installed at 49 SMAs during 2011. Most (82 of the 105) augmented controls consisted of earthen berms installed with the functions of sediment control and run-on or runoff control. Earthen berms have a longer life time, are more effective, and require less maintenance than the certified baseline control measures that were replaced. As constructed, the earthen berms are typically 2 feet in height with a minimum of 2:1 side slopes. The fill material is tested for maximum density and optimum moisture before construction and the berms are compacted in 6-inch lifts during construction. The berm design is intended to decrease runoff volumes, increase infiltration rates, and capture sediment.

Existing certified berms were modified to improve functionality at seven SMAs during 2011. At CDB-SMA-0.25, an existing certified earthen berm was modified to improve functionality on April 14, 2011. At LA-SMA-6.25, LA-SMA-6.27, LA-SMA-6.3, LA-SMA-6.31, LA-SMA-6.32, and LA-SMA-6.34 the existing certified asphalt berms were modified to improve functionality on June 13, 2011.

Table 4-3. “Augmented” Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
P-SMA-3.05	P00903010010	Berm	Earthen Berm	~	X	~	X	18-May-11	Supplements existing certified BCMS.
LA-SMA-0.9	L00201060019	Seed and Mulch	Erosion Control Blanket	X	~	~	~	12-Oct-11	Supplement existing certified BCMS. Replace 3 certified straw wattles.
	L00203010013	Berm	Earthen Berm	~	X	~	X	12-Oct-11	
	L00203010014	Berm	Earthen Berm	~	X	~	X	12-Oct-11	
	L00203010015	Berm	Earthen Berm	~	X	~	X	12-Oct-11	
	L00203010016	Berm	Earthen Berm	~	X	~	X	12-Oct-11	
	L00203010017	Berm	Earthen Berm	~	X	~	X	12-Oct-11	
	L00203010018	Berm	Earthen Berm	~	X	~	X	12-Oct-11	
LA-SMA-5.33	L01601030010	Seed and Mulch	Hydromulch	X	~	~	~	31-Aug-11	Supplement existing certified BCMS. Replace 1 certified straw wattle.
	L01603010009	Berm	Earthen Berm	~	~	X	X	31-Aug-11	
	L01603040011	Berm	Asphalt Berm	~	~	X	X	31-Aug-11	
	L01603040012	Berm	Asphalt Berm	~	~	X	X	31-Aug-11	
LA-SMA-6.25	L02003040002	Berm	Asphalt Berm	~	~	X	X	01-Nov-10	Existing certified asphalt berm was modified to improve functionality on 6/13/11.
LA-SMA-6.27	L02103040001	Berm	Asphalt Berm	~	~	X	X	01-Nov-10	Existing certified asphalt berm was modified to improve functionality on 6/13/11.
LA-SMA-6.3	L02203040005	Berm	Asphalt Berm	~	~	X	X	07-Dec-10	Existing certified asphalt berm was modified to improve functionality on 6/13/11.
LA-SMA-6.31	L022A03040002	Berm	Asphalt Berm	~	~	X	X	07-Dec-10	Existing certified asphalt berm was modified to improve functionality on 6/13/11.
LA-SMA-6.32	L02303040002	Berm	Asphalt Berm	~	~	X	X	07-Dec-10	Existing certified asphalt berm was modified to improve functionality on 6/13/11.

Table 4-3, cont'd. "Augmented" Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
LA-SMA-6.34	L02403040003	Berm	Asphalt Berm	~	~	X	X	07-Dec-10	Existing certified asphalt berm was modified to improve functionality on 6/13/11.
LA-SMA-10.12	L030A03010025	Berm	Earthen Berm	~	X	~	X	15-Aug-11	Supplements existing certified BCMs. Replaces 1 certified rock check dam.
DP-SMA-0.3	D00103010014	Berm	Earthen Berm	~	~	X	X	10-Aug-11	Supplements existing certified BCMs. Replaces 1 certified rock check dam.
DP-SMA-1	D00403010011	Berm	Earthen Berm	~	X	~	X	18-May-11	Supplement existing certified BCMs.
	D004030120012	Berm	Rock Berm	~	X	~	X	18-May-11	
DP-SMA-2	D00503010011	Berm	Earthen Berm	~	X	~	X	18-May-11	Supplements existing certified BCMs. Replaces 1 certified juniper bale.
S-SMA-3.52	S005A03010004	Berm	Earthen Berm	~	~	X	X	13-Jul-11	Supplements existing certified BCMs. Replaces 1 certified straw wattle.
S-SMA-3.71	S00801030015	Seed and Mulch	Hydromulch	X	~	~	~	22-Jul-11	Supplement existing certified BCMs. Replace 4 certified straw wattles and certified seed and wood mulch.
	S00803010013	Berm	Earthen Berm	~	~	X	X	22-Jul-11	
	S00803010014	Berm	Earthen Berm	~	X	~	X	22-Jul-11	
S-SMA-3.72	S00901030011	Seed and Mulch	Hydromulch	X	~	~	~	28-Jul-11	Supplement existing certified BCMs. Replace certified rock check dam and certified seed and wood mulch.
	S00903010009	Berm	Earthen Berm	~	~	X	X	28-Jul-11	
	S00903010010	Berm	Earthen Berm	~	X	~	X	28-Jul-11	
S-SMA-5	S01303010006	Berm	Earthen Berm	~	X	~	X	06-May-11	Supplements existing certified BCMs. Replaces 2 certified straw

Table 4-3, cont'd. "Augmented" Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
									wattles.
CDB-SMA-0.15	C00101030012	Seed and Mulch	Hydromulch	X	~	~	~	15-Aug-11	Supplement existing certified BCMS. Replace 1 certified juniper bale and certified seed and wood mulch.
	C00103010013	Berm	Earthen Berm	~	X	~	X	15-Aug-11	
CDB-SMA-0.25	C00203010013	Berm	Earthen Berm	~	X	~	X	01-Nov-10	Existing certified earthen berm was modified to improve functionality.
CDB-SMA-1.54	C00703010019	Berm	Earthen Berm	~	X	~	X	13-Apr-11	Supplements existing certified BCMS.
CDB-SMA-1.65	C00903010004	Berm	Earthen Berm	~	X	~	X	15-Aug-11	Supplements existing certified BCMS. Replaces 1 certified straw wattle.
M-SMA-1.21	M002A03010006	Berm	Earthen Berm	~	X	~	X	05-Aug-11	Supplements existing certified BCMS.
M-SMA-3.5	M00503010015	Berm	Earthen Berm	~	X	~	X	06-May-11	Supplement existing certified BCMS. Replace 3 certified rock check dams.
	M00503010016	Berm	Earthen Berm	~	X	~	X	06-May-11	
	M00504060017	Channel/Swale	Rip Rap	X	X	~	~	06-May-11	
M-SMA-7.9	M01003010012	Berm	Earthen Berm	~	X	~	X	06-May-11	Supplements existing certified BCMS. Replace 3 certified straw wattles.
M-SMA-12.5	M01601030011	Seed and Mulch	Hydromulch	X	~	~	~	15-Jun-11	Supplement existing certified BCMS. Replace 4 certified straw wattles, 2 certified rock check dams, and certified seed and wood mulch.
	M01603010009	Berm	Earthen Berm	~	~	X	X	15-Jun-11	
	M01603010010	Berm	Earthen Berm	~	X	~	X	15-Jun-11	
M-SMA-12.6	M01701030011	Seed and Mulch	Hydromulch	X	~	~	~	15-Jun-11	Supplement existing certified BCMS. Replace certified seed and wood mulch.
	M01703010010	Berm	Earthen Berm	~	~	X	X	15-Jun-11	

Table 4-3, cont'd. "Augmented" Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
M-SMA-12.9	M02001030009	Seed and Mulch	Hydromulch	X	~	~	~	29-Jul-11	Supplement existing certified BCMS. Replace 1 certified straw wattle and certified seed and wood mulch.
	M02003010008	Berm	Earthen Berm	~	~	X	X	29-Jul-11	
M-SMA-13	M02203010013	Berm	Earthen Berm	~	~	X	X	28-Jul-11	Supplements existing certified BCMS. Replaces 3 certified straw wattles.
T-SMA-7	T00901030010	Seed and Mulch	Hydromulch	X	~	~	~	15-Jun-11	Supplement existing certified BCMS. Replace 1 certified straw wattle and certified seed and wood mulch.
	T00903010009	Berm	Earthen Berm	~	~	X	X	15-Jun-11	
T-SMA-7.1	T01003010007	Berm	Earthen Berm	~	X	~	X	15-Jun-11	Supplement existing certified BCMS. Replace 2 certified straw wattles.
	T01003010008	Berm	Earthen Berm	~	X	~	X	15-Jun-11	
2M-SMA-1.44	E00403010006	Berm	Earthen Berm	~	~	X	X	17-Nov-11	Supplements existing certified BCMS.
2M-SMA-1.45	E00503010014	Berm	Earthen Berm	~	X	~	X	31-Oct-11	Supplement existing certified BCMS. Replace 4 certified straw wattles.
	E00503010015	Berm	Earthen Berm	~	X	~	X	31-Oct-11	
2M-SMA-1.67	E00803010014	Berm	Earthen Berm	~	X	~	X	31-Oct-11	Supplement existing certified BCMS. Replace 5 certified straw wattles.
	E00803010015	Berm	Earthen Berm	~	X	~	X	31-Oct-11	
3M-SMA-0.2	H00103010005	Berm	Earthen Berm	~	~	X	X	15-Sep-11	Supplements existing certified BCMS. Replaces 1 certified rock check dam.
3M-SMA-0.4	H00203010004	Berm	Earthen Berm	~	X	~	X	15-Sep-11	Supplements existing certified BCMS.

Table 4-3, cont'd. "Augmented" Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
PJ-SMA-1.05	J00101010015	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	15-Apr-11	Supplement existing certified BCMs.
	J00104050012	Channel/Swale	Water Bar	X	~	X	~	04-Apr-11	
	J00104050013	Channel/Swale	Water Bar	X	~	X	~	04-Apr-11	
	J00104050014	Channel/Swale	Water Bar	X	~	X	~	04-Apr-11	
PJ-SMA-4.05	J00403010007	Berm	Earthen Berm	~	~	X	X	31-Oct-11	Supplements existing certified BCMs. Replaces 3 certified straw wattles.
PJ-SMA-6	J00703010009	Berm	Earthen Berm	~	X	~	X	31-Oct-11	Supplement existing certified BCMs. Replace 3 certified rock check dams.
	J00703010010	Berm	Earthen Berm	~	X	~	X	31-Oct-11	
	J00703010011	Berm	Earthen Berm	~	X	~	X	31-Oct-11	
PJ-SMA-14	J01703010005	Berm	Earthen Berm	~	X	~	X	21-Nov-11	Supplements existing certified BCMs.
	J01703010006	Berm	Earthen Berm	~	X	~	X	21-Nov-11	
PJ-SMA-14.6	J02101060006	Seed and Mulch	Erosion Control Blanket	X	~	~	~	16-Nov-11	Supplement existing certified BCMs. Replace certified vegetative buffer strip.
	J02103010005	Berm	Earthen Berm	~	X	~	X	16-Nov-11	
STRM-SMA-1.5	J02903010009	Berm	Earthen Berm	~	~	X	X	31-Aug-11	Supplement existing certified BCMs.
	J02903010010	Berm	Earthen Berm	~	~	X	X	31-Aug-11	
	J02903010011	Berm	Earthen Berm	~	~	X	X	31-Aug-11	
CDV-SMA-3	V01001010012	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	21-Nov-11	Supplement existing certified BCMs. Replace certified rip rap.
	V01003010010	Berm	Earthen Berm	~	X	~	X	21-Nov-11	
	V01003010011	Berm	Earthen Berm	~	X	~	X	21-Nov-11	
CDV-SMA-6.02	V012A01010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	22-Nov-11	Supplement existing certified BCMs.
	V012A03010004	Berm	Earthen Berm	~	X	~	X	22-Nov-11	
CDV-SMA-8	V01403010007	Berm	Earthen Berm	~	~	X	X	14-Nov-11	Supplement existing certified BCMs.
	V01403010008	Berm	Earthen Berm	~	~	X	X	14-Nov-11	

Table 4-3, cont'd. "Augmented" Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
F-SMA-2	F00103010010	Berm	Earthen Berm	~	X	~	X	01-Dec-11	Supplement existing certified BCMS. Replace certified rock berm.
	F00103010011	Berm	Earthen Berm	~	X	~	X	01-Dec-11	
	F00103010012	Berm	Earthen Berm	~	X	~	X	01-Dec-11	
	F00103010013	Berm	Earthen Berm	~	X	~	X	01-Dec-11	
	F00103010014	Berm	Earthen Berm	~	X	~	X	01-Dec-11	
	F00103010015	Berm	Earthen Berm	~	X	~	X	01-Dec-11	
W-SMA-8	W01103010007	Berm	Earthen Berm	~	~	X	X	14-Nov-11	Supplement existing certified BCMS. Replace certified base course berm and 1 certified rock check dam.
	W01103020008	Berm	Base Course Berm	~	~	X	X	14-Nov-11	
W-SMA-9.05	W01303010010	Berm	Earthen Berm	~	X	~	X	14-Nov-11	Supplement existing certified BCMS. Replace 4 certified straw wattles.
	W01303010011	Berm	Earthen Berm	~	X	~	X	14-Nov-11	
	W01306010012	Check Dam	Rock Check Dam	~	X	~	X	14-Nov-11	
W-SMA-9.5	W01403010006	Berm	Earthen Berm	~	~	X	X	14-Nov-11	Supplement existing certified BCMS. Replace 2 certified straw wattles.
	W01403010007	Berm	Earthen Berm	~	~	X	X	14-Nov-11	
W-SMA-9.9	W01701060021	Seed and Mulch	Erosion Control Blanket	X	~	~	~	14-Nov-11	Supplement existing certified BCMS. Replace 10 certified straw wattles, 2 certified juniper bales, and certified seed and wood mulch.
	W01703010017	Berm	Earthen Berm	~	~	X	X	14-Nov-11	
	W01703010018	Berm	Earthen Berm	~	X	~	X	14-Nov-11	
	W01703010019	Berm	Earthen Berm	~	X	~	X	14-Nov-11	
	W01703010020	Berm	Earthen Berm	~	X	~	X	14-Nov-11	
W-SMA-11.7	W01903010040	Berm	Earthen Berm	~	~	X	X	22-Sep-11	Supplements existing certified BCMS.
W-SMA-12.05	W02003010015	Berm	Earthen Berm	~	X	~	X	22-Sep-11	Supplement existing certified BCMS. Replace 7 certified straw wattles.
	W02003010016	Berm	Earthen Berm	~	X	~	X	22-Sep-11	
	W02003010017	Berm	Earthen Berm	~	X	~	X	22-Sep-11	
A-SMA-4	A00803010009	Berm	Earthen Berm	~	X	~	X	20-May-11	Supplement existing certified BCMS.

Table 4-3, cont'd. "Augmented" Baseline Control Measures Installed during 2011

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date	Comment
CHQ-SMA-3.05	Q00403010008	Berm	Earthen Berm	~	X	~	X	20-May-11	Supplement existing certified BCMS. Replaces 2 certified straw wattles.
CHQ-SMA-4	Q00503010016	Berm	Earthen Berm	~	X	~	X	20-Jul-11	Supplement existing certified BCMS. Replace 9 certified straw wattles.
	Q00503010017	Berm	Earthen Berm	~	X	~	X	20-Jul-11	
	Q00503010018	Berm	Earthen Berm	~	X	~	X	20-Jul-11	
CHQ-SMA-4.5	Q00703010009	Berm	Earthen Berm	~	X	~	X	18-Jul-11	Supplements existing certified BCMS. Replaces 3 certified straw wattles.
CHQ-SMA-7.1	Q01003010010	Berm	Earthen Berm	~	~	X	X	18-Jul-11	Supplement existing certified BCMS. Replace 4 certified straw wattles.
	Q01003010011	Berm	Earthen Berm	~	~	X	X	18-Jul-11	

Section 5. Corrective Action Activities

5.1 Overview

Part I, Section H.2 (f) of the Permit requires that the Annual Report include a description of corrective actions required under Part I, Section E of the Permit to be taken or having been taken, including completion date or targeted completion date, and progress update.

The Permittees are required to take corrective action per Part I, Section E of the Permit if confirmation monitoring indicates that Target Action Levels (TALs) are not being met at a particular site. Corrective action options specified within the Permit include the installation of “enhanced” controls, total retention of storm water, no exposure of storm water to pollutants, or by demonstration that a site has achieved Resource Conservation and Recovery Act (RCRA) “corrective action complete without controls/corrective action complete with controls” under NMED’s Consent Order.

During 2011, baseline confirmation monitoring as described in Section 3 of this report was initiated at all 250 SMAs following certification of baseline control measures. Section 5.2 of this report discusses 39 SMAs that have been advanced to the Corrective Action phase because TAL exceedances were observed during the baseline confirmation monitoring phase.

~ For **63 HIGH** Priority Sites,
Corrective Action must be completed
by October 31, 2013

~ For **342 MODERATE** Priority Sites,
Corrective Action must be completed
by October 31, 2015

39 SMAs with 65 associated Sites are formally advanced to the Corrective Action phase of the Permit as of December 31, 2011

~ **17 High Priority Sites are in Corrective Action**

~ **48 Moderate Priority Sites are in Corrective Action**

Part I, Section E.4 of the Permit categorizes the Sites into “High Priority Sites” and “Moderate Priority Sites”, and establishes deadlines for corrective action based on this prioritization.

- Permittees are required to certify completion of corrective action at all “High Priority Sites” within three (3) years of the effective date of the Permit (October 31, 2013).

- Permittees are required to certify completion of corrective action at “Moderate Priority Sites” within five (5) years of the effective date of the Permit (October 31, 2015).

Permittees shall certify completion of *installation* of control measures to EPA within 30 days of *completion of all such control measures*. This certification will include a description and photographs of all completed measures. Permittees shall also provide sampling results within 30 days of receipt of analytical results from the first measurable storm event after completion of such measures. Except as provided in Part I, Section I.2 of the Permit, Permittees are required to continue to inspect the Sites in accordance with Part I, Section G of the Permit and to maintain all control measures in effective operating condition as required by Part I, Section B.2 of the Permit. Permittees must also certify *completion of corrective action* at all Sites within the deadlines specified above.

5.2 Baseline Confirmation Results Above Target Action Levels

There are effectively two baseline monitoring periods defined within the permit. Baseline monitoring activities conducted during 2011 are described in Section 3.2 of this report.

- For SMAs where baseline control measures were installed prior to the effective date of the Permit, the Permittees are required to attempt collect two or more confirmation samples within one (1) year of the effective date of the permit (ending on October 31, 2011). If only one sample was collected within the one (1) year period, that sample will be used to determine if corrective actions are necessary.
- For the other 187 SMAs, the Permittees are required to attempt to collect two or more samples within 18 months of the effective date of the permit (ending on April 30, 2012).

Per Part I, Section E.1 (a) of the Permit if, following installation of baseline control measures, any validated sample analytical result for a specific pollutant of concern at a particular SMA is greater than the applicable MTAL (or applicable MQL, whichever is greater) or the average of all applicable sampling results is greater than the applicable ATAL (or applicable MQL, whichever is greater), the Permittees shall conduct visual inspections for all Sites within the SMA drainage area, reevaluate the existing control measures, and initiate corrective action as soon as practicable.

Table 5-1 lists the 39 SMAs and associated 65 Sites and that have entered the Corrective Action phase of the Permit as of December 31, 2011. The decision to enter the Corrective Action phase of the Permit is based on several criteria and scenarios as outlined below. If corrective action is required, the final validation date of all the analytical results for an SMA is used as the date the SMA enters the formal Corrective Action phase.

5.2.1 Monitoring Period Ending October 31, 2011

The initial monitoring period (one year from the effective date of the permit) ended on October 31, 2011. Sixty-three (63) SMAs fell within this one-year sampling period.

- SMAs have been moved into the Corrective Action phase of the Permit if one or more confirmation samples were collected by October 31, 2011 and the analytical results show an exceedance of either MTALs or ATALs. As of October 31, 2011, 18 of the 63 SMAs with 36 associated Sites meet the criteria to move into the Corrective Action phase.

5.2.2 Monitoring Period Ending April 30, 2012

For the remaining 187 SMAs, the sampling period continues until April 30, 2012 (18 months after the effective date of the permit). As of December 31, 2011, 21 of the 187 SMAs with 29 associated Sites officially moved into the Corrective Action phase of the Permit based on the following evaluation criteria.

- SMAs have been moved into the Corrective Action phase of the Permit if two confirmation samples were collected by December 31, 2011 and the analytical results show an exceedance of either MTALs or ATALs. Nineteen (19) SMAs with 26 associated Sites meet the criteria to move into the Corrective Action phase.
- For those SMAs where only one sample has been collected as of December 31, 2011 and the analytical results show an exceedance of MTALs, the probability of a second sample resulting in an ATAL exceedance has been evaluated.
 - ~ If the probability of an ATAL exceedance is low, confirmation monitoring will continue until April 30, 2012.
 - ~ If the probability of a second sample resulting in an ATAL exceedance is high, that SMA has been preemptively moved into the Corrective Action phase. Two (2) SMAs with 3 associated Sites meet the criteria to move into the Corrective Action phase: LA-SMA-1 and S-SMA-3.53.
- For those SMAs where only one sample has been collected as of December 31, 2011 and the analytical results show no exceedance of MTALs, confirmation monitoring will continue until April 30, 2012.

5.2.3 No Confirmation Samples Collected

For SMAs at which no baseline confirmation samples were collected for either monitoring period, confirmation monitoring is ongoing during 2012. Additional details for the SMA-specific baseline monitoring status are provided in Section 3 and Appendix C of this report.

Table 5-1. Individual Permit Sites in Corrective Action as of December 31, 2011

Permitted Feature	SMA Number	Site Number	Site Priority	Baseline Monitoring Target Date	Number of Samples	First Sample Date	Second Sample Date	Corrective Action Date ¹	MTAL Exceedance(s) ²	ATAL Exceedance(s) ³
Los Alamos / Pueblo Watershed										
R002	R-SMA-1	C-00-041	Moderate	30-Apr-12	2	02-Jul-11	19-Aug-11	13-Oct-11	Aluminum, Zinc	Gross alpha
P002	ACID-SMA-2	01-002(b)-00	Moderate	31-Oct-11	1	19-Aug-11	n/a	03-Nov-11	Aluminum	Gross alpha, Total PCBs
		45-001	Moderate							
		45-002	Moderate							
		45-004	Moderate							
L001	LA-SMA-0.85	03-055(c)	Moderate	31-Oct-11	2	30-Jul-11	14-Aug-11	07-Oct-11	Aluminum, Copper, Lead, Zinc	(none)
L003	LA-SMA-1	00-017	Moderate	30-Apr-12	1	19-Aug-11	n/a	03-Nov-11	Aluminum, Copper, Lead	Gross alpha
		C-00-044	Moderate							
L004	LA-SMA-1.1	43-001(b2)	Moderate	30-Apr-12	2	28-Jul-11	19-Aug-11	11-Oct-11	Copper, Zinc	Gross alpha
L005	LA-SMA-1.25	C-43-001	Moderate	31-Oct-11	2	30-Jul-11	28-Aug-11	27-Oct-11	Copper, Zinc	(none)
L010	LA-SMA-4.1	01-003(b)	Moderate	31-Oct-11	2	19-Aug-11	04-Sep-11	08-Nov-11	Copper	Gross alpha, Total PCBs
		01-006(b)	Moderate							
L012A	LA-SMA-5.02	01-003(e)	High	30-Apr-12	2	03-Aug-11	19-Aug-11	25-Oct-11	Copper	Total PCBs
L014	LA-SMA-5.35	C-41-004	Moderate	31-Oct-11	2	04-Aug-11	07-Sep-11	27-Oct-11	Copper	Gross alpha
L019	LA-SMA-5.91	21-009	Moderate	31-Oct-11	1	07-Sep-11	n/a	27-Oct-11	(none)	Gross alpha
		21-021	Moderate							
		21-023(c)	Moderate							
		21-027(d)	Moderate							

1. The corrective action date is the latest date of receipt of validated analytical data for the SMA sample(s).
2. Pollutants of concern for which a validated sample result is greater than the applicable MTAL (or applicable Minimum Quantification Level, whichever is greater).
3. Pollutants of concern for which the geometric mean of all applicable validated sampling results is greater than the applicable ATAL (or applicable Minimum Quantification Level, whichever is greater).

Table 5-1, cont'd. Individual Permit Sites in Corrective Action as of December 31, 2011

Permitted Feature	SMA Number	Site Number	Site Priority	Baseline Monitoring Target Date	Number of Samples	First Sample Date	Second Sample Date	Corrective Action Date ¹	MTAL Exceedance(s) ²	ATAL Exceedance(s) ³
Sandia Watershed										
S001	S-SMA-0.25	03-013(a)	High	31-Oct-11	2	28-Jul-11	15-Aug-11	20-Oct-11	Copper, Zinc	Gross alpha, Total PCBs
		03-052(f)	High							
S002	S-SMA-1.1	03-029	High	30-Apr-12	2	04-Aug-11	04-Sep-11	02-Nov-11	Copper	Total PCBs
S003	S-SMA-2	03-012(b)	High	31-Oct-11	2	28-Jul-11	13-Aug-11	20-Oct-11	Copper, Zinc	Total PCBs
		03-045(b)	High							
		03-045(c)	High							
		03-056(c)	High							
S003A	S-SMA-2.01	03-052(b)	High	30-Apr-12	2	05-Aug-11	07-Sep-11	02-Nov-11	Copper	Total PCBs
S005B	S-SMA-3.53	03-014(b2)	High	30-Apr-12	1	04-Aug-11	n/a	12-Oct-11	Aluminum, Copper	Gross alpha, Total PCBs
S006	S-SMA-3.6	60-007(b)	High	31-Oct-11	2	28-Jul-11	13-Aug-11	20-Oct-11	Copper, Zinc	Total PCBs
S011	S-SMA-4.1	53-014	High	30-Apr-12	2	02-Aug-11	01-Sep-11	02-Nov-11	(none)	Total PCBs
S016	S-SMA-6	72-001	High	30-Apr-12	2	30-Jul-11	19-Aug-11	02-Nov-11	Aluminum, Copper	Cyanide (wad), Gross alpha, Ra-226 + Ra-228, Total PCBs

1. The corrective action date is the latest date of receipt of validated analytical data for the SMA sample(s).
2. Pollutants of concern for which a validated sample result is greater than the applicable MTAL (or applicable Minimum Quantification Level, whichever is greater).
3. Pollutants of concern for which the geometric mean of all applicable validated sampling results is greater than the applicable ATAL (or applicable Minimum Quantification Level, whichever is greater).

Table 5-1, cont'd. Individual Permit Sites in Corrective Action as of December 31, 2011

Permitted Feature	SMA Number	Site Number	Site Priority	Baseline Monitoring Target Date	Number of Samples	First Sample Date	Second Sample Date	Corrective Action Date ¹	MTAL Exceedance(s) ²	ATAL Exceedance(s) ³
Mortandad / Cañada del Buey Watershed										
C002	CDB-SMA-0.25	46-004(c2)	Moderate	31-Oct-11	1	01-Sep-11	n/a	02-Nov-11	Aluminum, Copper	Total PCBs
M001	M-SMA-1	03-050(a)	Moderate	31-Oct-11	2	19-Aug-11	07-Sep-11	02-Nov-11	(none)	Gross alpha, Total PCBs
		03-054(e)	Moderate							
M006	M-SMA-4	48-001	Moderate	31-Oct-11	1	19-Aug-11	n/a	24-Oct-11	Copper	Ra-226 + Ra-228, Total PCBs
		48-005	Moderate							
		48-007(a)	Moderate							
		48-007(d)	Moderate							
		48-010	Moderate							
M012A	M-SMA-10.01	35-016(e)	Moderate	30-Apr-12	2	27-Aug-11	15-Sep-11	08-Nov-11	Copper	(none)
M013	M-SMA-10.3	35-014(e2)	High	30-Apr-12	2	30-Jul-11	19-Aug-11	24-Oct-11	Aluminum, Copper, Zinc	Total PCBs
		35-016(i)	High							
T002	T-SMA-1	50-006(a)	High	30-Apr-12	2	30-Jul-11	15-Aug-11	21-Oct-11	Copper, Zinc	Total PCBs
		50-009	High							

1. The corrective action date is the latest date of receipt of validated analytical data for the SMA sample(s).
2. Pollutants of concern for which a validated sample result is greater than the applicable MTAL (or applicable Minimum Quantification Level, whichever is greater).
3. Pollutants of concern for which the geometric mean of all applicable validated sampling results is greater than the applicable ATAL (or applicable Minimum Quantification Level, whichever is greater).

Table 5-1, cont'd. Individual Permit Sites in Corrective Action as of December 31, 2011

Permitted Feature	SMA Number	Site Number	Site Priority	Baseline Monitoring Target Date	Number of Samples	First Sample Date	Second Sample Date	Corrective Action Date ¹	MTAL Exceedance(s) ²	ATAL Exceedance(s) ³
Pajarito Watershed										
E001	2M-SMA-1	03-010(a)	Moderate	31-Oct-11	2	04-Aug-11	20-Aug-11	18-Oct-11	Aluminum	(none)
E002	2M-SMA-1.42	06-001(a)	Moderate	30-Apr-12	2	21-Aug-11	15-Sep-11	10-Nov-11	Aluminum	Gross alpha
E009	2M-SMA-1.7	03-055(a)	Moderate	30-Apr-12	2	03-Aug-11	09-Sep-11	03-Nov-11	Copper	(none)
E010	2M-SMA-1.8	03-001(k)	Moderate	30-Apr-12	2	04-Aug-11	09-Sep-11	03-Nov-11	Copper, Zinc	(none)
E012	2M-SMA-2	03-050(d)	Moderate	30-Apr-12	2	28-Jul-11	04-Sep-11	03-Nov-11	Copper, Zinc	Total PCBs
		03-054(b)	Moderate							
E013	2M-SMA-2.2	03-003(k)	Moderate	31-Oct-11	2	13-Aug-11	04-Sep-11	03-Nov-11	Copper, Zinc	Total PCBs
J006	PJ-SMA-5.1	22-016	Moderate	30-Apr-12	2	21-Aug-11	07-Sep-11	31-Oct-11	Copper, Zinc	Gross alpha
J028	STRM-SMA-1.05	08-009(f)	Moderate	31-Oct-11	2	05-Aug-11	26-Aug-11	17-Oct-11	Copper	(none)
J030	STRM-SMA-4.2	09-008(b)	Moderate	31-Oct-11	2	21-Aug-11	09-Sep-11	10-Nov-11	Aluminum	(none)
J031	STRM-SMA-5.05	09-013	Moderate	31-Oct-11	1	21-Aug-11	n/a	24-Oct-11	Aluminum	Gross alpha, Total PCBs

1. The corrective action date is the latest date of receipt of validated analytical data for the SMA sample(s).
2. Pollutants of concern for which a validated sample result is greater than the applicable MTAL (or applicable Minimum Quantification Level, whichever is greater).
3. Pollutants of concern for which the geometric mean of all applicable validated sampling results is greater than the applicable ATAL (or applicable Minimum Quantification Level, whichever is greater).

Table 5-1, cont'd. Individual Permit Sites in Corrective Action as of December 31, 2011

Permitted Feature	SMA Number	Site Number	Site Priority	Baseline Monitoring Target Date	Number of Samples Collected	First Sample Date	Second Sample Date	Corrective Action Date ¹	MTAL Exceedance(s) ²	ATAL Exceedance(s) ³
Water / Cañon de Valle Watershed										
V012A	CDV-SMA-6.02	14-002(d)	Moderate	30-Apr-12	2	13-Aug-11	01-Sep-11	31-Oct-11	Copper, Mercury	Gross alpha, Mercury
		14-002(e)	Moderate							
W001	W-SMA-1	16-017(j)-99	Moderate	31-Oct-11	2	03-Aug-11	09-Sep-11	08-Nov-11	Aluminum	Gross alpha
		16-026(c2)	Moderate							
		16-026(v)	Moderate							
W002	W-SMA-1.5	16-026(b2)	Moderate	30-Apr-12	2	03-Aug-11	01-Sep-11	04-Nov-11	Copper, Zinc	(none)
		16-028(d)	Moderate							
W021	W-SMA-14.1	15-004(h)	Moderate	30-Apr-12	2	25-Jul-11	18-Aug-11	1-Oct-11	Copper, Zinc	(none)
		15-014(l)	Moderate							
Ancho Watershed										
A004	A-SMA-2.7	39-002(c)	Moderate	30-Apr-12	2	24-Jul-11	04-Sep-11	2-Oct-11	Copper	Gross alpha
		39-008	Moderate							

1. The corrective action date is the latest date of receipt of validated analytical data for the SMA sample(s).
2. Pollutants of concern for which a validated sample result is greater than the applicable MTAL (or applicable Minimum Quantification Level, whichever is greater).
3. Pollutants of concern for which the geometric mean of all applicable validated sampling results is greater than the applicable ATAL (or applicable Minimum Quantification Level, whichever is greater).

5.3 Corrective Action Options

For those SMAs that have been officially moved into the corrective action phase of the permit, there are four (4) options for implementing corrective action controls.

Individual Permit Corrective Action Options

- ~ Enhanced Control Measures
- ~ No Exposure
- ~ Total Retention
- ~ NMED Certificate of Completion

5.3.1 Enhanced Control Measures

Corrective action may entail the design and installation of enhanced (additional, expanded or better tailored) control measures reasonably expected to achieve compliance with target action levels identified in the Permit for all Sites within an SMA drainage area. After certification of installation of enhanced controls, the Permittees must attempt to collect at least two confirmation (one confirmation sample shall be collected during each of at least two (2) separate measurable storm events occurring at least fifteen (15) days apart. If either validated confirmation sample result for any specific pollutant of concern exceeds applicable target action levels, the Permittees shall conduct visual inspections for all Sites within the SMA drainage area, reevaluate the existing control measures, and initiate further measures to achieve completion of corrective as soon as practicable.

5.3.2 No Exposure

Corrective action may be accomplished through the installation of control measures to totally eliminate exposure of pollutants to storm water at a Site. "No Exposure" status is granted once the Permittees have certified and demonstrated to EPA, through the submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally eliminate exposure of pollutants to storm water. Under the option of "No Exposure", no further confirmation sampling is required, unless required by Part I, Section E.5 (c) of the Permit. Thereafter, Permittees shall collect one sample and make the analytical results available via email notification and on the public website pursuant to Part I, Section I.7 of the Permit.

5.3.3 Total Retention

Corrective action may also be achieved through installation of total retention measures. Permittees will be in compliance with the Permit at that Site once they have certified and demonstrated to EPA, through the submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally retain discharges of storm water. No further confirmation sampling is required under this option, unless required by Part I, Section E.5 (c) of the Permit.

5.3.4 NMED Certificate of Completion

The final option for achieving corrective action is through demonstration that the Site has achieved RCRA “corrective action complete without controls/corrective action complete with controls” status or a Certificate of Completion under NMED’s Consent Order. Permittees will be in compliance with the Permit at that Site once they have certified such results to EPA and provided the supporting documentation from NMED. No further confirmation sampling is required except as provided by Part I, Sections E.5 (c) and I.2 (b) of the Permit.

5.4 Description of Corrective Actions Taken or Planned

There are 39 SMAs and 65 associated Sites listed in Table 5-1 entering the Corrective Action phase of the Permit.

- At 37 of the 39 SMAs (associated with 63 of the 65 Sites), enhanced control measures will be installed as the corrective action unless certificates of completion are issued by NMED for the SWMUs and AOCs within these SMAs before the target date for completion of enhanced control measures.
- Enhanced control measure installation has been initiated but not completed at three (3) SMAs during 2011: 2M-SMA-1.42 associated with Site 06-001(a); STRM-SMA-5.05 associated with Site 09-013; and CDV-SMA-6.02 associated with Sites 14-002(d) and 14-002 (e). Descriptions of the enhanced control measures installed as of December 31, 2011 are provided in Appendix E of this report.
- The target date for completion of enhanced control measure installation at the 37 SMAs and 63 associated Sites is the third quarter of calendar year 2012.

Two Sites located in the Los Alamos/Pueblo watershed will employ the NMED Consent Order Certificate of Completion as the corrective action:

- Site 43-001(b2), associated with LA-SMA-1.1; and
- Site 01-003(e), associated with LA-SMA-5.02.

Additional Certificates of Completion may be received from NMED during 2012 and, therefore, additional sites could employ the Consent Order Certificate of Completion as the corrective action.

Table 2-5 in Section 2 of this report provides additional detail about the NMED Certificates of Completion. The target date for Certification of Completion of Corrective Action for the two Sites is the third quarter of calendar year 2012.

5.5 Alternative Compliance

No SMAs/Sites were proposed for Alternative Compliance status during the 2011 annual reporting period.

5.6 Additional Sampling Requirements

Part I, Section E.1 (b) of the Permit requires that the Permittees collect one sample for informational purposes following installation of control measures to totally eliminate exposure of pollutants to storm water at a Site. No SMAs/Sites required additional sampling during the 2011 annual reporting period.

Section 6. Summary of Inspections

6.1 Overview

Section 6 of this Annual Report summarizes the Permittees activities during the 2011 annual reporting period to meet the requirements for five types of inspections specified in Part I of the Permit.

1,178 inspections were conducted during 2011

- ~ Post-storm: **836**
- ~ Annual Erosion Evaluation: **250**
- ~ Significant Event: **6**
- ~ Visual Inspections for TAL Exceedances: **34**
- ~ Remediation Construction Activity: **52**

Post-Storm Inspection (Part I, Section G.2): Inspections of control measures at any Site affected by a “storm rain event” are reported in Section 6.2 of this report.

Annual Erosion Evaluation Inspection (Part I, Section G.1): Annual Site-specific inspection for changes of conditions affecting erosion or after notice of a significant event which could impact the control measures are reported in Section 6.3 of this report.

Significant Event Inspection (Part I, Section G.1): Site-specific inspection after notice of a significant event which could impact the control measures are reported in Section 6.4 of this report.

Visual Inspection for TAL Exceedances (Part I, Section E.1): Visual inspections for all Sites at SMAs where TAL exceedances are observed are reported in Section 6.5 of this report.

Remediation Construction Activity Inspections (Part I, Section I.1): Weekly inspections to ensure sediment and runoff control measures are maintained in good order at Sites where remediation construction activities, such as control measure installation, cause soil disturbance are reported in Section 6.6 of this report.

6.2 Post-Storm Inspections

Part I, Section G.2 of the Permit requires that the facility’s Pollution Prevention Team (PPT) inspect control measures and storm water management devices at any Site affected by a “storm rain event” within 15 calendar days after such storm rain event. A “storm rain event” is defined as a 0.25-inch or

more intensive rain event occurring within 30 minutes. If several storms exceeding the above intensity threshold occur over a period not to exceed 15 days from the first event, a single inspection following these storms is sufficient for compliance, provided that the inspection occurs no more than 15 days from the date of the first storm.

Precipitation data is collected year-round at LANL meteorological towers and is publicly available on the LANL Weather Machine at <http://weather.lanl.gov/>. In addition, an extensive seasonal rain gage network is deployed during the months of April through November when rain precipitation is most likely to occur on the Pajarito Plateau. Using a geospatial information system, SMAs are given a seasonal assignment to an individual rain gage using the method of Thiessen polygons. The use of the extended rain gage network directs the Pollution Prevention Team response to only those SMAs where precipitation exceeds the established threshold. Table 6-1 lists the rain gages in use for the 2011 season, and the numbers of SMAs and Sites assigned to each rain gage. Procedures for managing precipitation data are described in more detail in the [Site Discharge Pollution Prevention Plan](#).

Table F-1 in Appendix F to this Annual Report lists the SMAs where post-storm inspections - triggered by “storm rain events” that met or exceeded the 30-minute 0.25-inch threshold - were conducted during 2011. During the monsoon season (July through September), several storm rain events occurred over a period less than 15 days from the first event. As allowed by the Permit, a single inspection following these storms was conducted no more than 15 days from the date of the first storm. Table F-1 of this report indicates where a single inspection was conducted following two or more closely spaced storm rain events.

During 2011, 836 post-storm inspections were conducted at SMAs in response to the triggering storm events. All post-storm inspections were conducted within 15 days of the triggering storm rain event.

6.3 Annual Erosion Evaluation Inspections

Part I, Section G.1 of the Permit requires that the facility’s PPT inspect and evaluate each Site annually for changes of conditions affecting erosion. Annual erosion evaluation inspections at all 250 SMAs / 405 Sites were conducted from August through October, 2011. Table F-2 in Appendix F to this Annual Report summarizes the 2011 Annual Erosion Evaluation inspections.

Table 6-1. Individual Permit Rain Gage Network during 2011

Rain Gage	Number of SMAs	Number of Sites
<i>LANL Meteorology Towers</i>		
RG-NCOM	3	3
RG-TA-06	23	30
RG-TA-53	11	21
RG-TA-54	6	11
<i>LANL seasonal rain gages</i>		
RG038	34	70
RG055.5	16	25
RG121.9	22	30
RG200.5	23	51
RG203	12	18
RG240	5	5
RG245.5	19	43
RG253	9	17
RG257	29	56
RG262.4	14	21
RG265	4	6
RG267.4	5	8
RG340	15	34

6.4 Significant Event Inspections

The facility's pollution prevention team must re-inspect and reevaluate all Sites after notice of a significant event, such as a fire or flood, which could significantly impact the control measures and environmental conditions in the affected area. Table F-3 in Appendix F to this Annual Report summarizes inspections that were conducted at 5 SMAs in response to 6 significant events. Inspections were prompted by the following significant events.

- A-SMA-2 was inspected on June 20, 2011, after a small fire occurred in the vicinity at TA-39 on June 15, 2011. The fire was confined to a 3-acre area and did not directly impact any IP control measures.
- Following the Las Conchas Fire, A-SMA-6 and CHQ-SMA-6 were inspected in early July 2011 to assess the impact of wild fire mitigation activities that took place along the Laboratory's southern boundary. Fire mitigation activities consisted primarily of blading fire breaks.
- Following flooding in upper Cañon de Valle caused by elevated post-Las Conchas Fire storm water runoff, CDV-SMA-1.4 was inspected after flood events on two occasions in August 2011. Extensive damage to control measures and the storm water sampler occurred; backup control measures were implemented.
- M-SMA-3 was inspected on November 29, 2011 following a potable water line break and release of approximately 10,700 gallons at TA-48 over the Thanksgiving holiday weekend. The water flowed over SMA and through the storm water sampler.

6.5 Visual Inspections for TAL Exceedances

Section E.1 in Part I of the Permit requires that if, following installation baseline control measures, any validated sample analytical result for a specific pollutant of concern at a particular SMA is greater than the applicable MTAL or the average of all applicable sampling results is greater than the applicable ATAL (or applicable MQL, whichever is greater), the Permittees must conduct visual inspections for all Sites within the SMA drainage area. TAL exceedances were observed at 68 SMAs during 2011. Table F-4 in Appendix F to this Annual Report summarizes visual inspections that were conducted at 33 SMAs in response to TAL exceedances.

At the remaining 34 of 68 SMAs with TAL exceedances, the visual inspections for TAL exceedances were combined with the Annual Erosion Evaluation inspections. Visual inspection for TAL exceedances at one (1) additional SMA is pending due to winter weather conditions. The control measures are covered with snow and cannot be visually inspected; the visual inspection for TAL exceedances will be conducted in 2012 as soon as weather conditions allow.

6.6 Remediation Construction Activity Inspections

Section I.1 in Part I of the Permit requires that if disturbance of soil is required to install a control measure, the Permittees shall take all necessary steps to minimize migration of sediments and runoff from disturbed sites. The Permittees shall conduct site inspections once a week to ensure sediments and runoff control measures are maintained in good order. Corrective actions shall be taken immediately if deficiencies of control measures are noticed by either inspectors or contractors. Table F-5 in Appendix F to this Annual Report summarizes 52 Remediation Construction Activity Inspections that were conducted at 37 SMAs during 2011.

Section 7. Summary of SDPPP Changes

7.1 Overview

The initial [Site Discharge Pollution Prevention Plan](#) was completed and submitted to EPA by May 1, 2011 - within six months of the November 1, 2010 effective date of the Permit – as required by Part I, Section F of the Permit. Part I, Section F.4 of the Permit requires that the SDPPP be updated annually to fully incorporate all changes made during the previous year and to reflect any changes projected for the following year.

LANL's initial
Site Discharge Pollution Prevention Plan
was submitted to EPA and NMED
by May 1, 2011.

The **SDPPP Annual Update** will be
submitted by May 1, 2012.

Part I, Section F.3 of the Permit requires that the Permittees keep documents and records with the SDPPP as necessary to reflect:

- a) Construction or a change in design, operation, or maintenance at the facility having a significant impact on the discharge, or potential for discharge, of pollutants from the facility;
- b) Findings of deficiencies in control measures during inspection or based on analytical monitoring results;
- c) Any change of monitoring requirement or compliance status;
- d) Any change of SMA location; and
- e) Summary of changes from the last year's SDPPP.

If any of the circumstances described above occur at any Site, the Permittees must address these changes or deficiencies to ensure compliance with Permit conditions and applicable monitoring requirements. All changes must be incorporated into the SDPPP and a summary of these changes must be included in the Annual Report.

The 2012 annual update to the SDPPP will be published by May 1, 2012. The following sections summarize the SDPPP changes associated with the requirements in Part I, Section F.3 of the Permit.

7.2 Activities Impacting Discharge

There were no construction activities or changes in design, operation, or maintenance at the Sites or adjacent Laboratory facilities that resulted in a significant impact on the discharge, or potential for discharge, of pollutants from the Sites.

7.3 Findings of Deficiency

Within the 250 SMAs identified in the Permit, more than 1,800 individual control measures were installed as of December 31, 2011. During 2011, 1,178 Permit-required inspections were conducted, in order to assess both the individual control measures and overall site conditions for the 250 SMAs, as summarized in Section 6 of this report. These inspections include required visual inspections based on analytical monitoring results (i.e., TAL exceedances). A finding of deficiency is identified as an inspection that results in required maintenance action for control measures, at a Site, and/or within an SMA. In 2011 there were 162 deficiencies identified in association with inspections.

7.4 Change of Monitoring Requirements or Compliance Status

As identified in the Permit and discussed in Section 2 of this report, Sites moved through four sequential compliance phases during 2011: Baseline Control Measure Installation; Baseline Control Measure Certification; Baseline Confirmation Monitoring; and Corrective Action Initiation. A change in the compliance status of a Site reflects movement between these phases. Section 2 of this report summarizes the compliance status of Sites and SMAs as of December 31, 2011; the Site compliance status will be included in the 2012 SDPPP annual update. Changes in monitoring requirements are summarized in Section 3 of this report, specifically identifying the SMAs where baseline confirmation monitoring has been completed and those SMAs where baseline monitoring will continue.

7.5 SMA Location Changes

In accordance with Part I, Section D.2 of the Permit, minor sampler relocations were made at 12 SMAs during 2011 as summarized in Section 2.7 of this report. The sampler moves resulted in either minor increases or decreases in the drainage area of the SMA. No SMAs were relocated during 2011.

7.6 SDPPP Changes

LANL must update the SDPPP annually to incorporate changes made during the previous year, per Part I, Sections F.3 and F.4 of the Permit. Changes from the 2011 SDPPP can be summarized into the following categories.

- Update descriptions of Site and SMA conditions and features including:
 - ~ new or replaced baseline control measures to describe current control measures;
 - ~ Site boundary changes; and
 - ~ minor sampler movements.
- Update Site maps to reflect current control measures and site characteristic changes.

- Update change of Site-specific compliance status, including identification of Sites that require Corrective Action per Part I, Section E of the Permit.
- Schedules for additional control measure installation.
- Update information on monitoring and inspection schedules and procedures.
- Inclusion of precipitation data from the previous year.
- Addition of training information.
- Discussion of records and documents associated with the requirements in Part I, Section F.3 of the Permit.
- Update references and procedural documents.
- Correction of typographical and other scrivener errors.

Section 8. References

EPA 2010: *Individual Permit for Storm Water Discharge from SWMUs and AOCs*, Final Permit Modification Decision, NPDES Permit No. NM003075. Effective date November 1, 2010.
<ftp://ftp.nmenv.state.nm.us/www/swqb/NPDES/Permits/NM0030759-LANLStormwater.pdf>

LANL 2010a: *Submittal of Certification of Completion of Baseline Control Measures for 63 Site Monitoring Areas, Dated December 1, 2010*; ENV-RCRA-10-218, LAUR-10-07681. December 1, 2010.
<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-10-07681>

LANL 2010b: *Submittal of Certification of Completion of Baseline Control Measures for 65 Site Monitoring Areas, Dated December 16, 2010*; ENV-RCRA-10-244, LAUR-10-08294. December 16, 2010.
<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-10-08294>

LANL 2011a: *Submittal of Certification of Completion of Baseline Control Measures for 57 Site Monitoring Areas, Dated January 12, 2011*; ENV-RCRA-11-0002, LAUR-11-00114. January 12, 2011.
<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-00114>

LANL 2011b: *Submittal of Certification of Completion of Baseline Control Measures for 26 Site Monitoring Areas, Dated February 11, 2011*; ENV-RCRA-11-0026, LAUR-11-00912. February 11, 2011.
<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-00912>

LANL 2011c: *Storm Water Individual Permit Annual Report; Reporting Period: January 1 – December 31, 2010*. LA-UR-11-10019, (March 1, 2011). <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-10019>

LANL 2011d: *Storm Water Individual Permit Annual Compliance Status Reports (Discharge Monitoring Reports); Reporting Period: January 1 – December 31, 2010*. LA-UR-11-10064, (March 1, 2011).

LANL 2011e: *Site Discharge Pollution Prevention Plan, Volume 1, Los Alamos/Pueblo Watershed*. EP-DIR-PLAN-10003, R.0; LA-UR-11-1551. (April 18, 2011). <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-01551>

LANL 2011f: *Site Discharge Pollution Prevention Plan, Volume 2, Sandia/Mortandad Watershed*. EP-DIR-PLAN-10004, R.0; LA-UR-11-1552. (April 14, 2011). <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-01552>

LANL 2011g: *Site Discharge Pollution Prevention Plan, Volume 3, Pajarito Watershed*. EP-DIR-PLAN-10005, R.0; LA-UR-11-1553. (April 5, 2011). <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-01553>

LANL 2011h: *Site Discharge Pollution Prevention Plan, Volume 4, Water & Cañon de Valle Watershed*. EP-DIR-PLAN-10006, R.0; LA-UR-11-1554. (April 17, 2011).
<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-01554>

LANL 2011i: *Site Discharge Pollution Prevention Plan, Volume 5, Ancho/Chaquehui Watershed*. EP-DIR-PLAN-10007, R.0; LA-UR-11-1555. (March 28, 2011). <http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-01555>

LANL 2011j: *Submittal of Certification of Completion of Baseline Control Measures for 21 Site Monitoring Areas, Dated April 28, 2011*; ENV-RCRA-11-0083, LAUR-11-10500. April 28, 2011.

<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-10500>

LANL 2011k: *Submittal of Certification of Completion of Baseline Control Measures for 18 Site Monitoring Areas, Dated February 11, 2011*; ENV-RCRA-11-0091, LAUR-11-10593. May 16, 2011.

<http://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-11-10593>

NMED 2005: State of New Mexico, Compliance Order on Consent Proceeding Under the New Mexico Hazardous Waste Act § 74-4-10 and the New Mexico Solid Waste Act § 74-9-36(D) Issued to the United States Department of Energy, and the Regents of University of California for the Los Alamos National Laboratory, Los Alamos, New Mexico, March 1, 2005. (March 2005).

http://www.nmenv.state.nm.us/hwb/lanl/OrderConsent/03-01-05/Order_on_Consent_2-24-05.pdf

NMED 2006: New Mexico Environment Department - Hazardous Waste Bureau. Re: Certificates of Completion for Solid Waste Management Units 53-002(a) and 53-002(b), Technical Area 53, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-04-002. September 13, 2006.

NMED 2007: New Mexico Environment Department - Hazardous Waste Bureau. Re: Approval of the Investigation Report for Consolidated Unit 73-002-99 and Corrective Action of Solid Waste Management Unit 73-002, at Technical Area 73, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-07-016. August 13, 2007.

NMED 2008: New Mexico Environment Department - Hazardous Waste Bureau. Re: Approval of Los Alamos National Laboratory Proposal for No Further Action, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-02-019. January 23, 2008.

NMED 2010a: New Mexico Environment Department - Hazardous Waste Bureau. Re: Approval Request for Certificates of Completion for Two Solid Waste Management Units and Five Areas of Concern in the North Ancho Canyon Aggregate Area, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-10-022, April 6, 2010.

NMED 2010b: New Mexico Environment Department - Hazardous Waste Bureau. Re: Certificates of Completion, Upper Mortandad Canyon Aggregate Area, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-10-055, September 7, 2010.

NMED 2010c: New Mexico Environment Department - Hazardous Waste Bureau. Re: Certificates of Completion, Upper Los Alamos Canyon Aggregate Area, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-10-056, September 10, 2010.

NMED 2011a: New Mexico Environment Department - Hazardous Waste Bureau. Re: Certificate of Completion Pueblo Canyon Aggregate Area Area of Concern (AOC) 00-018(b), Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-10-096, January 14, 2011.

NMED 2011b: New Mexico Environment Department - Hazardous Waste Bureau. Re: Certificates of Completion, Upper Sandia Canyon Aggregate Area, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-10-099, February 18, 2011.

NMED 2011c: New Mexico Environment Department - Hazardous Waste Bureau. Re: Certificates of Completion, Material Disposal Area V, Technical Area 21, Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-11-030, June 3, 2011.

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NPDES Permit No. NM0030759
Individual Permit Annual Report
January 1 – December 31, 2011

APPENDIX A

Permitted Features, Site Monitoring Areas, and Sites

LA-UR-12-10341

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Table A-1. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Los Alamos/Pueblo	Rendija Canyon	R001	R-SMA-0.5	C-00-020
		R002	R-SMA-1	C-00-041
		R003	R-SMA-1.95	00-015
		R004	R-SMA-2.05	00-011(c)
		R005	R-SMA-2.3	00-011(e)
		R006	R-SMA-2.5	00-011(a)
Los Alamos/Pueblo	Bayo Canyon	B001	B-SMA-0.5	10-001(a)
				10-001(b)
				10-001(c)
				10-001(d)
				10-004(a)
				10-004(b)
				10-008
		10-009		
B002	B-SMA-1	00-011(d)		
Los Alamos/Pueblo	Pueblo Canyon	P001	ACID-SMA-1.05	00-030(g)
		P002	ACID-SMA-2	01-002(b)-00
				45-001
				45-002
				45-004
		P002A	ACID-SMA-2.01	00-030(f)
		P003	ACID-SMA-2.1	01-002(b)-00
		P004	P-SMA-0.3	00-018(b)
		P005	P-SMA-1	73-001(a)
				73-004(d)
		P006	P-SMA-2	73-002
73-006				
P007	P-SMA-2.15	31-001		
P008	P-SMA-2.2	00-019		
P009	P-SMA-3.05	00-018(a)		
Los Alamos/Pueblo	Los Alamos Canyon	L001	LA-SMA-0.85	03-055(c)
		L002	LA-SMA-0.9	00-017
				C-00-044
		L003	LA-SMA-1	00-017
L004	LA-SMA-1.1	C-00-044		
				43-001(b2)

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Los Alamos/Pueblo	Los Alamos Canyon	L005	LA-SMA-1.25	C-43-001
		L006	LA-SMA-2.1	01-001(f)
		L007	LA-SMA-2.3	01-001(b)
		L008	LA-SMA-3.1	01-001(e)
				01-003(a)
		L009	LA-SMA-3.9	01-001(g)
				01-006(a)
		L010	LA-SMA-4.1	01-003(b)
				01-006(b)
		L011	LA-SMA-4.2	01-001(c)
				01-006(c)
				01-006(d)
		L012	LA-SMA-5.01	01-001(d)
				01-006(h)
		L012A	LA-SMA-5.02	01-003(e)
		L013	LA-SMA-5.2	01-003(d)
		L014	LA-SMA-5.35	C-41-004
		L015	LA-SMA-5.31	41-002(c)
		L016	LA-SMA-5.33	32-004
		L017	LA-SMA-5.361	32-002(b)
		L017A	LA-SMA-5.362	32-003
		L018	LA-SMA-5.51	02-003(a)
				02-003(e)
				02-004(a)
02-005				
02-006(b)				
02-006(c)				
02-006(d)				
02-006(e)				
02-008(a)				
02-009(b)				
02-011(a)				
02-011(b)				
02-011(c)				
02-011(d)				

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Los Alamos/Pueblo	Los Alamos Canyon	L018A	LA-SMA-5.52	02-003(b)
				02-007
				02-008(c)
		L018B	LA-SMA-5.53	02-009(a)
		L018C	LA-SMA-5.54	02-009(c)
		L019	LA-SMA-5.91	21-009
				21-021
				21-023(c)
				21-027(d)
		L019A	LA-SMA-5.92	21-013(b)
				21-013(g)
				21-018(a)
				21-021
		L020	LA-SMA-6.25	21-021
				21-024(d)
				21-027(c)
		L021	LA-SMA-6.27	21-021
				21-027(c)
		L022	LA-SMA-6.3	21-006(b)
		L022A	LA-SMA-6.31	21-027(a)
		L023	LA-SMA-6.32	21-021
		L024	LA-SMA-6.34	21-021
				21-022(h)
		L025	LA-SMA-6.36	21-021
				21-024(a)
		L026	LA-SMA-6.38	21-021
				21-024(c)
		L027	LA-SMA-6.395	21-021
				21-024(j)
		L028	LA-SMA-6.5	21-021
21-024(i)				
L029	LA-SMA-9	26-001		
		26-002(a)		
		26-002(b)		
		26-003		
L030	LA-SMA-10.11	53-002(a)		
L030A	LA-SMA-10.12	53-008		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Los Alamos/Pueblo	DP Canyon	D001	DP-SMA-0.3	21-029
		D002	DP-SMA-0.4	21-021
		D003	DP-SMA-0.6	21-021
				21-024(l)
		D004	DP-SMA-1	21-011(k)
				21-021
		D005	DP-SMA-2	21-021
				21-024(h)
D006	DP-SMA-2.35	21-021		
		21-024(n)		
D007	DP-SMA-3	21-013(c)		
		21-021		
D008	DP-SMA-4	21-021		
Sandia	Sandia Canyon	S001	S-SMA-0.25	03-013(a)
				03-052(f)
		S002	S-SMA-1.1	03-029
		S003	S-SMA-2	03-012(b)
				03-045(b)
				03-045(c)
				03-056(c)
		S003A	S-SMA-2.01	03-052(b)
		S004	S-SMA-2.8	03-014(c2)
		S005	S-SMA-3.51	03-009(i)
		S005A	S-SMA-3.52	03-021
		S005B	S-SMA-3.53	03-014(b2)
		S006	S-SMA-3.6	60-007(b)
		S007	S-SMA-3.7	53-012(e)
		S008	S-SMA-3.71	53-001(a)
		S009	S-SMA-3.72	53-001(b)
S010	S-SMA-3.95	20-002(a)		
S011	S-SMA-4.1	53-014		
S012	S-SMA-4.5	20-002(d)		
S013	S-SMA-5	20-002(c)		
S014	S-SMA-5.2	20-003(c)		
S015	S-SMA-5.5	20-005		
S016	S-SMA-6	72-001		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Mortandad	Canada del Buey	C001	CDB-SMA-0.15	04-003(a)
				04-004
		C002	CDB-SMA-0.25	46-004(c2)
				46-004(e2)
		C003	CDB-SMA-0.55	46-004(g)
				46-004(m)
				46-004(s)
				46-006(f)
				46-003(c)
		C004	CDB-SMA-1	46-004(d2)
				46-004(f)
				46-004(l)
				46-004(w)
				46-008(g)
				46-009(a)
				C-46-001
				46-004(b)
		C005	CDB-SMA-1.15	46-004(y)
				46-004(z)
				46-006(d)
				46-004(a2)
		C006	CDB-SMA-1.35	46-004(u)
				46-004(v)
				46-004(x)
				46-006(d)
				46-008(f)
		C007	CDB-SMA-1.54	46-004(h)
46-004(q)				
46-006(d)				
C008	CDB-SMA-1.55	46-003(e)		
C009	CDB-SMA-1.65	46-003(b)		
C010	CDB-SMA-4	54-017		
		54-018		
		54-020		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Mortandad	Mortandad Canyon	M001	M-SMA-1	03-050(a)
				03-054(e)
		M002	M-SMA-1.2	03-049(a)
		M002A	M-SMA-1.21	03-049(e)
		M002B	M-SMA-1.22	03-045(h)
		M003	M-SMA-3	48-001
				48-005
				48-007(c)
		M004	M-SMA-3.1	48-001
				48-007(b)
		M005	M-SMA-3.5	48-001
				48-003
		M006	M-SMA-4	48-001
				48-005
				48-007(a)
				48-007(d)
				48-010
		M007	M-SMA-5	42-001(a)
				42-001(b)
				42-001(c)
				42-002(a)
42-002(b)				
M008	M-SMA-6	35-016(h)		
M009	M-SMA-7	35-016(g)		
M010	M-SMA-7.9	50-006(d)		
M011	M-SMA-9.1	35-016(f)		
M012	M-SMA-10	35-008		
		35-014(e)		
M012A	M-SMA-10.01	35-016(e)		
M013	M-SMA-10.3	35-014(e2)		
		35-016(i)		
M014	M-SMA-11.1	35-016(o)		
M015	M-SMA-12	35-016(p)		
M016	M-SMA-12.5	05-005(b)		
		05-006(c)		
M017	M-SMA-12.6	05-004		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Mortandad	Mortandad Canyon	M018	M-SMA-12.7	05-002
				05-005(a)
				05-006(b)
				05-006(e)
		M019	M-SMA-12.8	05-001(a)
				05-002
		M020	M-SMA-12.9	05-001(b)
		05-002		
M021	M-SMA-12.92	00-001		
M022	M-SMA-13	05-001(c)		
Mortandad	Ten-Site Canyon	T001	Pratt-SMA-1.05	35-003(h)
				35-003(p)
				35-003(r)
				35-004(h)
				35-009(d)
				35-016(k)
				35-016(l)
				35-016(m)
		T002	T-SMA-1	50-006(a)
				50-009
		T003	T-SMA-2.5	35-014(g3)
		T004	T-SMA-2.85	35-014(g)
				35-016(n)
		T005	T-SMA-3	35-016(b)
		T006	T-SMA-4	35-004(a)
				35-009(a)
				35-016(c)
				35-016(d)
		T007	T-SMA-5	35-004(a)
				35-009(a)
35-016(a)				
35-016(q)				
T008	T-SMA-6.8	35-010(e)		
T009	T-SMA-7	04-003(b)		
T010	T-SMA-7.1	04-001		
		04-002		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Pajarito	Twomile Canyon	E001	2M-SMA-1	03-010(a)
		E002	2M-SMA-1.42	06-001(a)
		E003	2M-SMA-1.43	22-014(a)
				22-015(a)
		E004	2M-SMA-1.44	06-001(b)
		E005	2M-SMA-1.45	06-006
		E006	2M-SMA-1.5	22-014(b)
		E007	2M-SMA-1.65	40-005
		E008	2M-SMA-1.67	06-003(h)
		E009	2M-SMA-1.7	03-055(a)
		E010	2M-SMA-1.8	03-001(k)
		E011	2M-SMA-1.9	03-003(a)
		E012	2M-SMA-2	03-050(d)
				03-054(b)
		E013	2M-SMA-2.2	03-003(k)
E014	2M-SMA-3	07-001(a)		
		07-001(b)		
		07-001(c)		
		07-001(d)		
E015	2M-SMA-2.5	40-001(c)		
Pajarito	Threemile Canyon	H001	3M-SMA-0.2	15-010(b)
		H002	3M-SMA-0.4	15-006(b)
		H003	3M-SMA-0.5	15-006(c)
				15-009(c)
		H004	3M-SMA-0.6	15-008(b)
		H005	3M-SMA-2.6	36-008
				C-36-003
		H006	3M-SMA-4	18-002(b)
18-003(c)				
18-010(f)				
Pajarito	Pajarito Canyon	J001	PJ-SMA-1.05	09-013
		J002	PJ-SMA-2	09-009
		J003	PJ-SMA-3.05	09-004(o)
		J004	PJ-SMA-4.05	09-004(g)
		J005	PJ-SMA-5	22-015(c)
		J006	PJ-SMA-5.1	22-016
		J007	PJ-SMA-6	40-010
		J008	PJ-SMA-7	40-006(c)

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.	
Pajarito	Pajarito Canyon	J009	PJ-SMA-8	40-006(b)	
		J010	PJ-SMA-9	40-009	
		J012	PJ-SMA-10	40-006(a)	
		J013	PJ-SMA-11	40-003(a)	
		J014	PJ-SMA-11.1	40-003(b)	
		J015	PJ-SMA-13	18-002(a)	
		J016	PJ-SMA-13.7	18-010(b)	
		J017	PJ-SMA-14	54-004	
		J018	PJ-SMA-14.2	18-012(b)	
		J019	PJ-SMA-14.3	18-003(e)	
		J020	PJ-SMA-14.4	18-010(d)	
		J021	PJ-SMA-14.6	18-010(e)	
		J022	PJ-SMA-14.8	18-012(a)	
		J023	PJ-SMA-16	27-002	
		J024	PJ-SMA-17	54-018	
		J025	PJ-SMA-19		54-013(b)
					54-017
					54-020
		J026	PJ-SMA-18		54-014(d)
					54-017
		J027	PJ-SMA-20	54-017	
J028	STRM-SMA-1.05	08-009(f)			
J029	STRM-SMA-1.5	08-009(d)			
J030	STRM-SMA-4.2	09-008(b)			
J031	STRM-SMA-5.05	09-013			
Water/Canon de Valle	Canon de Valle	V001	CDV-SMA-1.2	16-017(b)-99	
				16-029(k)	
		V002	CDV-SMA-1.3	16-017(a)-99	
				16-026(m)	
		V003	CDV-SMA-1.4	16-020	
				16-026(l)	
				16-028(c)	
		16-030(c)			
V004	CDV-SMA-1.45	16-026(i)			
V005	CDV-SMA-1.7	16-019			
V006	CDV-SMA-2	16-021(c)			

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Water/Canon de Valle	Canon de Valle	V007	CDV-SMA-2.3	13-001
				13-002
				16-003(n)
				16-003(o)
				16-029(h)
				16-031(h)
		V008	CDV-SMA-2.41	16-018
		V008A	CDV-SMA-2.42	16-010(b)
		V009	CDV-SMA-2.5	16-010(c)
				16-010(d)
				16-028(a)
		V009A	CDV-SMA-2.51	16-010(i)
		V010	CDV-SMA-3	14-009
		V011	CDV-SMA-4	14-010
		V012	CDV-SMA-6.01	14-001(g)
				14-006
V012A	CDV-SMA-6.02	14-002(d)		
		14-002(e)		
V013	CDV-SMA-7	15-008(d)		
V014	CDV-SMA-8	15-011(c)		
V015	CDV-SMA-8.5	15-014(a)		
V016	CDV-SMA-9.05	15-007(b)		
Water/Canon de Valle	Fence Canyon	F001	F-SMA-2	36-004(c)
Water/Canon de Valle	Potrillo Canyon	I001	PT-SMA-0.5	15-009(e)
				C-15-004
		I002	PT-SMA-1	15-004(f)
				15-008(a)
		I003	PT-SMA-1.7	15-006(a)
		I004	PT-SMA-2	15-008(f)
				36-003(b)
				36-004(e)
		I004A	PT-SMA-2.01	C-36-001
				C-36-006(e)
I005	PT-SMA-3	36-004(a)		
		36-006		
I007	PT-SMA-4.2	36-004(d)		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Water/Canon de Valle	Water Canyon	W001	W-SMA-1	16-017(j)-99
				16-026(c2)
				16-026(v)
		W002	W-SMA-1.5	16-026(b2)
				16-028(d)
		W003	W-SMA-2.05	16-028(e)
		W004	W-SMA-3.5	16-026(y)
		W005	W-SMA-4.1	16-003(a)
		W006	W-SMA-5	16-001(e)
				16-003(f)
				16-026(b)
				16-026(c)
				16-026(d)
		W007	W-SMA-6	11-001(c)
		W008	W-SMA-7	16-026(h2)
		W009	W-SMA-7.8	16-031(a)
		W010	W-SMA-7.9	16-006(c)
		W011	W-SMA-8	16-016(g)
				16-028(b)
		W012	W-SMA-8.7	13-001
13-002				
16-004(a)				
16-026(j2)				
16-029(h)				
W012A	W-SMA-8.71	16-035		
W013	W-SMA-9.05	16-004(c)		
W014	W-SMA-9.5	16-030(g)		
W015	W-SMA-9.7	11-012(c)		
		11-011(a)		
W016	W-SMA-9.8	11-011(b)		
		11-005(c)		
W017	W-SMA-9.9	11-006(b)		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Water/Canon de Valle	Water Canyon	W018	W-SMA-10	11-002
				11-003(b)
				11-005(a)
				11-005(b)
				11-006(c)
				11-006(d)
				11-011(d)
		W019	W-SMA-11.7	49-008(c)
		W020	W-SMA-12.05	49-001(g)
		W021	W-SMA-14.1	15-004(h)
15-014(l)				
W022	W-SMA-15.1	49-005(a)		
Ancho	Ancho Canyon	A001	A-SMA-1.1	39-004(a)
				39-004(d)
		A002	A-SMA-2	39-004(b)
				39-004(e)
		A003	A-SMA-2.5	39-010
		A004	A-SMA-2.7	39-002(c)
				39-008
		A005	A-SMA-2.8	39-001(b)
		A006	A-SMA-3	39-002(b)
				39-004(c)
		A007	A-SMA-3.5	39-006(a)
A008	A-SMA-4	33-010(d)		
A009	A-SMA-6	33-004(k)		
		33-007(a)		
		33-010(a)		

Table A-1, cont'd. Permitted Features, Site Monitoring Areas, and Sites

Watershed	Canyon	Permitted Feature	Site Monitoring Area	Site No.
Chaquehui	Chaquehui Canyon	Q001	CHQ-SMA-0.5	33-004(g)
				33-007(c)
				33-009
		Q002	CHQ-SMA-1.01	33-002(d)
		Q002A	CHQ-SMA-1.02	33-004(h)
				33-008(c)
				33-011(d)
				33-015
		Q002B	CHQ-SMA-1.03	33-008(c)
				33-012(a)
				33-017
				C-33-001
				C-33-003
		Q003	CHQ-SMA-2	33-004(d)
				33-007(c)
				C-33-003
		Q004	CHQ-SMA-3.05	33-010(f)
		Q005	CHQ-SMA-4	33-011(e)
		Q006	CHQ-SMA-4.1	33-016
		Q007	CHQ-SMA-4.5	33-011(b)
Q008	CHQ-SMA-5.05	33-007(b)		
Q009	CHQ-SMA-6	33-004(j)		
		33-006(a)		
		33-007(b)		
		33-010(c)		
		33-010(g)		
		33-010(h)		
33-014				
Q010	CHQ-SMA-7.1	33-010(g)		

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NPDES Permit No. NM0030759
Individual Permit Annual Report
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APPENDIX B

Site-Specific Compliance Status

LA-UR-12-10341

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
R001	R-SMA-0.5	C-00-020	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
R002	R-SMA-1	C-00-041	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12	19-Aug-11	EH			31-Oct-15	
R003	R-SMA-1.95	00-015	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
R004	R-SMA-2.05	00-011(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
R005	R-SMA-2.3	00-011(e)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
R006	R-SMA-2.5	00-011(a)	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
B001	B-SMA-0.5	10-001(a)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-001(b)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-001(c)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-001(d)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-004(a)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-004(b)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-008	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		10-009	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
B002	B-SMA-1	00-011(d)	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
P001	ACID-SMA-1.05	00-030(g)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
P002	ACID-SMA-2	01-002(b)-00	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		45-001	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		45-002	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		45-004	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
P002A	ACID-SMA-2.01	00-030(f)	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
P003	ACID-SMA-2.1	01-002(b)-00	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
P004	P-SMA-0.3	00-018(b)	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
P005	P-SMA-1	73-001(a)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
		73-004(d)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	

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 *EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
P006	P-SMA-2	73-002	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		73-006	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
P007	P-SMA-2.15	31-001	M	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
P008	P-SMA-2.2	00-019	H	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-13	
P009	P-SMA-3.05	00-018(a)	H	30-Apr-11	6-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
L001	LA-SMA-0.85	03-055(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	14-Aug-11	EH			31-Oct-15	
L002	LA-SMA-0.9	00-017	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		C-00-044	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L003	LA-SMA-1	00-017	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12	19-Aug-11	EH			31-Oct-15	
		C-00-044	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12	19-Aug-11	EH			31-Oct-15	
L004	LA-SMA-1.1	43-001(b2)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12	19-Aug-11	COC	n/a	n/a	31-Oct-15	
L005	LA-SMA-1.25	C-43-001	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	28-Aug-11	EH			31-Oct-15	
L006	LA-SMA-2.1	01-001(f)	H	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-13	
L007	LA-SMA-2.3	01-001(b)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L008	LA-SMA-3.1	01-001(e)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
		01-003(a)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
L009	LA-SMA-3.9	01-001(g)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		01-006(a)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L010	LA-SMA-4.1	01-003(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	4-Sept-11	EH			31-Oct-15	
		01-006(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	4-Sept-11	EH			31-Oct-15	
L011	LA-SMA-4.2	01-001(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		01-006(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		01-006(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
L012	LA-SMA-5.01	01-001(d)	H	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		01-006(h)	H	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
L012A	LA-SMA-5.02	01-003(e)	H	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12	19-Aug-11	COC	n/a	n/a	31-Oct-13	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
L013	LA-SMA-5.2	01-003(d)	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
L014	LA-SMA-5.35	C-41-004	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
L015	LA-SMA-5.31	41-002(c)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L016	LA-SMA-5.33	32-004	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L017	LA-SMA-5.361	32-002(b)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
L017A	LA-SMA-5.362	32-003	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
L018	LA-SMA-5.51	02-003(a)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-003(e)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-004(a)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-005	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-006(b)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-006(c)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-006(d)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-006(e)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-008(a)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-009(b)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-011(a)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-011(b)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-011(c)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
02-011(d)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13			
L018A	LA-SMA-5.52	02-003(b)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-007	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
		02-008(c)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
L018B	LA-SMA-5.53	02-009(a)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	
L018C	LA-SMA-5.54	02-009(c)	H	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-13	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
L019	LA-SMA-5.91	21-009	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
		21-021	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
		21-023(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
		21-027(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
L019A	LA-SMA-5.92	21-013(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		21-013(g)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		21-018(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		21-021	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
L020	LA-SMA-6.25	21-021	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		21-024(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		21-027(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
L021	LA-SMA-6.27	21-021	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		21-027(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
L022	LA-SMA-6.3	21-006(b)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L022A	LA-SMA-6.31	21-027(a)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L023	LA-SMA-6.32	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L024	LA-SMA-6.34	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		21-022(h)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L025	LA-SMA-6.36	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		21-024(a)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L026	LA-SMA-6.38	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		21-024(c)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L027	LA-SMA-6.395	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		21-024(j)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
L028	LA-SMA-6.5	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		21-024(i)	H	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
L029	LA-SMA-9	26-001	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
		26-002(a)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
		26-002(b)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
		26-003	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
L030	LA-SMA-10.11	53-002(a)	M	30-Apr-11	8-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
L030A	LA-SMA-10.12	53-008	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12				31-Oct-15		
D001	DP-SMA-0.3	21-029	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
D002	DP-SMA-0.4	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
D003	DP-SMA-0.6	21-021	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
		21-024(l)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12				31-Oct-15		
D004	DP-SMA-1	21-011(k)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
		21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
D005	DP-SMA-2	21-021	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11				31-Oct-15		
		21-024(h)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11				31-Oct-15		
D006	DP-SMA-2.35	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
		21-024(n)	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
D007	DP-SMA-3	21-013(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		
		21-021	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		
D008	DP-SMA-4	21-021	M	30-Apr-11	7-Dec-10	30-May-11	16-Dec-10	30-Apr-12				31-Oct-15		
S001	S-SMA-0.25	03-013(a)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	15-Aug-11	EH		31-Oct-13		
		03-052(f)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	15-Aug-11	EH		31-Oct-13		
S002	S-SMA-1.1	03-029	H	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12	4-Sep-11	EH		31-Oct-13		
S003	S-SMA-2	03-012(b)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	13-Aug-11	EH		31-Oct-13		
		03-045(b)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	13-Aug-11	EH		31-Oct-13		
		03-045(c)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	13-Aug-11	EH		31-Oct-13		
		03-056(c)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	13-Aug-11	EH		31-Oct-13		

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
S003A	S-SMA-2.01	03-052(b)	H	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12	7-Sep-11	EH			31-Oct-13	
S004	S-SMA-2.8	03-014(c2)	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
S005	S-SMA-3.51	03-009(i)	H	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
S005A	S-SMA-3.52	03-021	H	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
S005B	S-SMA-3.53	03-014(b2)	H	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12	4-Aug-11	EH			31-Oct-13	
S006	S-SMA-3.6	60-007(b)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	13-Aug-11	EH			31-Oct-13	
S007	S-SMA-3.7	53-012(e)	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
S008	S-SMA-3.71	53-001(a)	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
S009	S-SMA-3.72	53-001(b)	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
S010	S-SMA-3.95	20-002(a)	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
S011	S-SMA-4.1	53-014	H	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12	1-Sep-11	EH			31-Oct-13	
S012	S-SMA-4.5	20-002(d)	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
S013	S-SMA-5	20-002(c)	H	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-13	
S014	S-SMA-5.2	20-003(c)	M	30-Apr-11	9-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
S015	S-SMA-5.5	20-005	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
S016	S-SMA-6	72-001	H	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12	19-Aug-11	EH			31-Oct-13	
C001	CDB-SMA-0.15	04-003(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		04-004	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
C002	CDB-SMA-0.25	46-004(c2)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	1-Sep-11	EH			31-Oct-15	
C003	CDB-SMA-0.55	46-004(e2)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(g)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(m)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(s)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-006(f)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.
 *EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
C004	CDB-SMA-1	46-003(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(d2)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(f)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(t)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-004(w)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-008(g)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		46-009(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		C-46-001	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
C005	CDB-SMA-1.15	46-004(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-004(y)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-004(z)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-006(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
C006	CDB-SMA-1.35	46-004(a2)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-004(u)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-004(v)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-004(x)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-006(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-008(f)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
C007	CDB-SMA-1.54	46-004(h)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-004(q)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		46-006(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
C008	CDB-SMA-1.55	46-003(e)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
C009	CDB-SMA-1.65	46-003(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
C010	CDB-SMA-4	54-017	H	30-Apr-11	16-Nov-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		54-018	H	30-Apr-11	16-Nov-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		54-020	H	30-Apr-11	16-Nov-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
M001	M-SMA-1	03-050(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
		03-054(e)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	7-Sep-11	EH			31-Oct-15	
M002	M-SMA-1.2	03-049(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M002A	M-SMA-1.21	03-049(e)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M002B	M-SMA-1.22	03-045(h)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
M003	M-SMA-3	48-001	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		48-005	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		48-007(c)	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
M004	M-SMA-3.1	48-001	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		48-007(b)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M005	M-SMA-3.5	48-001	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		48-003	H	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-13	
M006	M-SMA-4	48-001	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		48-005	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		48-007(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		48-007(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
		48-010	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	19-Aug-11	EH			31-Oct-15	
M007	M-SMA-5	42-001(a)	M	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		42-001(b)	M	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		42-001(c)	M	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		42-002(a)	M	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
		42-002(b)	M	30-Apr-11	28-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
M008	M-SMA-6	35-016(h)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M009	M-SMA-7	35-016(g)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M010	M-SMA-7.9	50-006(d)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
M011	M-SMA-9.1	35-016(f)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
M012	M-SMA-10	35-008	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-014(e)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M012A	M-SMA-10.01	35-016(e)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12	15-Sep-11	EH			31-Oct-15	
M013	M-SMA-10.3	35-014(e2)	H	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12	19-Aug-11	EH			31-Oct-13	
		35-016(i)	H	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12	19-Aug-11	EH			31-Oct-13	
M014	M-SMA-11.1	35-016(o)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M015	M-SMA-12	35-016(p)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
M016	M-SMA-12.5	05-005(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		05-006(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
M017	M-SMA-12.6	05-004	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12					31-Oct-15	
M018	M-SMA-12.7	05-002	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		05-005(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		05-006(b)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		05-006(e)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M019	M-SMA-12.8	05-001(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		05-002	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M020	M-SMA-12.9	05-001(b)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		05-002	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
M021	M-SMA-12.92	00-001	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
M022	M-SMA-13	05-001(c)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T001	Pratt-SMA-1.05	35-003(h)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-003(p)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-003(r)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-004(h)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-009(d)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-016(k)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-016(l)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
		35-016(m)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
T002	T-SMA-1	50-006(a)	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12	15-Aug-11	EH			31-Oct-13	
		50-009	H	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12	15-Aug-11	EH			31-Oct-13	
T003	T-SMA-2.5	35-014(g3)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T004	T-SMA-2.85	35-014(g)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-016(n)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T005	T-SMA-3	35-016(b)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T006	T-SMA-4	35-004(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-009(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-016(c)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-016(d)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T007	T-SMA-5	35-004(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-009(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-016(a)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		35-016(q)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T008	T-SMA-6.8	35-010(e)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T009	T-SMA-7	04-003(b)	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
T010	T-SMA-7.1	04-001	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
		04-002	M	30-Apr-11	13-Dec-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-15	
E001	2M-SMA-1	03-010(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	20-Aug-11	EH			31-Oct-15	
E002	2M-SMA-1.42	06-001(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12	15-Sep-11	EH			31-Oct-15	
E003	2M-SMA-1.43	22-014(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		22-015(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
E004	2M-SMA-1.44	06-001(b)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
E005	2M-SMA-1.45	06-006	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
E006	2M-SMA-1.5	22-014(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
E007	2M-SMA-1.65	40-005	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12	21-Aug-11	EH			31-Oct-15	
E008	2M-SMA-1.67	06-003(h)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	

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Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
E009	2M-SMA-1.7	03-055(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12	9-Sep-11	EH			31-Oct-15	
E010	2M-SMA-1.8	03-001(k)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12	9-Sep-11	EH			31-Oct-15	
E011	2M-SMA-1.9	03-003(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
E012	2M-SMA-2	03-050(d)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12	4-Sep-11	EH			31-Oct-15	
		03-054(b)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12	4-Sep-11	EH			31-Oct-15	
E013	2M-SMA-2.2	03-003(k)	M	1-Nov-10	1-Nov-10	1-Dec-10	23-Nov-11	31-Oct-11	4-Sep-11	EH			31-Oct-15	
E014	2M-SMA-3	07-001(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		07-001(b)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		07-001(c)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		07-001(d)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
E015	2M-SMA-2.5	40-001(c)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
H001	3M-SMA-0.2	15-010(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
H002	3M-SMA-0.4	15-006(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
H003	3M-SMA-0.5	15-006(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		15-009(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
H004	3M-SMA-0.6	15-008(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
H005	3M-SMA-2.6	36-008	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
		C-36-003	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
H006	3M-SMA-4	18-002(b)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		18-003(c)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		18-010(f)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
J001	PJ-SMA-1.05	09-013	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J002	PJ-SMA-2	09-009	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J003	PJ-SMA-3.05	09-004(o)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
J004	PJ-SMA-4.05	09-004(g)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J005	PJ-SMA-5	22-015(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J006	PJ-SMA-5.1	22-016	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12	7-Sep-11	EH			31-Oct-15	
J007	PJ-SMA-6	40-010	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.

*EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
J008	PJ-SMA-7	40-006(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J009	PJ-SMA-8	40-006(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J010	PJ-SMA-9	40-009	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J012	PJ-SMA-10	40-006(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
J013	PJ-SMA-11	40-003(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
J014	PJ-SMA-11.1	40-003(b)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
J015	PJ-SMA-13	18-002(a)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
J016	PJ-SMA-13.7	18-010(b)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
J017	PJ-SMA-14	54-004	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
J018	PJ-SMA-14.2	18-012(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J019	PJ-SMA-14.3	18-003(e)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J020	PJ-SMA-14.4	18-010(d)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
J021	PJ-SMA-14.6	18-010(e)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J022	PJ-SMA-14.8	18-012(a)	M	30-Apr-11	13-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
J023	PJ-SMA-16	27-002	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J024	PJ-SMA-17	54-018	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
J025	PJ-SMA-19	54-013(b)	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
		54-017	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
		54-020	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
J026	PJ-SMA-18	54-014(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		54-017	H	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-13	
J027	PJ-SMA-20	54-017	H	30-Apr-11	16-Nov-10	30-May-11	16-Dec-10	30-Apr-12					31-Oct-13	
J028	STRM-SMA-1.05	08-009(f)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	26-Aug-11	EH			31-Oct-15	
J029	STRM-SMA-1.5	08-009(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
J030	STRM-SMA-4.2	09-008(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	9-Sep-11	EH			31-Oct-15	
J031	STRM-SMA-5.05	09-013	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	21-Aug-11	EH			31-Oct-15	

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.
 *EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
V001	CDV-SMA-1.2	16-017(b)-99	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-029(k)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V002	CDV-SMA-1.3	16-017(a)-99	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-026(m)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V003	CDV-SMA-1.4	16-020	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12	21-Aug-11	EH		31-Oct-15		
		16-026(l)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12	21-Aug-11	EH		31-Oct-15		
		16-028(c)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12	21-Aug-11	EH		31-Oct-15		
		16-030(c)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12	21-Aug-11	EH		31-Oct-15		
V004	CDV-SMA-1.45	16-026(i)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V005	CDV-SMA-1.7	16-019	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V006	CDV-SMA-2	16-021(c)	M	30-Apr-11	26-Apr-11	30-May-11	16-May-11	30-Apr-12				31-Oct-15		
V007	CDV-SMA-2.3	13-001	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		13-002	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-003(n)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-003(o)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-029(h)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-031(h)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V008	CDV-SMA-2.41	16-018	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12	21-Aug-11	EH		31-Oct-15		
V008A	CDV-SMA-2.42	16-010(b)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V009	CDV-SMA-2.5	16-010(c)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-010(d)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		16-028(a)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V009A	CDV-SMA-2.51	16-010(i)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
V010	CDV-SMA-3	14-009	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		

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*EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
V011	CDV-SMA-4	14-010	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
V012	CDV-SMA-6.01	14-001(g)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		14-006	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
V012A	CDV-SMA-6.02	14-002(d)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12	1-Sep-11	EH			31-Oct-15	
		14-002(e)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12	1-Sep-11	EH			31-Oct-15	
V013	CDV-SMA-7	15-008(d)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
V014	CDV-SMA-8	15-011(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
V015	CDV-SMA-8.5	15-014(a)	M	30-Apr-11	15-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
V016	CDV-SMA-9.05	15-007(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
F001	F-SMA-2	36-004(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
I001	PT-SMA-0.5	15-009(e)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
		C-15-004	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
I002	PT-SMA-1	15-004(f)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
		15-008(a)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
I003	PT-SMA-1.7	15-006(a)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
I004	PT-SMA-2	15-008(f)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
		36-003(b)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
		36-004(e)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12					31-Oct-15	
I004A	PT-SMA-2.01	C-36-001	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12	18-Aug-11	EH			31-Oct-15	
		C-36-006(e)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12	18-Aug-11	EH			31-Oct-15	
I005	PT-SMA-3	36-004(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
		36-006	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
I007	PT-SMA-4.2	36-004(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	
W001	W-SMA-1	16-017(j)-99	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	9-Sep-11	EH			31-Oct-15	
		16-026(c2)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	9-Sep-11	EH			31-Oct-15	
		16-026(v)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11	9-Sep-11	EH			31-Oct-15	

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 *EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
W002	W-SMA-1.5	16-026(b2)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12	1-Sep-11	EH			31-Oct-15	
		16-028(d)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12	1-Sep-11	EH			31-Oct-15	
W003	W-SMA-2.05	16-028(e)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W004	W-SMA-3.5	16-026(y)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W005	W-SMA-4.1	16-003(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W006	W-SMA-5	16-001(e)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-003(f)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-026(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-026(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-026(d)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-026(e)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W007	W-SMA-6	11-001(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W008	W-SMA-7	16-026(h2)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W009	W-SMA-7.8	16-031(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W010	W-SMA-7.9	16-006(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W011	W-SMA-8	16-016(g)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-028(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W012	W-SMA-8.7	13-001	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		13-002	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-004(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-026(j2)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-029(h)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
		16-035	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W012A	W-SMA-8.71	16-004(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W013	W-SMA-9.05	16-030(g)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12					31-Oct-15	
W014	W-SMA-9.5	11-012(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.

*EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
W015	W-SMA-9.7	11-011(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		11-011(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
W016	W-SMA-9.8	11-005(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
W017	W-SMA-9.9	11-006(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
W018	W-SMA-10	11-002	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		11-003(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		11-005(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		11-005(b)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		11-006(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
		11-006(d)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
W019	W-SMA-11.7	49-008(c)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
W020	W-SMA-12.05	49-001(g)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
W021	W-SMA-14.1	15-004(h)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12	18-Aug-11	EH		31-Oct-15		
		15-014(l)	M	30-Apr-11	29-Mar-11	30-May-11	28-Apr-11	30-Apr-12	18-Aug-11	EH		31-Oct-15		
W022	W-SMA-15.1	49-005(a)	M	30-Apr-11	22-Dec-10	30-May-11	12-Jan-11	30-Apr-12				31-Oct-15		
A001	A-SMA-1.1	39-004(a)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11				31-Oct-15		
		39-004(d)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11				31-Oct-15		
A002	A-SMA-2	39-004(b)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		
		39-004(e)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		
A003	A-SMA-2.5	39-010	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		
A004	A-SMA-2.7	39-002(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12	4-Sep-11	EH		31-Oct-15		
		39-008	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12	4-Sep-11	EH		31-Oct-15		
A005	A-SMA-2.8	39-001(b)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12				31-Oct-15		
A006	A-SMA-3	39-002(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11				31-Oct-15		
		39-004(c)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11				31-Oct-15		

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.

*EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
A007	A-SMA-3.5	39-006(a)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
A008	A-SMA-4	33-010(d)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
A009	A-SMA-6	33-004(k)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-007(a)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-010(a)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q001	CHQ-SMA-0.5	33-004(g)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-007(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-009	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q002	CHQ-SMA-1.01	33-002(d)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q002A	CHQ-SMA-1.02	33-004(h)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-008(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-011(d)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-015	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q002B	CHQ-SMA-1.03	33-008(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-012(a)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-017	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		C-33-001	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		C-33-003	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q003	CHQ-SMA-2	33-004(d)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-007(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		C-33-003	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q004	CHQ-SMA-3.05	33-010(f)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q005	CHQ-SMA-4	33-011(e)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q006	CHQ-SMA-4.1	33-016	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q007	CHQ-SMA-4.5	33-011(b)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q008	CHQ-SMA-5.05	33-007(b)	M	1-Nov-10	1-Nov-10	1-Dec-10	1-Dec-10	31-Oct-11					31-Oct-15	

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.
 *EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

Table B-1. Site-Specific Compliance Status

Permitted Feature	Site Monitoring Area	Site No. & Priority (M=Moderate; H=High)		Baseline Control Measures						Corrective Action Control Measures			Certification of Completion of Corrective Action	
				Install		Certify		Monitoring		Type*	Install	Certify	Target	Actual
				Target	Actual	Target	Actual	Target	Actual					
Q009	CHQ-SMA-6	33-004(j)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-006(a)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-007(b)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-010(c)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-010(g)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-010(h)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
		33-014	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	
Q010	CHQ-SMA-7.1	33-010(g)	M	30-Apr-11	12-Jan-11	30-May-11	11-Feb-11	30-Apr-12					31-Oct-15	

Bold text indicates High Priority Site. Green shading indicates compliance phase completed by target date.

*EH = Enhanced Control, COC = Certificate of Completion, TR = Total Retention, NE = No Exposure.

NPDES Permit No. NM0030759
Individual Permit Annual Report
January 1 – December 31, 2011

APPENDIX C

Analytical Monitoring Results

LA-UR-12-10341

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Part I. Overview

Permit Section H.2.(c) requires that the Annual Report provide the monitoring results available during the reporting period. The validated analytical results for baseline monitoring samples collected during 2010 are presented in Appendix C, Part I. When available, the validated analytical results for corrective action monitoring samples will be presented in Appendix C, Part II. No corrective action monitoring samples were collected during the 2010 annual reporting period; therefore, there are no analytical monitoring data to report.

The results for metals, general inorganics, radioactivity, total PCBs, and other detected organics are provided in separate tables in Appendix C, Part II. All analytical results for the Individual Permit storm water monitoring samples are available electronically in the “RACER at LANL” database at <http://racernm.com/>.

Sampler Operations

Baseline confirmation monitoring was initiated at 250 SMAs by installation of samplers over a three month period beginning in May 2011. Sampler equipment is identified by unique Station ID numbers. All samplers had been deactivated as of December 31, 2011. Samplers at some SMAs were deactivated after two samples had been collected. The samplers at the remaining SMAs were deactivated during December due to the arrival of winter snow storms. The Permit does not allow the collection of snowmelt runoff samples for confirmation purposes.

As summarized in Section 2.7 of this annual Report, samplers were relocated at six SMAs during the baseline monitoring period: CHQ-SMA-4.1, M-SMA-6, P-SMA-1, PJ-SMA-3.05, PJ-SMA-7, and PJ-SMA-8. No samples had been collected at the previous sampler locations prior to relocation.

Sample Analysis

Part III, Section C.5 (a) of the Permit states that monitoring must be conducted according to test procedures approved at 40 CFR Part 136, unless other test procedures have been specified in the permit or approved by the Regional Administrator. The following considerations apply in sample planning and preparing the monitoring data set for reporting.

- To determine the concentration of the sum of the radium isotopes Ra-226 + Ra-228, the analytical laboratory measures each isotope separately, and then sums the individual results. The result returned by the analytical laboratory is the concentration of Ra-226 + Ra-228, expressed as picocuries per liter (pCi/L).
- The State of New Mexico Standards for Interstate and Intrastate Surface Water (NMAC 20.6.4, effective December, 2010) contain numeric criteria for the protection of surface waters that

have a designated use of Livestock Watering, including a standard for “Adjusted Gross Alpha”, where

“Adjusted gross alpha” means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample, including radium-226, but excluding radon-222 and uranium. Also excluded are source, special nuclear and by-product material as defined by the Atomic Energy Act of 1954. (NMAC 20.6.4.7.B)

- The analytical laboratory measures and reports the Gross Alpha radioactivity. The Permittees have elected to not adjust the reported gross alpha result for the 2011 baseline confirmation monitoring results.
- The results reported for Total PCBs are calculated from the sum of detected PCB congeners measured using EPA Method 1668. Supporting documentation for the calculation of the Total PCBs result is provided in Attachment 2 to this Annual Report as required by Appendix C of the Permit.

Data Analysis

Upon receipt from the analytical laboratory, storm water analytical results undergo verification and validation by LANL. Data verification and validation procedures are used to determine whether the analytical data results received from the analytical laboratory were generated according to contractual specifications and contain the information necessary to determine if the data are sufficient for decision-making. Data verification is the process of evaluating the completeness, correctness, and conformance / compliance of a specific data set against the method, procedural, or contractual requirements. Analytical data validation procedures are concerned with determining whether individual results should be qualified because of the potential impact of flaws in the data quality on the decision-making process.

Data qualifiers (letter codes attached to data results) are used in the data validation process to designate potential deficiencies associated with individual sample results. The data validation qualifier flags used for reporting the storm water data are defined in Table C-1. Analytical results that have been qualified as rejected (“R” flag) due to serious noncompliance with quality control acceptance criteria are not be used for confirmation purposes.

Table C-1. Data Qualifier Definitions

Laboratory Data Qualifier Definitions	
Code	Description
*	(Inorganic) - Duplicate Analysis (relative percent difference) not within control limits.
B	(Inorganic) - Reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). (Organic) - Analyte present in the blank and the sample.
D	The result for this analyte was reported from a dilution.
E	(Inorganic) - The serial dilution range was exceeded. (Organic) - Analyte exceeded the calibration concentration range.
H	The required extraction or analysis holding time for this result was exceeded.
J	(Inorganic) - The associated numerical value is an estimated quantity. (Organic) - The associated numerical value is an estimated quantity.
N	(Inorganic) - Spiked sample recovery not within control limits.
P	(Organic) Percent difference between the results on the two columns during the analysis differed by more than 40%.
U	The material was analyzed for, but was not detected above the level of the associated numeric value.
UJ	Material was analyzed for, but not detected. (Inorganic)- Value is an estimate. (Organics) - Quantitation limit is an estimate.
UN	(Inorganic)- Compound was analyzed for, but not detected and spiked sample recovery not within control limits.
X	Lab suspects result is a non-detect despite positive quantification results.

LANL Validation Qualifier Definitions	
Code	Description
J	The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual.
J+	The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.
J-	The analyte is classified as detected but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.
R	The reported sample result is classified as rejected due to serious noncompliances regarding quality control acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.
U	The analyte is classified as not detected.
UJ	The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.
I	(PCBs) - The calculated sums are considered incomplete due to lack of one or more congener results.

The validated analytical monitoring results from confirmation samples are compared with the applicable Target Action Levels (TALs), or applicable Minimum Quantification Level (MQL) value, whichever is greater, established in Part I, Section C of the Permit. The pollutant-specific Maximum TAL (MTAL), Average TAL (ATAL), and MQL values are listed in Table C-2.

- Individual sample results are compared with the applicable MTAL, if available, or the applicable MQL, whichever is greater.
- For comparison with the ATAL values, the average result from two or more samples may be used. Section D in Part II of the Permit defines the average as the geometric mean of applicable monitoring results at the SMA.
 - ~ If all analytical results are below analytical method detect level, a value of “zero” may be reported. If one or more data are above detect level, a value of one-half of the detect level shall be assigned to those below detect level for calculation purpose.
 - ~ If the average value of a specific pollutant is below its MQL, a value of zero (0) may be reported for the average.
 - ~ Further, if a new or an enhanced BMP is installed, the average is calculated based on analytical results from samples taken after installation of the BMP.
- In Section C in Part I of the Permit, footnote (1) to the table of pollutant-specific TAL and MQL values states that if an individual analytical test result is smaller than the MQL listed, a value of zero(0) or “ND” may be used for reporting and action purpose. Four pollutants do not have a Permit-specified MQL value: Ra-226 + Ra-228, adjusted gross alpha, RDX, and 2,4,6-Trinitrotoluene. For these four pollutants that do not have a specified MQL value, individual results that are less than the laboratory reporting level are reported as “<”.

Data Quality Issues

As an outcome of the LANL data validation procedures, analytical results for specific analytes have been rejected (“R” qualifier flag) due to quality control failures. Table C-3 summarizes the sample results that were rejected by LANL data validation. Sample results that are rejected due to quality control failures cannot be used to confirm that pollutants of concern are not present at concentrations greater than the applicable TAL values.

Table C-2. Target Action Levels

Pollutant (total unless indicated)	CAS Number	STORET	MQL (µg/L)	ATAL (µg/L)	MTAL (µg/L)
Radioactivity					
Adjusted Gross Alpha* (pCi/L)	---	80029	---	15	---
Ra-226 and Ra-228 (pCi/L)	---	11503	---	30	---
Metals					
Aluminum, dissolved	7429-90-5	1106	2.5	---	750
Antimony, dissolved	7440-36-0	1095	60	640	---
Arsenic, dissolved	7440-38-2	1000	0.5	9	340
Boron, dissolved	7440-42-8	1020	100	5000	
Cadmium, dissolved	7440-43-9	1025	1	---	0.6
Chromium, dissolved	7440-47-3	1030	10	---	210
Cobalt, dissolved	7440-48-4	1035	50	1000	---
Copper, dissolved	7440-50-8	1040	0.5	---	4.3
Lead, dissolved	7439-92-1	1049	0.5		17
Mercury	7439-97-6	71900	0.005	0.77	1.4
Nickel, dissolved	7440-02-0	1067	0.5	---	170
Selenium	7782-49-2	1147	5	5	20
Silver, dissolved	7440-22-4	1075	0.5	---	0.4
Thallium, dissolved	7440-28-0	1057	0.5	6.3	---
Vanadium, dissolved	7440-62-2	1085	50	100	---
Zinc, dissolved	7440-66-6	1090	20	---	42
Cyanide					
Cyanide, weak acid dissociable	---	718	10	5.2	22

* "Adjusted gross alpha" means the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample, including radium-226, but excluding radon-222 and uranium. Also excluded are source, special nuclear and by-product material as defined by the Atomic Energy Act of 1954. (NMAC 20.6.4.7.B) LANL reports the gross alpha radiation result returned by the analytical laboratory without adjustment.

Table C-2, cont'd. Target Action Levels

Pollutant (total unless indicated)	CAS Number	STORET	MQL (µg/L)	ATAL (µg/L)	MTAL (µg/L)
Dioxin					
2,3,7,8-TCDD	1746-01-6	34675	0.00001	5.1E-08	---
Semivolatile Compounds					
Benzo(a)pyrene	50-32-8	34247	5	0.18	---
Hexachlorobenzene	118-74-1	39700	5	0.0029	
Pentachlorophenol	87-86-5	39032	5	---	19
Pesticides					
4,4'-DDT and derivatives	50-29-3	39300	0.02	0.001	1.1
Aldrin	309-00-2	39330	0.01	0.0005	3
Alpha-Endosulfan	959-98-8	34361	0.01	---	0.22
Beta-Endosulfan	33213-65-9	34356	0.02	---	0.22
Chlordane	57-74-9	39350	0.2	0.0081	2.4
Dieldrin	60-57-1	39380	0.02	0.00054	0.24
Endrin	72-20-8	39390	0.02	---	0.086
Gamma-BHC	58-89-9	39340	0.05	---	0.95
Heptachlor	76-44-8	39410	0.01	---	0.52
Heptachlor Epoxide	1024-57-3	39420	0.01	---	0.52
Mercury	7439-97-6	71900	0.005	0.77	1.4
Toxaphene	8001-35-2	39400	0.3	---	0.73
PCBs					
PCBs	1336-36-3	39516	---	0.00064	---
High Explosives					
2,4,6-Trinitrotoluene (TNT)	118-96-7	81307	---	20	---
RDX	121-82-4	81364	---	200	---

Table C-3. Rejected Analytical Results

Site Monitoring Area	Analytical Suite	Analytical Method	Analyte	Sample ID	Validation Qualifier	Explanation
LA-SMA-1	PCB Congeners	EPA:1668A	Total PCB	WT_IPLAP-11-10368	R	The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement by the LANL project chemist. Because the total results for Di, Tri, Tetra, Penta, and Hexa were rejected, the Total PCB result was also rejected.
PT-SMA-0.5	HEXP	SW-846:8330	RDX Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11339	R	The analyte retention time shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.
PT-SMA-1	HEXP	SW-846:8330	RDX Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11343	R	The analyte retention time shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.
CDV-SMA-6.02	HEXP	SW-846:8330	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11298	R	The analyte retention time shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.
S-SMA-3.6	HEXP	SW-846:8330	Trinitrotoluene[2,4,6-]	WT_IPSAN-11-10683	R	The analyte retention time shifted by more than 0.05 minutes from the mid-level standard of the initial calibration.

Baseline confirmation samples must be analyzed for the pollutants of concern specified in Appendix B of the Permit. In some instances, analytical results were not returned for certain requested pollutants of concern due to errors at the analytical laboratory or, in one instance, because sample bottles were broken during shipment. Required pollutants of concern for which results were not received are summarized in Table C-4.

- Six samples that were submitted for analysis weak acid dissociable cyanide were erroneously analyzed for total cyanide by the analytical laboratory. The concentration of total cyanide is generally greater than the concentration of weak acid dissociable cyanide in water samples (Standard Test Methods for Cyanides in Water, ASTM D2036-09).
- For one sample collected at S-SMA-0.25, the glass bottles for total PCB analysis were broken during shipment. Total PCBs were successfully analyzed for a second confirmation sample collected at S-SMA-0.25.
- For one sample collected at 2M-SMA-2, the analytical laboratory made an irrecoverable error during sample extraction, and there was insufficient remaining sample volume to perform a re-extraction. No Total PCB results were returned for sample; however Total PCBs were successfully analyzed for a second confirmation sample collected at 2M-SMA-2.
- For one sample collected at ACID-SMA-1.05, the analytical laboratory measured and reported alpha-chlordane and gamma-chlordane, instead of total chlordane, which is a mixture of alpha-chlordane, gamma-chlordane, and some other compounds:

“The term chlordane in association with CAS No.57-74-9 refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components. For example, the mixture used by the National Cancer Institute in its 1977 bioassay was described as 94.8% chlordane (*cis* [or alpha]-chlordane, 71.7%; *trans* [or gamma]-chlordane, 23.1%) with heptachlor, 0.3%; *trans*-nonachlor, 1.1%; *cis*-nonachlor, 0.6%; chlordene isomers, 0.25%; 3% other compounds, and hexachlorocyclopentadiene, 0.25%.” [Toxicological Review of Chlordane \(Technical\) EPA, 1997.](#)

- The sum of the alpha- and gamma-chlordane results represents 94.8% of the mixture associated with CAS No. 57-74-9. Neither alpha- nor gamma-chlordane were detected in the sample; nor were any other pesticides detected in the sample. Therefore, the alpha- and gamma-chlordane results can be used to confirm that chlordane is not present at a concentration greater than the MTAL value of 2.4 µg/L or greater than the MQL value of 0.2 µg/L (the MQL is greater than the ATAL value of 0.0081 µg/L).

Table C-4. Missing Pollutants of Concern

Site Monitoring Area	Collection Date	Analyte Code	Analyte Name	Comment
R-SMA-1.95	08/19/11	CN(wad)	Cyanide, weak acid dissociable	Cyanide (total) analysis was performed instead of cyanide (weak acid dissociable) analysis. Cyanide (total) was not detected.
ACID-SMA-1.05	08/21/11	57-74-9	Chlordane	Analysis of chlordane (CAS No. 57-74-9) was not performed. Alpha chlordane and gamma chlordane were reported separately. Alpha and Gamma Chlordane cannot be summed to provide the requested analyte.
ACID-SMA-2	08/19/11	CN(wad)	Cyanide, weak acid dissociable	Cyanide (total) analysis was performed instead of cyanide (weak acid dissociable) analysis. Cyanide (total) was detected at 2.58 ug/L.
LA-SMA-1	08/19/11	CN(wad)	Cyanide, weak acid dissociable	Cyanide (total) analysis was performed instead of cyanide (weak acid dissociable) analysis. Cyanide (total) was detected at 7.73 ug/L.
LA-SMA-1.1	08/19/11	CN(wad)	Cyanide, weak acid dissociable	Cyanide (total) analysis was performed instead of cyanide (weak acid dissociable) analysis. Cyanide (total) was detected at 14.7 ug/L.
DP-SMA-0.3	08/19/11	CN(wad)	Cyanide, weak acid dissociable	Cyanide (total) analysis was performed instead of cyanide (weak acid dissociable) analysis. Cyanide (total) was not detected.
S-SMA-0.25	07/28/11	1336-36-3	Total PCB	Total PCB was not reported by the analytical laboratory. Both sample bottles for PCB analyses were broken during shipment to the laboratory.
2M-SMA-2	07/28/11	1336-36-3	Total PCB	The analytical laboratory made an unrecoverable error during sample extraction resulting in the cancellation of Total PCB analyses from the affected sample.
A-SMA-2.7	09/04/11	CN(wad)	Cyanide, weak acid dissociable	Cyanide (total) analysis was performed instead of cyanide (weak acid dissociable) analysis. Cyanide (total) was detected at 7.47 ug/L.

The 40 CFR Part 136 requirements for Clean Water Act compliance samples include maximum hold times between the time of sample collection and the time of sample analysis. Analytical or extraction hold times were missed for several analytical suites, as summarized in Table C-5. Additionally, one confirmation sample collected at M-SMA-7 was not submitted for analysis because the hold time for weak acid dissociable cyanide was exceeded at the time of sample retrieval.

The analytical results from samples extracted or analyzed beyond the appropriate holding time may have a low bias and therefore could potentially under-report the concentration present in the sample. Consequently, the results for analytes where holding times were exceeded cannot be used to confirm that pollutants of concern are not present at concentrations greater than the applicable TAL values.

Table C-5. Missed Hold Times

Site Monitoring Area	Analytical Suite	Analyte	Sample ID	Collection Date	Hold Time (days)
R-SMA-1.95	HEXP	RDX	WT_IPLAP-11-10456	8/19/2011	7
R-SMA-1.95	HEXP	Trinitrotoluene[2,4,6-]	WT_IPLAP-11-10456	8/19/2011	7
LA-SMA-1.25	Geninorg	Cyanide (wad)	WT_IPLAP-11-10473	8/28/2011	14
LA-SMA-10.12	Geninorg	Cyanide (wad)	WT_IPLAP-11-10512	9/1/2011	14
S-SMA-0.25	SVOA	Benzo(a)pyrene	WT_IPSAN-11-10618	7/28/2011	7
S-SMA-0.25	SVOA	Hexachlorobenzene	WT_IPSAN-11-10618	7/28/2011	7
S-SMA-0.25	SVOA	Pentachlorophenol	WT_IPSAN-11-10618	7/28/2011	7
S-SMA-1.1	Geninorg	Cyanide (wad)	WT_IPSAN-11-10659	9/4/2011	14
S-SMA-3.53	SVOA	Benzo(a)pyrene	WT_IPSAN-11-10634	8/4/2011	7
S-SMA-3.53	SVOA	Hexachlorobenzene	WT_IPSAN-11-10634	8/4/2011	7
S-SMA-3.53	SVOA	Pentachlorophenol	WT_IPSAN-11-10634	8/4/2011	7
S-SMA-3.6	HEXP	RDX	WT_IPSAN-11-10683	8/13/2011	7
S-SMA-6	Geninorg	Cyanide (wad)	WT_IPSAN-11-10691	8/19/2011	14
S-SMA-6	HEXP	RDX	WT_IPSAN-11-10691	8/19/2011	7
S-SMA-6	HEXP	Trinitrotoluene[2,4,6-]	WT_IPSAN-11-10691	8/19/2011	7
CDB-SMA-0.25	SVOA	Benzo(a)pyrene	WT_IPMOR-11-10941	9/1/2011	7
CDB-SMA-0.25	SVOA	Hexachlorobenzene	WT_IPMOR-11-10941	9/1/2011	7
CDB-SMA-0.25	SVOA	Pentachlorophenol	WT_IPMOR-11-10941	9/1/2011	7
M-SMA-1	Geninorg	Cyanide (wad)	WT_IPMOR-11-10861	8/19/2011	14
M-SMA-10.3	Geninorg	Cyanide (wad)	WT_IPMOR-11-11030	8/19/2011	14
M-SMA-4	Geninorg	Cyanide (wad)	WT_IPMOR-11-10901	8/19/2011	14
2M-SMA-1.67	HEXP	RDX	WT_IPPAJ-11-11205	9/15/2011	7
2M-SMA-1.67	HEXP	Trinitrotoluene[2,4,6-]	WT_IPPAJ-11-11205	9/15/2011	7
2M-SMA-2	Geninorg	Cyanide (wad)	WT_IPPAJ-11-11230	9/4/2011	14
2M-SMA-2.2	Geninorg	Cyanide (wad)	WT_IPPAJ-11-11150	9/4/2011	14
PJ-SMA-16	HEXP	RDX	WT_IPPAJ-11-11125	7/30/2011	7
PJ-SMA-16	HEXP	Trinitrotoluene[2,4,6-]	WT_IPPAJ-11-11125	7/30/2011	7
PJ-SMA-3.05	Geninorg	Cyanide (wad)	WT_IPPAJ-11-11141	8/19/2011	14
STRM-SMA-4.2	Geninorg	Cyanide (wad)	WT_IPPAJ-11-11134	9/9/2011	14
STRM-SMA-5.05	Geninorg	Cyanide (wad)	WT_IPPAJ-11-11157	8/21/2011	14
CDV-SMA-2.41	Geninorg	Cyanide (wad)	WT_IPWAT-11-11281	8/21/2011	14
CDV-SMA-2.5	HEXP	RDX	WT_IPWAT-11-11309	9/1/2011	7
CDV-SMA-2.5	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11309	9/1/2011	7
CDV-SMA-2.5	SVOA	Benzo(a)pyrene	WT_IPWAT-11-11309	9/1/2011	7
CDV-SMA-2.5	SVOA	Hexachlorobenzene	WT_IPWAT-11-11309	9/1/2011	7
CDV-SMA-2.5	SVOA	Pentachlorophenol	WT_IPWAT-11-11309	9/1/2011	7

Table C-5, cont'd. Missed Hold Times

Site Monitoring Area	Analytical Suite	Analyte	Sample ID	Collection Date	Hold Time (days)
CDV-SMA-3	HEXP	RDX	WT_IPWAT-11-11261	8/21/2011	7
CDV-SMA-3	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11261	8/21/2011	7
CDV-SMA-6.02	HEXP	RDX	WT_IPWAT-11-11297	8/13/2011	7
CDV-SMA-6.02	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11297	8/13/2011	7
CDV-SMA-6.02	HEXP	RDX	WT_IPWAT-11-11298	9/1/2011	7
CDV-SMA-6.02	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11298	9/1/2011	7
PT-SMA-0.5	SVOA	Benzo(a)pyrene	WT_IPWAT-11-11339	9/1/2011	7
PT-SMA-0.5	SVOA	Hexachlorobenzene	WT_IPWAT-11-11339	9/1/2011	7
PT-SMA-0.5	SVOA	Pentachlorophenol	WT_IPWAT-11-11339	9/1/2011	7
PT-SMA-1	SVOA	Benzo(a)pyrene	WT_IPWAT-11-11343	9/1/2011	7
PT-SMA-1	SVOA	Hexachlorobenzene	WT_IPWAT-11-11343	9/1/2011	7
PT-SMA-1	SVOA	Pentachlorophenol	WT_IPWAT-11-11343	9/1/2011	7
PT-SMA-2.01	HEXP	RDX	WT_IPWAT-11-11423	8/18/2011	7
PT-SMA-2.01	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11423	8/18/2011	7
PT-SMA-2.01	SVOA	Benzo(a)pyrene	WT_IPWAT-11-11423	8/18/2011	7
PT-SMA-2.01	SVOA	Hexachlorobenzene	WT_IPWAT-11-11423	8/18/2011	7
PT-SMA-2.01	SVOA	Pentachlorophenol	WT_IPWAT-11-11423	8/18/2011	7
W-SMA-1	Geninorg	Cyanide (wad)	WT_IPWAT-11-11352	9/9/2011	14
W-SMA-1.5	Geninorg	Cyanide (wad)	WT_IPWAT-11-11452	9/1/2011	14
W-SMA-10	Geninorg	Cyanide (wad)	WT_IPWAT-11-11355	8/21/2011	14
W-SMA-14.1	HEXP	RDX	WT_IPWAT-11-11455	7/25/2011	7
W-SMA-14.1	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11455	7/25/2011	7
W-SMA-14.1	HEXP	RDX	WT_IPWAT-11-11456	8/18/2011	7
W-SMA-14.1	HEXP	Trinitrotoluene[2,4,6-]	WT_IPWAT-11-11456	8/18/2011	7
W-SMA-2.05	Geninorg	Cyanide (wad)	WT_IPWAT-11-11411	8/21/2011	14
W-SMA-9.9	Geninorg	Cyanide (wad)	WT_IPWAT-11-11447	8/21/2011	14
A-SMA-2.7	HEXP	RDX	WT_IPANC-11-11576	9/4/2011	7
A-SMA-2.7	HEXP	Trinitrotoluene[2,4,6-]	WT_IPANC-11-11576	9/4/2011	7
CHQ-SMA-1.02	Geninorg	Cyanide (wad)	WT_IPCHA-11-11539	8/21/2011	14

APPENDIX C, Part II

Baseline Monitoring Results

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Table C-6. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
R002	R-SMA-1	SS00	2011	F	2	2								
				UF	2		2	2	2	2				
R003	R-SMA-1.95	SS092701	2011	F	1	1								
				UF	1		1	(a)	1	1				1
P001	ACID-SMA-1.05	SS090102	2011	F	1	1								
				UF	1		1	1	1	1		1	1	
P002	ACID-SMA-2	SS100105	2011	F	1	1								
				UF	1		1	(a)	1	1			1	
L001	LA-SMA-0.85	SS091010	2011	F	2	2								
				UF	2		2	2	2	2				
L003	LA-SMA-1	SS081003	2011	F	1	1								
				UF	1		1	(a)	1	1			1	
L004	LA-SMA-1.1	SS081004	2011	F	2	2								
				UF	2		2	2	2	2				

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
L005	LA-SMA-1.25	SS091011	2011	F	2	2								
				UF	2		2	2	2	2				
L007	LA-SMA-2.3	SS081024	2011	F	1	1								
				UF	1		1	1	1	1				
L010	LA-SMA-4.1	SS101035	2011	F	2	2								
				UF	2		2	2	2	2			2	
L012A	LA-SMA-5.02	SS091013	2011	F	2	2								
				UF	2		2	2	2	2			2	
L014	LA-SMA-5.35	SS091014	2011	F	2	2								
				UF	2		2	2	2	2				
L015	LA-SMA-5.31	SS081012	2011	F	1	1								
				UF	1		1	1	1	1				
L016	LA-SMA-5.33	SS081013	2011	F	1	1								
				UF	1		1	1	1	1				

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
L019	LA-SMA-5.91	SS091019	2011	F	1	1								
				UF	1		1	1	1	1				
L030A	LA-SMA-10.12	SS091021	2011	F	1	1								
				UF	1		1	1	1	1				
D001	DP-SMA-0.3	SS0375	2011	F	1	1								
				UF	1		1	(a)	1	1				
D007	DP-SMA-3	SS111906	2011	F	1	1								
				UF	1		1	1	1	1				
S001	S-SMA-0.25	SS091601	2011	F	2	2								
				UF	2		2	1 (a)	2	2	2		1 (b)	
S002	S-SMA-1.1	SS101622	2011	F	2	2								
				UF	2		2	2	2	2			2	
S003	S-SMA-2	SS101626	2011	F	2	2								
				UF	2		2	2	2	2			2	

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
S003A	S-SMA-2.01	SS091602	2011	F	2	2								
				UF	2		2	2	2	2			2	
S005B	S-SMA-3.53	SS091605	2011	F	1	1								
				UF	1		1	1	1	1	1		1	
S006	S-SMA-3.6	SS12255	2011	F	2	2								
				UF	2		2	2	2	2			2	2
S011	S-SMA-4.1	SS101623	2011	F	2	2								
				UF	2		2	2	2	2			2	
S016	S-SMA-6	SS1248	2011	F	2	2								
				UF	2		2	2	2	2			2	2
C002	CDB-SMA-0.25	SS091311	2011	F	1	1								
				UF	1		1	1	1	1	1		1	
C004	CDB-SMA-1	SS2185	2011	F	1	1								
				UF	1		1	1	1	1			1	

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.
 (b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
M001	M-SMA-1	SS198	2011	F	2	2								
				UF	2		2	2	2	2			2	
M002B	M-SMA-1.22	SS091228	2011	F	1	1								
				UF	1		1	1	1	1				
M006	M-SMA-4	SS1987	2011	F	1	1								
				UF	1		1	1	1	1			1	
M012A	M-SMA-10.01	SS091229	2011	F	2	2								
				UF	2		2	2	2	2				
M013	M-SMA-10.3	SS20025	2011	F	2	2								
				UF	2		2	2	2	2			2	
T002	T-SMA-1	SS093713	2011	F	2	2								
				UF	2		2	2	2	2			2	
E001	2M-SMA-1	SS2432	2011	F	2	2								
				UF	2		2	2	2	2				

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
E002	2M-SMA-1.42	SS093203	2011	F	2	2								
				UF	2		2	2	2					
E004	2M-SMA-1.44	SS093205	2011	F	1	1								
				UF	1		1	1	1	1				
E005	2M-SMA-1.45	SS103215	2011	F	1	1								
				UF	1		1	1	1	1				
E007	2M-SMA-1.65	SS093209	2011	F	1	1								
				UF	1		1	1	1	1				
E008	2M-SMA-1.67	SS103216	2011	F	1	1								
				UF	1		1	1	1	1				1
E009	2M-SMA-1.7	SS2438	2011	F	2	2								
				UF	2		2	2	2	2				
E010	2M-SMA-1.8	SS103217	2011	F	2	2								
				UF	2		2	2	2	2				

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.
 (b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
E012	2M-SMA-2	SS103219	2011	F	2	2								
				UF	2		2	2	2	2			2	
E013	2M-SMA-2.2	SS093214	2011	F	2	2								
				UF	2		2	2	2	2			1 (b)	
J003	PJ-SMA-3.05	SS092326	2011	F	1	1								
				UF	1		1	1	1	1				
J006	PJ-SMA-5.1	SS092306	2011	F	2	2								
				UF	2		2	2	2	2				
J016	PJ-SMA-13.7	SS102336	2011	F	1	1								
				UF	1		1	1	1	1				
J022	PJ-SMA-14.8	SS092324	2011	F	2	2								
				UF	2		2	2	2	2				
J023	PJ-SMA-16	SS092325	2011	F	1	1								
				UF	1		1	1	1	1				1

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
J027	PJ-SMA-20	SS092332	2011	F	1	1								
				UF	1		1	1	1			1		
J028	STRM-SMA-1.05	SS093001	2011	F	2	2								
				UF	2		2	2	2					
J030	STRM-SMA-4.2	SS093006	2011	F	2	2								
				UF	2		2	2	2					
J031	STRM-SMA-5.05	SS093002	2011	F	1	1								
				UF	1		1	1	1			1		
V004	CDV-SMA-1.45	SS090406	2011	F	1	1								
				UF	1		1	1	1					
V008	CDV-SMA-2.41	SS090407	2011	F	1	1								
				UF	1		1	1	1			1		
V009	CDV-SMA-2.5	SS090420	2011	F	1	1								
				UF	1		1	1	1	1	1			1

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
V010	CDV-SMA-3	SS25605	2011	F	1	1								
				UF	1		1	1	1					1
V012A	CDV-SMA-6.02	SS090411	2011	F	2	2								
				UF	2		2	2	2					2
W001	W-SMA-1	SS25203	2011	F	2	2								
				UF	2		2	2	2					
W002	W-SMA-1.5	SS103928	2011	F	2	2								
				UF	2		2	2	2					
W003	W-SMA-2.05	SS093903	2011	F	1	1								
				UF	1		1	1	1					
W012A	W-SMA-8.71	SS093912	2011	F	1	1								
				UF	1		1	1	1					
W017	W-SMA-9.9	SS103934	2011	F	1	1								
				UF	1		1	1	1					

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.
 (b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
W018	W-SMA-10	SS25245	2011	F	1	1								
				UF	1		1	1	1					
W019	W-SMA-11.7	SS103935	2011	F	1	1								
				UF	1		1	1	1					
W021	W-SMA-14.1	SS103936	2011	F	2	2								
				UF	2		2	2	2					2
W022	W-SMA-15.1	SS093927	2011	F	1	1								
				UF	1		1	1	1	1				
F001	F-SMA-2	SS092401	2011	F	1	1								
				UF	1		1	1	1	1				1
I001	PT-SMA-0.5	SS26565	2011	F	1	1								
				UF	1		1	1	1	1	1		1	1
I002	PT-SMA-1	SS2657	2011	F	1	1								
				UF	1		1	1	1	1	1			1

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.
 (b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-6, cont'd. Baseline Monitoring Samples Collected during 2011

Permitted Feature	Site Monitoring Area	Station Number	Year	F/UF	Number of Samples	Metals		General Inorganic	Radioactivity		Organics			
						Dissolved Metals ¹	Total Recoverable Metals ²	CN(wad)	Gross Alpha	Ra-226 + Ra-228	SVOAs ³	Pesticides ³	Total PCBs	High Explosives ³
I004A	PT-SMA-2.01	SS094814	2011	F	1	1								
				UF	1		1	1	1	1				1
A004	A-SMA-2.7	SS090205	2011	F	2	2								
				UF	2		2	a	2	2				2
Q002A	CHQ-SMA-1.02	SS090613	2011	F	1	1								
				UF	1		1	1	1	1			1	

1. Dissolved Metals: aluminum, antimony, arsenic, boron, cadmium, chromium, cobalt, copper, lead, nickel, silver, thallium, vanadium, zinc.
2. Total Recoverable Metals: mercury, selenium. Cyanide: weak acid dissociable cyanide.
3. See Section C in Part I of the Permit for individual organic pollutants of concern.

(a) Cyanide (total) was analyzed instead of cyanide (weak acid dissociable) due to analytical laboratory error.

(b) Total PCB result was not reported due to bottles broken in shipment or analytical laboratory error.

Table C-7. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
R002	R-SMA-1	SS00	WT_IPLAP-11-10570	7/2/11	F	0	226	2.3	0	0	0	0	2.9
R002	R-SMA-1	SS00	WT_IPLAP-11-10572	7/2/11	UF	—	—	—	—	—	—	—	—
R002	R-SMA-1	SS00	WT_IPLAP-11-10571	8/19/11	F	0	2010	< 1.7	0	0	0	0	3.4
R002	R-SMA-1	SS00	WT_IPLAP-11-10573	8/19/11	UF	—	—	—	—	—	—	—	—
R003	R-SMA-1.95	SS092701	WT_IPLAP-11-10454	8/19/11	F	0	444	< 1.7	0	0	0	0	0.86
R003	R-SMA-1.95	SS092701	WT_IPLAP-11-10456	8/19/11	UF	—	—	—	—	—	—	—	—
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10514	8/21/11	F	0	101	< 1.7	0	0	0	0	3.1
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10516	8/21/11	UF	—	—	—	—	—	—	—	—
P002	ACID-SMA-2	SS100105	WT_IPLAP-11-10546	8/19/11	F	0	789	< 1.7	0	0	0	0	3.8
P002	ACID-SMA-2	SS100105	WT_IPLAP-11-10548	8/19/11	UF	—	—	—	—	—	—	—	—
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10466	7/30/11	F	0	1310	< 1.7	0	0	0	0	18.9
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10468	7/30/11	UF	—	—	—	—	—	—	—	—
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10467	8/14/11	F	0	4170	2.4	0	0	0	0	47.1
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10469	8/14/11	UF	—	—	—	—	—	—	—	—
L003	LA-SMA-1	SS081003	WT_IPLAP-11-10366	8/19/11	F	0	6510	2.9	0	0	0	0	7.8
L003	LA-SMA-1	SS081003	WT_IPLAP-11-10368	8/19/11	UF	—	—	—	—	—	—	—	—
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10370	7/28/11	F	0	30.3	< 1.7	0	0	0	0	26.6
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10372	7/28/11	UF	—	—	—	—	—	—	—	—
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10371	8/19/11	F	0	64.5	< 1.7	0	0	0	0	6.3
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10373	8/19/11	UF	—	—	—	—	—	—	—	—
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10470	7/30/11	F	0	81.3	3	0	0	0	20.3	13.8

F = Filtered; UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.
 "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10472	7/30/11	UF	—	—	—	—	—	—	—	—
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10471	8/28/11	F	0	37.9	< 1.7	0	0	0	0	33.3
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10473	8/28/11	UF	—	—	—	—	—	—	—	—
L007	LA-SMA-2.3	SS081024	WT_IPLAP-11-10410	8/21/11	F	0	112	< 1.7	0	0	0	0	3.4
L007	LA-SMA-2.3	SS081024	WT_IPLAP-11-10412	8/21/11	UF	—	—	—	—	—	—	—	—
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10534	8/19/11	F	0	23.8	< 1.7	0	0	0	0	6.7
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10536	8/19/11	UF	—	—	—	—	—	—	—	—
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10535	9/4/11	F	0	19.4	< 1.7	0	0	0	0	5.3
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10537	9/4/11	UF	—	—	—	—	—	—	—	—
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10478	8/3/11	F	0	131	< 1.7	0	0	0	0	3.7
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10480	8/3/11	UF	—	—	—	—	—	—	—	—
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10479	8/19/11	F	0	50.8	< 1.7	0	0	0	0	4.9
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10481	8/19/11	UF	—	—	—	—	—	—	—	—
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10482	8/4/11	F	0	17.4	1.9	0	0	0	0	5.9
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10484	8/4/11	UF	—	—	—	—	—	—	—	—
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10483	9/7/11	F	0	504	3.7	0	0	0	0	3.7
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10485	9/7/11	UF	—	—	—	—	—	—	—	—
L015	LA-SMA-5.31	SS081012	WT_IPLAP-11-10378	8/19/11	F	0	361	< 1.7	0	0	0	0	5.5
L015	LA-SMA-5.31	SS081012	WT_IPLAP-11-10380	8/19/11	UF	—	—	—	—	—	—	—	—
L016	LA-SMA-5.33	SS081013	WT_IPLAP-11-10382	8/21/11	F	0	115	1.9	0	0	0	0	3.4
L016	LA-SMA-5.33	SS081013	WT_IPLAP-11-10384	8/21/11	UF	—	—	—	—	—	—	—	—

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
L019	LA-SMA-5.91	SS091019	WT_IPLAP-11-10502	9/7/11	F	0	41.9	< 1.7	0	0	0	0	2.5
L019	LA-SMA-5.91	SS091019	WT_IPLAP-11-10504	9/7/11	UF	—	—	—	—	—	—	—	—
L030A	LA-SMA-10.12	SS091021	WT_IPLAP-11-10510	9/1/11	F	0	211	< 1.7	0	0	0	0	2.2
L030A	LA-SMA-10.12	SS091021	WT_IPLAP-11-10512	9/1/11	UF	—	—	—	—	—	—	—	—
D001	DP-SMA-0.3	SS0375	WT_IPLAP-11-10588	8/19/11	F	0	151	2.4	0	0	0	0	2.1
D001	DP-SMA-0.3	SS0375	WT_IPLAP-11-10590	8/19/11	UF	—	—	—	—	—	—	—	—
D007	DP-SMA-3	SS111906	WT_IPLAP-11-25755	7/29/11	F	0	1870	3.5	0	0	0	0	5.5
D007	DP-SMA-3	SS111906	WT_IPLAP-11-25756	7/29/11	UF	—	—	—	—	—	—	—	—
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10616	7/28/11	F	0	50.3	< 1.7	0	0	0	0	9.7
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10618	7/28/11	UF	—	—	—	—	—	—	—	—
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10617	8/15/11	F	0	163	< 1.7	0	0	0	0	10.9
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10619	8/15/11	UF	—	—	—	—	—	—	—	—
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10656	8/4/11	F	0	239	< 1.7	0	0	0	0	5.2
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10658	8/4/11	UF	—	—	—	—	—	—	—	—
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10657	9/4/11	F	0	218	< 1.7	0	0	0	0	5.8
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10659	9/4/11	UF	—	—	—	—	—	—	—	—
S003	S-SMA-2	SS101626	WT_IPSAN-11-10672	7/28/11	F	0	135	1.8	0	0	0	0	8.3
S003	S-SMA-2	SS101626	WT_IPSAN-11-10674	7/28/11	UF	—	—	—	—	—	—	—	—
S003	S-SMA-2	SS101626	WT_IPSAN-11-10673	8/13/11	F	0	392	3.1	0	0	0	0	5.8
S003	S-SMA-2	SS101626	WT_IPSAN-11-10675	8/13/11	UF	—	—	—	—	—	—	—	—
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10620	8/5/11	F	0	142	< 1.7	0	0	0	0	10.9

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10622	8/5/11	UF	—	—	—	—	—	—	—	—
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10621	9/7/11	F	0	642	< 1.7	0	0	0	0	10.7
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10623	9/7/11	UF	—	—	—	—	—	—	—	—
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10632	8/4/11	F	0	1490	< 1.7	0	0	0	0	9.6
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10634	8/4/11	UF	—	—	—	—	—	—	—	—
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10680	7/28/11	F	0	48	2.3	0	0	0	0	40.5
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10682	7/28/11	UF	—	—	—	—	—	—	—	—
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10681	8/13/11	F	0	260	< 1.7	0	0	0	0	10.9
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10683	8/13/11	UF	—	—	—	—	—	—	—	—
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10660	8/2/11	F	0	470	< 1.7	0	0	0	0	2.7
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10662	8/2/11	UF	—	—	—	—	—	—	—	—
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10661	9/1/11	F	0	267	1.8	0	0	0	0	2.2
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10663	9/1/11	UF	—	—	—	—	—	—	—	—
S016	S-SMA-6	SS1248	WT_IPSAN-11-10688	7/30/11	F	0	1470	< 1.7	0	0	0	0	8.6
S016	S-SMA-6	SS1248	WT_IPSAN-11-10690	7/30/11	UF	—	—	—	—	—	—	—	—
S016	S-SMA-6	SS1248	WT_IPSAN-11-10689	8/19/11	F	0	355	3.5	0	0	0	0	6.1
S016	S-SMA-6	SS1248	WT_IPSAN-11-10691	8/19/11	UF	—	—	—	—	—	—	—	—
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10939	9/1/11	F	0	2310	< 1.7	0	0	0	0	11.2
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10941	9/1/11	UF	—	—	—	—	—	—	—	—
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10855	9/7/11	F	0	1120	< 1.7	0	0	0	0	8
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10857	9/7/11	UF	—	—	—	—	—	—	—	—

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
M001	M-SMA-1	SS198	WT_IPMOR-11-10859	8/19/11	F	0	408	< 1.7	0	0	0	0	3.4
M001	M-SMA-1	SS198	WT_IPMOR-11-10861	8/19/11	UF	—	—	—	—	—	—	—	—
M001	M-SMA-1	SS198	WT_IPMOR-11-10860	9/7/11	F	0	407	< 1.7	0	0	0	0	3
M001	M-SMA-1	SS198	WT_IPMOR-11-10862	9/7/11	UF	—	—	—	—	—	—	—	—
M002B	M-SMA-1.22	SS091228	WT_IPMOR-11-10967	9/15/11	F	0	904	< 1.7	0	0	0	0	6
M002B	M-SMA-1.22	SS091228	WT_IPMOR-11-10969	9/15/11	UF	—	—	—	—	—	—	—	—
M006	M-SMA-4	SS1987	WT_IPMOR-11-10899	8/19/11	F	0	236	< 1.7	0	0	0	0	6
M006	M-SMA-4	SS1987	WT_IPMOR-11-10901	8/19/11	UF	—	—	—	—	—	—	—	—
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13866	8/27/11	F	0	84.8	< 1.7	0	0	0	0	16
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13865	8/27/11	UF	—	—	—	—	—	—	—	—
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13868	9/15/11	F	0	69.2	< 1.7	0	0	0	0	6.5
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13867	9/15/11	UF	—	—	—	—	—	—	—	—
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11027	7/30/11	F	0	2500	< 1.7	0	0	0	0	4.7
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11029	7/30/11	UF	—	—	—	—	—	—	—	—
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11028	8/19/11	F	0	873	< 1.7	0	0	0	0	3.2
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11030	8/19/11	UF	—	—	—	—	—	—	—	—
T002	T-SMA-1	SS093713	WT_IPMOR-11-10983	7/30/11	F	0	39.5	5.5	0	0	0	0	21.2
T002	T-SMA-1	SS093713	WT_IPMOR-11-10985	7/30/11	UF	—	—	—	—	—	—	—	—
T002	T-SMA-1	SS093713	WT_IPMOR-11-10984	8/15/11	F	0	197	4.3	0	0	0	0	12.6
T002	T-SMA-1	SS093713	WT_IPMOR-11-10986	8/15/11	UF	—	—	—	—	—	—	—	—
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11031	8/4/11	F	0	362	< 1.7	0	0	0	0	2.6

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11033	8/4/11	UF	—	—	—	—	—	—	—	—
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11032	8/20/11	F	0	1200	< 1.7	0	0	0	0	2.8
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11034	8/20/11	UF	—	—	—	—	—	—	—	—
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11087	8/21/11	F	0	794	< 1.7	0	0	0	0	2.4
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11089	8/21/11	UF	—	—	—	—	—	—	—	—
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11088	9/15/11	F	0	644	< 1.7	0	0	0	0	1.6
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11090	9/15/11	UF	—	—	—	—	—	—	—	—
E004	2M-SMA-1.44	SS093205	WT_IPPAJ-11-11091	8/21/11	F	0	607	< 1.7	0	0	0	0	31.5
E004	2M-SMA-1.44	SS093205	WT_IPPAJ-11-11093	8/21/11	UF	—	—	—	—	—	—	—	—
E005	2M-SMA-1.45	SS103215	WT_IPPAJ-11-11199	9/7/11	F	0	100	< 1.7	0	0	0	0	< 1.9
E005	2M-SMA-1.45	SS103215	WT_IPPAJ-11-11201	9/7/11	UF	—	—	—	—	—	—	—	—
E007	2M-SMA-1.65	SS093209	WT_IPPAJ-11-11095	8/21/11	F	0	676	< 1.7	0	0	0	0	3.3
E007	2M-SMA-1.65	SS093209	WT_IPPAJ-11-11097	8/21/11	UF	—	—	—	—	—	—	—	—
E008	2M-SMA-1.67	SS103216	WT_IPPAJ-11-11203	9/15/11	F	0	493	< 1.7	0	0	0	0	0.95
E008	2M-SMA-1.67	SS103216	WT_IPPAJ-11-11205	9/15/11	UF	—	—	—	—	—	—	—	—
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11039	8/3/11	F	0	47.7	< 1.7	318	0	0	0	11.4
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11041	8/3/11	UF	—	—	—	—	—	—	—	—
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11040	9/9/11	F	0	18.7	< 1.7	0	0	0	0	2.9
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11042	9/9/11	UF	—	—	—	—	—	—	—	—
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11207	8/4/11	F	0	72.9	4.4	0	0	0	0	13.2
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11209	8/4/11	UF	—	—	—	—	—	—	—	—

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11208	9/9/11	F	0	20.1	< 1.7	0	0	0	0	6.6
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11210	9/9/11	UF	—	—	—	—	—	—	—	—
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11227	7/28/11	F	0	24.4	< 1.7	0	0	0	0	14.9
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11229	7/28/11	UF	—	—	—	—	—	—	—	—
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11228	9/4/11	F	0	37.3	< 1.7	0	0	0	0	5.5
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11230	9/4/11	UF	—	—	—	—	—	—	—	—
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11147	8/13/11	F	0	30.9	< 1.7	0	0	0	0	16.4
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11149	8/13/11	UF	—	—	—	—	—	—	—	—
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11148	9/4/11	F	0	35.3	< 1.7	0	0	0	0	10.1
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11150	9/4/11	UF	—	—	—	—	—	—	—	—
J003	PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11139	8/19/11	F	0	217	< 1.7	0	0	0	0	1.9
J003	PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11141	8/19/11	UF	—	—	—	—	—	—	—	—
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11127	8/21/11	F	0	209	2.9	0	0	0	0	8.2
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11129	8/21/11	UF	—	—	—	—	—	—	—	—
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11128	9/7/11	F	0	120	2.6	0	0	0	0	11.1
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11130	9/7/11	UF	—	—	—	—	—	—	—	—
J016	PJ-SMA-13.7	SS102336	WT_IPPAJ-11-11195	9/1/11	F	0	143	< 1.7	0	0	0	0	1.7
J016	PJ-SMA-13.7	SS102336	WT_IPPAJ-11-11197	9/1/11	UF	—	—	—	—	—	—	—	—
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11119	7/28/11	F	0	72.9	< 1.7	0	0	0	0	3.7
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11121	7/28/11	UF	—	—	—	—	—	—	—	—
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11120	8/18/11	F	0	205	< 1.7	0	0	0	0	2.7

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11122	8/18/11	UF	—	—	—	—	—	—	—	—
J023	PJ-SMA-16	SS092325	WT_IPPAJ-11-11123	7/30/11	F	0	29.4	< 1.7	0	0	0	0	2
J023	PJ-SMA-16	SS092325	WT_IPPAJ-11-11125	7/30/11	UF	—	—	—	—	—	—	—	—
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11179	7/29/11	F	0	155	< 1.7	0	0	0	0	8.1
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11181	7/29/11	UF	—	—	—	—	—	—	—	—
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11151	8/5/11	F	0	42.9	< 1.7	0	0	0	0	5.7
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11153	8/5/11	UF	—	—	—	—	—	—	—	—
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11152	8/26/11	F	0	101	< 1.7	0	0	0	0	6.9
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11154	8/26/11	UF	—	—	—	—	—	—	—	—
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11131	8/21/11	F	0	695	< 1.7	0	0	0	0	2.2
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11133	8/21/11	UF	—	—	—	—	—	—	—	—
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11132	9/9/11	F	0	2330	< 1.7	0	0	0	0	3.5
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11134	9/9/11	UF	—	—	—	—	—	—	—	—
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11155	8/21/11	F	0	1170	< 1.7	0	0	0	0	4
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11157	8/21/11	UF	—	—	—	—	—	—	—	—
V004	CDV-SMA-1.45	SS090406	WT_IPWAT-11-11303	8/21/11	F	0	550	< 1.7	0	0	0	0	1.2
V004	CDV-SMA-1.45	SS090406	WT_IPWAT-11-11305	8/21/11	UF	—	—	—	—	—	—	—	—
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11279	8/21/11	F	0	588	< 1.7	0	0	0	0	2.2
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11281	8/21/11	UF	—	—	—	—	—	—	—	—
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11307	9/1/11	F	0	483	< 1.7	0	0	0	0	1.9
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11309	9/1/11	UF	—	—	—	—	—	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
V010	CDV-SMA-3	SS25605	WT_IPWAT-11-11259	8/21/11	F	0	143	< 1.7	0	0	0	0	1.7
V010	CDV-SMA-3	SS25605	WT_IPWAT-11-11261	8/21/11	UF	—	—	—	—	—	—	—	—
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11295	8/13/11	F	0	496	3.4	0	0	0	0	29.3
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11297	8/13/11	UF	—	—	—	—	—	—	—	—
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11296	9/1/11	F	0	267	< 1.7	0	0	0	0	28.1
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11298	9/1/11	UF	—	—	—	—	—	—	—	—
F001	F-SMA-2	SS092401	WT_IPWAT-11-11401	8/15/11	F	0	866	2.9	0	0	0	0	72.5
F001	F-SMA-2	SS092401	WT_IPWAT-11-11403	8/15/11	UF	—	—	—	—	—	—	—	—
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11337	9/1/11	F	0	1380	< 1.7	0	0	0	0	6.5
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11339	9/1/11	UF	—	—	—	—	—	—	—	—
I002	PT-SMA-1	SS2657	WT_IPWAT-11-11341	9/1/11	F	0	6550	< 1.7	109	0	0	0	174
I002	PT-SMA-1	SS2657	WT_IPWAT-11-11343	9/1/11	UF	—	—	—	—	—	—	—	—
I004A	PT-SMA-2.01	SS094814	WT_IPWAT-11-11421	8/18/11	F	0	467	1.8	0	0	0	0	3.1
I004A	PT-SMA-2.01	SS094814	WT_IPWAT-11-11423	8/18/11	UF	—	—	—	—	—	—	—	—
W001	W-SMA-1	SS25203	WT_IPWAT-11-11349	8/3/11	F	0	918	< 1.7	0	0	0	0	3.8
W001	W-SMA-1	SS25203	WT_IPWAT-11-11351	8/3/11	UF	—	—	—	—	—	—	—	—
W001	W-SMA-1	SS25203	WT_IPWAT-11-11350	9/9/11	F	0	1410	< 1.7	0	0	0	0	3.6
W001	W-SMA-1	SS25203	WT_IPWAT-11-11352	9/9/11	UF	—	—	—	—	—	—	—	—
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11449	8/3/11	F	0	448	< 1.7	0	0	0	0	3.1
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11451	8/3/11	UF	—	—	—	—	—	—	—	—
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11450	9/1/11	F	0	503	< 1.7	0	0	0	0	9.7

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APPENDIX C

Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11452	9/1/11	UF	—	—	—	—	—	—	—	—
W003	W-SMA-2.05	SS093903	WT_IPWAT-11-11409	8/21/11	F	0	1240	< 1.7	0	0	0	0	2
W003	W-SMA-2.05	SS093903	WT_IPWAT-11-11411	8/21/11	UF	—	—	—	—	—	—	—	—
W012A	W-SMA-8.71	SS093912	WT_IPWAT-11-11413	8/21/11	F	0	111	< 1.7	0	0	0	0	2.9
W012A	W-SMA-8.71	SS093912	WT_IPWAT-11-11415	8/21/11	UF	—	—	—	—	—	—	—	—
W017	W-SMA-9.9	SS103934	WT_IPWAT-11-11445	8/21/11	F	0	962	< 1.7	0	0	0	0	1.1
W017	W-SMA-9.9	SS103934	WT_IPWAT-11-11447	8/21/11	UF	—	—	—	—	—	—	—	—
W018	W-SMA-10	SS25245	WT_IPWAT-11-11353	8/21/11	F	0	512	< 1.7	0	0	0	0	1.1
W018	W-SMA-10	SS25245	WT_IPWAT-11-11355	8/21/11	UF	—	—	—	—	—	—	—	—
W019	W-SMA-11.7	SS103935	WT_IPWAT-11-13851	9/1/11	F	0	1020	< 1.7	0	0	0	0	1.5
W019	W-SMA-11.7	SS103935	WT_IPWAT-11-13849	9/1/11	UF	—	—	—	—	—	—	—	—
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11453	7/25/11	F	0	28.6	< 1.7	155	0	0	0	42.6
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11455	7/25/11	UF	—	—	—	—	—	—	—	—
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11454	8/18/11	F	0	652	3.6	0	0	0	0	20
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11456	8/18/11	UF	—	—	—	—	—	—	—	—
W022	W-SMA-15.1	SS093927	WT_IPWAT-11-11373	9/1/11	F	0	645	< 1.7	0	0	0	0	1.1
W022	W-SMA-15.1	SS093927	WT_IPWAT-11-11375	9/1/11	UF	—	—	—	—	—	—	—	—
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11573	7/24/11	F	0	61.6	< 1.7	0	0	0	0	6.2
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11575	7/24/11	UF	—	—	—	—	—	—	—	—
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11574	9/4/11	F	0	62.8	< 1.7	0	0	0	0	5.4
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11576	9/4/11	UF	—	—	—	—	—	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Ag	Al	As	B	Cd	Co	Cr	Cu
						EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.8	EPA 200.8
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11537	8/21/11	F	0	322	< 1.7	0	0	0	0	8
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11539	8/21/11	UF	—	—	—	—	—	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
R002	R-SMA-1	SS00	WT_IPLAP-11-10570	7/2/11	F	—	3.8	0.73	0	—	0	0	45.3
R002	R-SMA-1	SS00	WT_IPLAP-11-10572	7/2/11	UF	< 0.066	—	—	—	0	—	—	—
R002	R-SMA-1	SS00	WT_IPLAP-11-10571	8/19/11	F	—	2.1	1.3	0	—	0	0	0
R002	R-SMA-1	SS00	WT_IPLAP-11-10573	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
R003	R-SMA-1.95	SS092701	WT_IPLAP-11-10454	8/19/11	F	—	1	0.84	0	—	0	0	0
R003	R-SMA-1.95	SS092701	WT_IPLAP-11-10456	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10514	8/21/11	F	—	1.4	< 0.5	0	—	0	0	0
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10516	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
P002	ACID-SMA-2	SS100105	WT_IPLAP-11-10546	8/19/11	F	—	1.2	1.9	0	—	0	0	0
P002	ACID-SMA-2	SS100105	WT_IPLAP-11-10548	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10466	7/30/11	F	—	2.6	2.2	0	—	0	0	55.7
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10468	7/30/11	UF	< 0.066	—	—	—	0	—	—	—
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10467	8/14/11	F	—	10	17.7	0	—	0	0	186
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10469	8/14/11	UF	< 0.066	—	—	—	0	—	—	—
L003	LA-SMA-1	SS081003	WT_IPLAP-11-10366	8/19/11	F	—	5.9	42.1	0	—	0	0	36.2
L003	LA-SMA-1	SS081003	WT_IPLAP-11-10368	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10370	7/28/11	F	—	2.2	0.57	0	—	0	0	162
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10372	7/28/11	UF	< 0.066	—	—	—	0	—	—	—
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10371	8/19/11	F	—	1.6	< 0.5	0	—	0	0	0
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10373	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10470	7/30/11	F	—	9.8	0.62	0	—	0	0	109

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10472	7/30/11	UF	< 0.066	—	—	—	0	—	—	—
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10471	8/28/11	F	—	2.1	< 0.5	0	—	0	0	112
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10473	8/28/11	UF	< 0.066	—	—	—	0	—	—	—
L007	LA-SMA-2.3	SS081024	WT_IPLAP-11-10410	8/21/11	F	—	1.4	1.5	0	—	0	0	0
L007	LA-SMA-2.3	SS081024	WT_IPLAP-11-10412	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10534	8/19/11	F	—	1.2	< 0.5	0	—	0	0	32.7
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10536	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10535	9/4/11	F	—	0.61	< 0.5	0	—	0	0	31.6
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10537	9/4/11	UF	< 0.066	—	—	—	0	—	—	—
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10478	8/3/11	F	—	1	< 0.5	0	—	0	0	0
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10480	8/3/11	UF	< 0.066	—	—	—	0	—	—	—
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10479	8/19/11	F	—	1.3	< 0.5	0	—	0	0	0
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10481	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10482	8/4/11	F	—	0.64	< 0.5	0	—	0	0	21.8
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10484	8/4/11	UF	< 0.066	—	—	—	0	—	—	—
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10483	9/7/11	F	—	1.7	0.63	0	—	0	0	0
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10485	9/7/11	UF	< 0.066	—	—	—	0	—	—	—
L015	LA-SMA-5.31	SS081012	WT_IPLAP-11-10378	8/19/11	F	—	1.9	1.4	0	—	0	0	0
L015	LA-SMA-5.31	SS081012	WT_IPLAP-11-10380	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
L016	LA-SMA-5.33	SS081013	WT_IPLAP-11-10382	8/21/11	F	—	1.2	< 0.5	0	—	0	0	0
L016	LA-SMA-5.33	SS081013	WT_IPLAP-11-10384	8/21/11	UF	< 0.066	—	—	—	0	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
L019	LA-SMA-5.91	SS091019	WT_IPLAP-11-10502	9/7/11	F	—	1.3	< 0.5	0	—	0	0	0
L019	LA-SMA-5.91	SS091019	WT_IPLAP-11-10504	9/7/11	UF	< 0.066	—	—	—	0	—	—	—
L030A	LA-SMA-10.12	SS091021	WT_IPLAP-11-10510	9/1/11	F	—	1.3	1.6	0	—	0	0	0
L030A	LA-SMA-10.12	SS091021	WT_IPLAP-11-10512	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
D001	DP-SMA-0.3	SS0375	WT_IPLAP-11-10588	8/19/11	F	—	2.2	< 0.5	0	—	0	0	0
D001	DP-SMA-0.3	SS0375	WT_IPLAP-11-10590	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
D007	DP-SMA-3	SS111906	WT_IPLAP-11-25755	7/29/11	F	—	2.6	1.5	0	—	0	0	0
D007	DP-SMA-3	SS111906	WT_IPLAP-11-25756	7/29/11	UF	< 0.066	—	—	—	0	—	—	—
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10616	7/28/11	F	—	2.7	0.55	0	—	0	0	74.4
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10618	7/28/11	UF	< 0.066	—	—	—	0	—	—	—
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10617	8/15/11	F	—	1.8	< 0.5	0	—	0	0	52.9
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10619	8/15/11	UF	< 0.066	—	—	—	0	—	—	—
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10656	8/4/11	F	—	1.1	< 0.5	0	—	0	0	0
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10658	8/4/11	UF	< 0.066	—	—	—	0	—	—	—
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10657	9/4/11	F	—	0.84	< 0.5	0	—	0	0	0
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10659	9/4/11	UF	< 0.066	—	—	—	0	—	—	—
S003	S-SMA-2	SS101626	WT_IPSAN-11-10672	7/28/11	F	—	2.5	< 0.5	0	—	0	0	62.6
S003	S-SMA-2	SS101626	WT_IPSAN-11-10674	7/28/11	UF	< 0.066	—	—	—	0	—	—	—
S003	S-SMA-2	SS101626	WT_IPSAN-11-10673	8/13/11	F	—	2.1	0.72	0	—	0	0	23.8
S003	S-SMA-2	SS101626	WT_IPSAN-11-10675	8/13/11	UF	< 0.066	—	—	—	0	—	—	—
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10620	8/5/11	F	—	2	< 0.5	0	—	0	0	29.3

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10622	8/5/11	UF	< 0.066	—	—	—	0	—	—	—
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10621	9/7/11	F	—	1.7	0.95	0	—	0	0	21.4
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10623	9/7/11	UF	< 0.066	—	—	—	0	—	—	—
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10632	8/4/11	F	—	2.1	1.5	0	—	0	0	26.5
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10634	8/4/11	UF	< 0.066	—	—	—	0	—	—	—
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10680	7/28/11	F	—	5.7	1.5	0	—	0	0	147
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10682	7/28/11	UF	< 0.066	—	—	—	0	—	—	—
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10681	8/13/11	F	—	2	0.61	0	—	0	0	70.7
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10683	8/13/11	UF	< 0.066	—	—	—	0	—	—	—
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10660	8/2/11	F	—	1.3	0.53	0	—	0	0	0
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10662	8/2/11	UF	< 0.066	—	—	—	0	—	—	—
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10661	9/1/11	F	—	< 0.5	< 0.5	0	—	0	0	0
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10663	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
S016	S-SMA-6	SS1248	WT_IPSAN-11-10688	7/30/11	F	—	3.5	5.9	0	—	0	0	33.5
S016	S-SMA-6	SS1248	WT_IPSAN-11-10690	7/30/11	UF	0.17	—	—	—	0	—	—	—
S016	S-SMA-6	SS1248	WT_IPSAN-11-10689	8/19/11	F	—	4.3	0.91	0	—	0	0	0
S016	S-SMA-6	SS1248	WT_IPSAN-11-10691	8/19/11	UF	0.13	—	—	—	0	—	—	—
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10939	9/1/11	F	—	1.8	3.6	0	—	0	0	27.1
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10941	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10855	9/7/11	F	—	1.9	0.96	0	—	0	0	21.6
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10857	9/7/11	UF	< 0.066	—	—	—	0	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
M001	M-SMA-1	SS198	WT_IPMOR-11-10859	8/19/11	F	—	1	< 0.5	0	—	0	0	0
M001	M-SMA-1	SS198	WT_IPMOR-11-10861	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
M001	M-SMA-1	SS198	WT_IPMOR-11-10860	9/7/11	F	—	0.65	< 0.5	0	—	0	0	0
M001	M-SMA-1	SS198	WT_IPMOR-11-10862	9/7/11	UF	< 0.066	—	—	—	0	—	—	—
M002B	M-SMA-1.22	SS091228	WT_IPMOR-11-10967	9/15/11	F	—	2.4	2.1	0	—	0	0	28.4
M002B	M-SMA-1.22	SS091228	WT_IPMOR-11-10969	9/15/11	UF	< 0.066	—	—	—	0	—	—	—
M006	M-SMA-4	SS1987	WT_IPMOR-11-10899	8/19/11	F	—	0.96	< 0.5	0	—	0	0	0
M006	M-SMA-4	SS1987	WT_IPMOR-11-10901	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13866	8/27/11	F	—	0.73	< 0.5	0	—	0	0	0
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13865	8/27/11	UF	< 0.066	—	—	—	0	—	—	—
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13868	9/15/11	F	—	< 0.73	< 0.5	0	—	0	0	0
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13867	9/15/11	UF	< 0.066	—	—	—	0	—	—	—
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11027	7/30/11	F	—	3.6	1.9	0	—	0	0	55
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11029	7/30/11	UF	< 0.066	—	—	—	0	—	—	—
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11028	8/19/11	F	—	1.1	1.1	0	—	0	0	0
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11030	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
T002	T-SMA-1	SS093713	WT_IPMOR-11-10983	7/30/11	F	—	2.8	2.1	0	—	0	0	324
T002	T-SMA-1	SS093713	WT_IPMOR-11-10985	7/30/11	UF	< 0.066	—	—	—	0	—	—	—
T002	T-SMA-1	SS093713	WT_IPMOR-11-10984	8/15/11	F	—	1.4	0.58	0	—	0	0	103
T002	T-SMA-1	SS093713	WT_IPMOR-11-10986	8/15/11	UF	< 0.066	—	—	—	0	—	—	—
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11031	8/4/11	F	—	0.55	< 0.5	0	—	0	0	0

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11033	8/4/11	UF	< 0.066	—	—	—	0	—	—	—
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11032	8/20/11	F	—	1.3	0.83	0	—	0	0	0
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11034	8/20/11	UF	< 0.66	—	—	—	0	—	—	—
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11087	8/21/11	F	—	1.6	0.92	0	—	0	0	0
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11089	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11088	9/15/11	F	—	0.69	< 0.5	0	—	0	0	0
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11090	9/15/11	UF	< 0.066	—	—	—	0	—	—	—
E004	2M-SMA-1.44	SS093205	WT_IPPAJ-11-11091	8/21/11	F	—	1.1	0.8	0	—	0	0	31.2
E004	2M-SMA-1.44	SS093205	WT_IPPAJ-11-11093	8/21/11	UF	< 0.66	—	—	—	0	—	—	—
E005	2M-SMA-1.45	SS103215	WT_IPPAJ-11-11199	9/7/11	F	—	2.5	< 0.5	0	—	0	0	0
E005	2M-SMA-1.45	SS103215	WT_IPPAJ-11-11201	9/7/11	UF	0.19	—	—	—	0	—	—	—
E007	2M-SMA-1.65	SS093209	WT_IPPAJ-11-11095	8/21/11	F	—	0.96	0.66	0	—	0	0	0
E007	2M-SMA-1.65	SS093209	WT_IPPAJ-11-11097	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
E008	2M-SMA-1.67	SS103216	WT_IPPAJ-11-11203	9/15/11	F	—	0.77	< 0.5	0	—	0	0	0
E008	2M-SMA-1.67	SS103216	WT_IPPAJ-11-11205	9/15/11	UF	< 0.066	—	—	—	0	—	—	—
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11039	8/3/11	F	—	1.6	0.52	0	—	0	0	0
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11041	8/3/11	UF	< 0.066	—	—	—	0	—	—	—
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11040	9/9/11	F	—	< 0.5	0.56	0	—	0	0	23.2
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11042	9/9/11	UF	< 0.066	—	—	—	0	—	—	—
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11207	8/4/11	F	—	3.7	0.51	0	—	0	0	71.8
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11209	8/4/11	UF	< 0.066	—	—	—	0	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11208	9/9/11	F	—	1.2	< 0.5	0	—	0	0	28.7
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11210	9/9/11	UF	< 0.066	—	—	—	0	—	—	—
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11227	7/28/11	F	—	1.3	< 0.5	0	—	0	0	140
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11229	7/28/11	UF	< 0.066	—	—	—	0	—	—	—
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11228	9/4/11	F	—	0.55	< 0.5	0	—	0	0	72.3
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11230	9/4/11	UF	< 0.066	—	—	—	0	—	—	—
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11147	8/13/11	F	—	2.1	0.63	0	—	0	0	97.2
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11149	8/13/11	UF	< 0.066	—	—	—	0	—	—	—
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11148	9/4/11	F	—	1.2	< 0.5	0	—	0	0	90.1
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11150	9/4/11	UF	< 0.066	—	—	—	0	—	—	—
J003	PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11139	8/19/11	F	—	0.61	0.84	0	—	0	0	0
J003	PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11141	8/19/11	UF	< 0.066	—	—	—	0	—	—	—
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11127	8/21/11	F	—	1.5	2.2	0	—	0	0	50.6
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11129	8/21/11	UF	< 0.66	—	—	—	0	—	—	—
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11128	9/7/11	F	—	1.4	< 0.5	0	—	0	0	59.4
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11130	9/7/11	UF	< 0.066	—	—	—	0	—	—	—
J016	PJ-SMA-13.7	SS102336	WT_IPPAJ-11-11195	9/1/11	F	—	0.89	< 0.5	0	—	0	0	0
J016	PJ-SMA-13.7	SS102336	WT_IPPAJ-11-11197	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11119	7/28/11	F	—	0.77	< 0.5	0	—	0	0	21.6
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11121	7/28/11	UF	< 0.066	—	—	—	0	—	—	—
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11120	8/18/11	F	—	1.5	< 0.5	0	—	0	0	28.5

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11122	8/18/11	UF	< 0.066	—	—	—	0	—	—	—
J023	PJ-SMA-16	SS092325	WT_IPPAJ-11-11123	7/30/11	F	—	0.96	< 0.5	0	—	0	0	0
J023	PJ-SMA-16	SS092325	WT_IPPAJ-11-11125	7/30/11	UF	< 0.066	—	—	—	0	—	—	—
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11179	7/29/11	F	—	2	< 0.5	0	—	0	0	27.9
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11181	7/29/11	UF	< 0.066	—	—	—	0	—	—	—
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11151	8/5/11	F	—	1.6	< 0.5	0	—	0	0	0
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11153	8/5/11	UF	< 0.066	—	—	—	0	—	—	—
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11152	8/26/11	F	—	1	< 0.5	0	—	0	0	0
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11154	8/26/11	UF	< 0.066	—	—	—	0	—	—	—
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11131	8/21/11	F	—	1.4	< 0.5	0	—	0	0	0
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11133	8/21/11	UF	< 0.66	—	—	—	0	—	—	—
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11132	9/9/11	F	—	1.9	1.1	0	—	0	0	0
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11134	9/9/11	UF	< 0.066	—	—	—	0	—	—	—
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11155	8/21/11	F	—	1.1	0.73	0	—	0	0	0
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11157	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
V004	CDV-SMA-1.45	SS090406	WT_IPWAT-11-11303	8/21/11	F	—	< 0.5	0.55	0	—	0	0	0
V004	CDV-SMA-1.45	SS090406	WT_IPWAT-11-11305	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11279	8/21/11	F	—	< 0.84	< 0.5	0	—	0	0	0
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11281	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11307	9/1/11	F	—	1	< 0.5	0	—	0	0	0
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11309	9/1/11	UF	< 0.066	—	—	—	0	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
V010	CDV-SMA-3	SS25605	WT_IPWAT-11-11259	8/21/11	F	—	1.3	0.82	0	—	0	0	0
V010	CDV-SMA-3	SS25605	WT_IPWAT-11-11261	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11295	8/13/11	F	—	1.2	6.6	0	—	0	0	0
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11297	8/13/11	UF	0.95	—	—	—	0	—	—	—
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11296	9/1/11	F	—	1.3	7.3	0	—	0	0	0
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11298	9/1/11	UF	1.6	—	—	—	0	—	—	—
F001	F-SMA-2	SS092401	WT_IPWAT-11-11401	8/15/11	F	—	2.6	2.5	0	—	0	0	0
F001	F-SMA-2	SS092401	WT_IPWAT-11-11403	8/15/11	UF	< 0.066	—	—	—	0	—	—	—
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11337	9/1/11	F	—	1.7	0.74	0	—	0	0	0
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11339	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
I002	PT-SMA-1	SS2657	WT_IPWAT-11-11341	9/1/11	F	—	5.2	4.2	0	—	0	0	75.9
I002	PT-SMA-1	SS2657	WT_IPWAT-11-11343	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
I004A	PT-SMA-2.01	SS094814	WT_IPWAT-11-11421	8/18/11	F	—	1.8	0.65	0	—	0	0	0
I004A	PT-SMA-2.01	SS094814	WT_IPWAT-11-11423	8/18/11	UF	< 0.066	—	—	—	0	—	—	—
W001	W-SMA-1	SS25203	WT_IPWAT-11-11349	8/3/11	F	—	1.6	1.1	0	—	0	0	0
W001	W-SMA-1	SS25203	WT_IPWAT-11-11351	8/3/11	UF	< 0.066	—	—	—	0	—	—	—
W001	W-SMA-1	SS25203	WT_IPWAT-11-11350	9/9/11	F	—	1.6	0.68	0	—	0	0	0
W001	W-SMA-1	SS25203	WT_IPWAT-11-11352	9/9/11	UF	< 0.066	—	—	—	0	—	—	—
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11449	8/3/11	F	—	0.91	< 0.5	0	—	0	0	49.3
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11451	8/3/11	UF	< 0.066	—	—	—	0	—	—	—
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11450	9/1/11	F	—	0.83	< 0.5	0	—	0	0	0

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11452	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
W003	W-SMA-2.05	SS093903	WT_IPWAT-11-11409	8/21/11	F	—	< 1.4	0.63	0	—	0	0	0
W003	W-SMA-2.05	SS093903	WT_IPWAT-11-11411	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
W012A	W-SMA-8.71	SS093912	WT_IPWAT-11-11413	8/21/11	F	—	0.92	1.2	0	—	0	0	28.3
W012A	W-SMA-8.71	SS093912	WT_IPWAT-11-11415	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
W017	W-SMA-9.9	SS103934	WT_IPWAT-11-11445	8/21/11	F	—	< 1.2	0.95	0	—	0	0	0
W017	W-SMA-9.9	SS103934	WT_IPWAT-11-11447	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
W018	W-SMA-10	SS25245	WT_IPWAT-11-11353	8/21/11	F	—	< 0.72	< 0.5	0	—	0	0	0
W018	W-SMA-10	SS25245	WT_IPWAT-11-11355	8/21/11	UF	< 0.066	—	—	—	0	—	—	—
W019	W-SMA-11.7	SS103935	WT_IPWAT-11-13851	9/1/11	F	—	1.8	< 0.5	0	—	0	0	0
W019	W-SMA-11.7	SS103935	WT_IPWAT-11-13849	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11453	7/25/11	F	—	2.5	< 0.5	0	—	0	0	55.9
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11455	7/25/11	UF	< 0.066	—	—	—	0	—	—	—
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11454	8/18/11	F	—	1.5	0.5	0	—	0	0	24.4
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11456	8/18/11	UF	< 0.066	—	—	—	0	—	—	—
W022	W-SMA-15.1	SS093927	WT_IPWAT-11-11373	9/1/11	F	—	0.87	< 0.5	0	—	0	0	0
W022	W-SMA-15.1	SS093927	WT_IPWAT-11-11375	9/1/11	UF	< 0.066	—	—	—	0	—	—	—
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11573	7/24/11	F	—	1.8	< 0.5	0	—	0	0	0
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11575	7/24/11	UF	< 0.066	—	—	—	0	—	—	—
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11574	9/4/11	F	—	1.4	< 0.5	0	—	0	0	0
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11576	9/4/11	UF	< 0.066	—	—	—	0	—	—	—

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Table C-7, cont'd. Baseline Monitoring Results for Metals

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Hg	Ni	Pb	Sb	Se	Tl	V	Zn
						EPA 245.2	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.7	EPA 200.7
						ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11537	8/21/11	F	—	2.8	0.6	0	—	0	0	0
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11539	8/21/11	UF	< 0.066	—	—	—	0	—	—	—

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"<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-8. Baseline Monitoring Results for General Inorganics

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	CN (wad)	LANL Validation Qualifier
						SM 4500	
						mg/L	
R002	R-SMA-1	SS00	WT_IPLAP-11-10572	7/2/2011	UF	0	J
R002	R-SMA-1	SS00	WT_IPLAP-11-10573	8/19/2011	UF	0	U
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10516	8/21/2011	UF	0	U
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10468	7/30/2011	UF	0	U
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10469	8/14/2011	UF	0	U
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10372	7/28/2011	UF	0	U
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10472	7/30/2011	UF	0	U
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10473	8/28/2011	UF	0	UJ
L007	LA-SMA-2.3	SS081024	WT_IPLAP-11-10412	8/21/2011	UF	0	J
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10536	8/19/2011	UF	0	U
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10537	9/4/2011	UF	0	U
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10480	8/3/2011	UF	0	U
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10481	8/19/2011	UF	0	U
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10484	8/4/2011	UF	0	U
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10485	9/7/2011	UF	0.0135	—
L015	LA-SMA-5.31	SS081012	WT_IPLAP-11-10380	8/19/2011	UF	0	U
L016	LA-SMA-5.33	SS081013	WT_IPLAP-11-10384	8/21/2011	UF	0	U
L019	LA-SMA-5.91	SS091019	WT_IPLAP-11-10504	9/7/2011	UF	0	U
L030A	LA-SMA-10.12	SS091021	WT_IPLAP-11-10512	9/1/2011	UF	0	UJ
D007	DP-SMA-3	SS111906	WT_IPLAP-11-25756	7/29/2011	UF	0	J
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10618	7/28/2011	UF	0	U
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10619	8/15/2011	UF	0	U
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10658	8/4/2011	UF	0	U
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10659	9/4/2011	UF	0	UJ
S003	S-SMA-2	SS101626	WT_IPSAN-11-10674	7/28/2011	UF	0	U
S003	S-SMA-2	SS101626	WT_IPSAN-11-10675	8/13/2011	UF	0	U
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10622	8/5/2011	UF	0	U
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10623	9/7/2011	UF	0	U
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10634	8/4/2011	UF	0	U
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10682	7/28/2011	UF	0	J
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10683	8/13/2011	UF	0	U

UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.
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Table C-8, cont'd. Baseline Monitoring Results for General Inorganics

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	CN (wad)	LANL Validation Qualifier
						SM 4500	
						mg/L	
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10662	8/2/2011	UF	0	U
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10663	9/1/2011	UF	0	U
S016	S-SMA-6	SS1248	WT_IPSAN-11-10690	7/30/2011	UF	0.0179	—
S016	S-SMA-6	SS1248	WT_IPSAN-11-10691	8/19/2011	UF	0	J-
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10941	9/1/2011	UF	0	U
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10857	9/7/2011	UF	0	U
M001	M-SMA-1	SS198	WT_IPMOR-11-10861	8/19/2011	UF	0	UJ
M001	M-SMA-1	SS198	WT_IPMOR-11-10862	9/7/2011	UF	0	U
M002B	M-SMA-1.22	SS091228	WT_IPMOR-11-10969	9/15/2011	UF	0	U
M006	M-SMA-4	SS1987	WT_IPMOR-11-10901	8/19/2011	UF	0	UJ
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13865	8/27/2011	UF	0	U
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13867	9/15/2011	UF	0	U
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11029	7/30/2011	UF	0	—
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11030	8/19/2011	UF	0	UJ
T002	T-SMA-1	SS093713	WT_IPMOR-11-10985	7/30/2011	UF	0	U
T002	T-SMA-1	SS093713	WT_IPMOR-11-10986	8/15/2011	UF	0	U
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11033	8/4/2011	UF	0	U
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11034	8/20/2011	UF	0	U
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11089	8/21/2011	UF	0	J
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11090	9/15/2011	UF	0	U
E004	2M-SMA-1.44	SS093205	WT_IPPAJ-11-11093	8/21/2011	UF	0	U
E005	2M-SMA-1.45	SS103215	WT_IPPAJ-11-11201	9/7/2011	UF	0	U
E007	2M-SMA-1.65	SS093209	WT_IPPAJ-11-11097	8/21/2011	UF	0	U
E008	2M-SMA-1.67	SS103216	WT_IPPAJ-11-11205	9/15/2011	UF	0	U
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11041	8/3/2011	UF	0	U
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11042	9/9/2011	UF	0	U
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11209	8/4/2011	UF	0	U
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11210	9/9/2011	UF	0	U
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11229	7/28/2011	UF	0	U
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11230	9/4/2011	UF	0	UJ
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11149	8/13/2011	UF	0	J
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11150	9/4/2011	UF	0	UJ
J003	PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11141	8/19/2011	UF	0.0274	J-
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11129	8/21/2011	UF	0	U
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11130	9/7/2011	UF	0	J

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Table C-8, cont'd. Baseline Monitoring Results for General Inorganics

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	CN (wad)	LANL Validation Qualifier
						SM 4500	
						mg/L	
J016	PJ-SMA-13.7	SS102336	WT_IPPAJ-11-11197	9/1/2011	UF	0	U
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11121	7/28/2011	UF	0	U
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11122	8/18/2011	UF	0	U
J023	PJ-SMA-16	SS092325	WT_IPPAJ-11-11125	7/30/2011	UF	0	U
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11181	7/29/2011	UF	0	U
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11153	8/5/2011	UF	0	U
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11154	8/26/2011	UF	0	U
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11133	8/21/2011	UF	< 0.0162	U
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11134	9/9/2011	UF	0	UJ
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11157	8/21/2011	UF	0	UJ
V004	CDV-SMA-1.45	SS090406	WT_IPWAT-11-11305	8/21/2011	UF	0	U
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11281	8/21/2011	UF	0	UJ
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11309	9/1/2011	UF	0	U
V010	CDV-SMA-3	SS25605	WT_IPWAT-11-11261	8/21/2011	UF	0	J
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11297	8/13/2011	UF	0	U
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11298	9/1/2011	UF	0	U
F001	F-SMA-2	SS092401	WT_IPWAT-11-11403	8/15/2011	UF	0	J
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11339	9/1/2011	UF	0	J
I002	PT-SMA-1	SS2657	WT_IPWAT-11-11343	9/1/2011	UF	0	U
I004A	PT-SMA-2.01	SS094814	WT_IPWAT-11-11423	8/18/2011	UF	0	J
W001	W-SMA-1	SS25203	WT_IPWAT-11-11351	8/3/2011	UF	0	U
W001	W-SMA-1	SS25203	WT_IPWAT-11-11352	9/9/2011	UF	0	UJ
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11451	8/3/2011	UF	0	U
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11452	9/1/2011	UF	0	UJ
W003	W-SMA-2.05	SS093903	WT_IPWAT-11-11411	8/21/2011	UF	0	UJ
W012A	W-SMA-8.71	SS093912	WT_IPWAT-11-11415	8/21/2011	UF	0	J
W017	W-SMA-9.9	SS103934	WT_IPWAT-11-11447	8/21/2011	UF	0	UJ
W018	W-SMA-10	SS25245	WT_IPWAT-11-11355	8/21/2011	UF	0	J-
W019	W-SMA-11.7	SS103935	WT_IPWAT-11-13849	9/1/2011	UF	0	U
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11455	7/25/2011	UF	0	U
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11456	8/18/2011	UF	0	U
W022	W-SMA-15.1	SS093927	WT_IPWAT-11-11375	9/1/2011	UF	0	U
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11575	7/24/2011	UF	0	U
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11539	8/21/2011	UF	0	UJ

UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.
 "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

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UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.
"<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-9. Baseline Monitoring Results for Radioactivity

Permitted Feature	Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Gross Alpha	Ra-226+228
						EPA:900	EPA:903 / EPA:904
						pCi/L	pCi/L
R002	R-SMA-1	SS00	WT_IPLAP-11-10572	7/2/11	UF	21.1	2.39
R002	R-SMA-1	SS00	WT_IPLAP-11-10573	8/19/11	UF	51.1	6.42
R003	R-SMA-1.95	SS092701	WT_IPLAP-11-10456	8/19/11	UF	27.4	4.53
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10516	8/21/11	UF	5.89	3.06
P002	ACID-SMA-2	SS100105	WT_IPLAP-11-10548	8/19/11	UF	40.5	2.19
D001	DP-SMA-0.3	SS0375	WT_IPLAP-11-10590	8/19/11	UF	65.5	68.3
D007	DP-SMA-3	SS111906	WT_IPLAP-11-25756	7/29/11	UF	174	27.5
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10468	7/30/11	UF	< 0.125	< 0.762
L001	LA-SMA-0.85	SS091010	WT_IPLAP-11-10469	8/14/11	UF	9.32	2.65
L003	LA-SMA-1	SS081003	WT_IPLAP-11-10368	8/19/11	UF	1800	14
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10372	7/28/11	UF	32.6	2
L004	LA-SMA-1.1	SS081004	WT_IPLAP-11-10373	8/19/11	UF	21	2.56
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10472	7/30/11	UF	5.71	< 0.75
L005	LA-SMA-1.25	SS091011	WT_IPLAP-11-10473	8/28/11	UF	7.25	1.72
L007	LA-SMA-2.3	SS081024	WT_IPLAP-11-10412	8/21/11	UF	74.7	8.05
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10536	8/19/11	UF	111	4
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10537	9/4/11	UF	9.63	< 1.18
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10480	8/3/11	UF	19.7	< 0.663
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10481	8/19/11	UF	< 3.12	1.71
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10484	8/4/11	UF	11.5	2.17
L014	LA-SMA-5.35	SS091014	WT_IPLAP-11-10485	9/7/11	UF	874	43.9

UF = Unfiltered; "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-9 , cont'd. Baseline Monitoring Results for Radioactivity

Permitted Feature	Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Gross Alpha	Ra-226+228
						EPA:900	EPA:903 / EPA:904
						pCi/L	pCi/L
L015	LA-SMA-5.31	SS081012	WT_IPLAP-11-10380	8/19/11	UF	86	6.33
L016	LA-SMA-5.33	SS081013	WT_IPLAP-11-10384	8/21/11	UF	100	3.4
L019	LA-SMA-5.91	SS091019	WT_IPLAP-11-10504	9/7/11	UF	92.6	6.83
L030A	LA-SMA-10.12	SS091021	WT_IPLAP-11-10512	9/1/11	UF	23	2.05
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10618	7/28/11	UF	28.1	1.84
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10619	8/15/11	UF	8.22	< 1.55
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10658	8/4/11	UF	17.1	3.27
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10659	9/4/11	UF	< 3.04	< 0.414
S003	S-SMA-2	SS101626	WT_IPSAN-11-10674	7/28/11	UF	29	1.96
S003	S-SMA-2	SS101626	WT_IPSAN-11-10675	8/13/11	UF	3.88	< 0.916
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10622	8/5/11	UF	4.13	< 1.31
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10623	9/7/11	UF	4.48	< 0.931
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10634	8/4/11	UF	62.5	5.28
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10682	7/28/11	UF	9.16	1.58
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10683	8/13/11	UF	3.38	3.78
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10662	8/2/11	UF	4.56	2.18
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10663	9/1/11	UF	3.98	< 1.47
S016	S-SMA-6	SS1248	WT_IPSAN-11-10690	7/30/11	UF	6140	44.3
S016	S-SMA-6	SS1248	WT_IPSAN-11-10691	8/19/11	UF	867	22.4
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10941	9/1/11	UF	13.4	< 1.32
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10857	9/7/11	UF	15.2	1.84
M001	M-SMA-1	SS198	WT_IPMOR-11-10861	8/19/11	UF	35	7.84
M001	M-SMA-1	SS198	WT_IPMOR-11-10862	9/7/11	UF	18.1	1.99

UF = Unfiltered; "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-9 , cont'd. Baseline Monitoring Results for Radioactivity

Permitted Feature	Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Gross Alpha	Ra-226+228
						EPA:900	EPA:903 / EPA:904
						pCi/L	pCi/L
M002B	M-SMA-1.22	SS091228	WT_IPMOR-11-10969	9/15/11	UF	< 1.67	< 1.1
M006	M-SMA-4	SS1987	WT_IPMOR-11-10901	8/19/11	UF	< 1.9	70.3
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13865	8/27/11	UF	7.22	3.73
M012A	M-SMA-10.01	SS091229	WT_IPMOR-11-13867	9/15/11	UF	14.5	< 0.616
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11029	7/30/11	UF	7.36	< 1.13
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11030	8/19/11	UF	27.4	< 1.12
T002	T-SMA-1	SS093713	WT_IPMOR-11-10985	7/30/11	UF	6.42	< 0.782
T002	T-SMA-1	SS093713	WT_IPMOR-11-10986	8/15/11	UF	3.22	4.94
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11033	8/4/11	UF	6.88	1.91
E001	2M-SMA-1	SS2432	WT_IPPAJ-11-11034	8/20/11	UF	18.3	6.82
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11089	8/21/11	UF	51.8	4.88
E002	2M-SMA-1.42	SS093203	WT_IPPAJ-11-11090	9/15/11	UF	7.66	< 0.916
E004	2M-SMA-1.44	SS093205	WT_IPPAJ-11-11093	8/21/11	UF	21.1	3.17
E005	2M-SMA-1.45	SS103215	WT_IPPAJ-11-11201	9/7/11	UF	398	5.25
E007	2M-SMA-1.65	SS093209	WT_IPPAJ-11-11097	8/21/11	UF	220	17.2
E008	2M-SMA-1.67	SS103216	WT_IPPAJ-11-11205	9/15/11	UF	6.41	< 0.378
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11041	8/3/11	UF	5.1	< 0.0366
E009	2M-SMA-1.7	SS2438	WT_IPPAJ-11-11042	9/9/11	UF	< 1.74	< 0.558
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11209	8/4/11	UF	6.77	< 1.1
E010	2M-SMA-1.8	SS103217	WT_IPPAJ-11-11210	9/9/11	UF	5	< 0.175
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11229	7/28/11	UF	4.78	< 1.24
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11230	9/4/11	UF	3.64	1.41
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11149	8/13/11	UF	8.76	2.63

UF = Unfiltered; "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-9 , cont'd. Baseline Monitoring Results for Radioactivity

Permitted Feature	Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Gross Alpha	Ra-226+228
						EPA:900	EPA:903 / EPA:904
						pCi/L	pCi/L
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11150	9/4/11	UF	5.09	2.43
J003	PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11141	8/19/11	UF	65.9	3.67
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11129	8/21/11	UF	38.4	2.2
J006	PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11130	9/7/11	UF	43.5	3.94
J016	PJ-SMA-13.7	SS102336	WT_IPPAJ-11-11197	9/1/11	UF	52.6	2.61
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11121	7/28/11	UF	7.91	< 0.352
J022	PJ-SMA-14.8	SS092324	WT_IPPAJ-11-11122	8/18/11	UF	3.81	< 0.316
J023	PJ-SMA-16	SS092325	WT_IPPAJ-11-11125	7/30/11	UF	6.74	< 0.928
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11181	7/29/11	UF	8	< 1.35
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11153	8/5/11	UF	2.72	< 0.464
J028	STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11154	8/26/11	UF	8	< 0.385
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11133	8/21/11	UF	28.8	1.68
J030	STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11134	9/9/11	UF	4.4	2.01
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11157	8/21/11	UF	24.5	2.39
V004	CDV-SMA-1.45	SS090406	WT_IPWAT-11-11305	8/21/11	UF	17.8	< 1.23
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11281	8/21/11	UF	231	3.94
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11309	9/1/11	UF	10.3	< 0.66
V010	CDV-SMA-3	SS25605	WT_IPWAT-11-11261	8/21/11	UF	33.4	2.41
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11297	8/13/11	UF	199	8.5
V012A	CDV-SMA-6.02	SS090411	WT_IPWAT-11-11298	9/1/11	UF	147	5.94
F001	F-SMA-2	SS092401	WT_IPWAT-11-11403	8/15/11	UF	140	10.2
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11339	9/1/11	UF	79.5	2.84
I002	PT-SMA-1	SS2657	WT_IPWAT-11-11343	9/1/11	UF	104	< 1.45

UF = Unfiltered; "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-9 , cont'd. Baseline Monitoring Results for Radioactivity

Permitted Feature	Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Gross Alpha	Ra-226+228
						EPA:900	EPA:903 / EPA:904
						pCi/L	pCi/L
I004A	PT-SMA-2.01	SS094814	WT_IPWAT-11-11423	8/18/11	UF	295	13.3
W001	W-SMA-1	SS25203	WT_IPWAT-11-11351	8/3/11	UF	50.7	2.59
W001	W-SMA-1	SS25203	WT_IPWAT-11-11352	9/9/11	UF	6.78	< 1.05
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11451	8/3/11	UF	22	1.28
W002	W-SMA-1.5	SS103928	WT_IPWAT-11-11452	9/1/11	UF	6.72	1.92
W003	W-SMA-2.05	SS093903	WT_IPWAT-11-11411	8/21/11	UF	13.3	2.23
W012A	W-SMA-8.71	SS093912	WT_IPWAT-11-11415	8/21/11	UF	15.8	< 1.66
W017	W-SMA-9.9	SS103934	WT_IPWAT-11-11447	8/21/11	UF	95.9	9.82
W018	W-SMA-10	SS25245	WT_IPWAT-11-11355	8/21/11	UF	106	8.79
W019	W-SMA-11.7	SS103935	WT_IPWAT-11-13849	9/1/11	UF	38.1	2.16
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11455	7/25/11	UF	5.96	< 0.258
W021	W-SMA-14.1	SS103936	WT_IPWAT-11-11456	8/18/11	UF	5.68	< 1.39
W022	W-SMA-15.1	SS093927	WT_IPWAT-11-11375	9/1/11	UF	33.2	3.45
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11575	7/24/11	UF	31.8	5.7
A004	A-SMA-2.7	SS090205	WT_IPANC-11-11576	9/4/11	UF	25.4	< 1.46
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11539	8/21/11	UF	8.34	5.94

UF = Unfiltered; "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

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UF = Unfiltered; "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

Table C-10 . Baseline Monitoring Results for Total PCBs

Permitted Feature	Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Total PCBs
						EPA:1668A
						ug/L
P001	ACID-SMA-1.05	SS090102	WT_IPLAP-11-10516	8/21/2011	UF	0
P002	ACID-SMA-2	SS100105	WT_IPLAP-11-10548	8/19/2011	UF	0.0822
L003	LA-SMA-1	SS081003	WT_IPLAP-11-10368	8/19/2011	UF	< 0.111 R
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10536	8/19/2011	UF	0.0625
L010	LA-SMA-4.1	SS101035	WT_IPLAP-11-10537	9/4/2011	UF	0.0081
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10480	8/3/2011	UF	0.0337
L012A	LA-SMA-5.02	SS091013	WT_IPLAP-11-10481	8/19/2011	UF	0.108
S001	S-SMA-0.25	SS091601	WT_IPSAN-11-10619	8/15/2011	UF	0.0502
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10658	8/4/2011	UF	0.114
S002	S-SMA-1.1	SS101622	WT_IPSAN-11-10659	9/4/2011	UF	0.0987
S003	S-SMA-2	SS101626	WT_IPSAN-11-10674	7/28/2011	UF	0.193
S003	S-SMA-2	SS101626	WT_IPSAN-11-10675	8/13/2011	UF	0.141
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10622	8/5/2011	UF	0.385
S003A	S-SMA-2.01	SS091602	WT_IPSAN-11-10623	9/7/2011	UF	1.9
S005B	S-SMA-3.53	SS091605	WT_IPSAN-11-10634	8/4/2011	UF	0.702
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10682	7/28/2011	UF	0.0244
S006	S-SMA-3.6	SS12255	WT_IPSAN-11-10683	8/13/2011	UF	0.00235
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10662	8/2/2011	UF	0.000974
S011	S-SMA-4.1	SS101623	WT_IPSAN-11-10663	9/1/2011	UF	0.00367
S016	S-SMA-6	SS1248	WT_IPSAN-11-10690	7/30/2011	UF	4.59
S016	S-SMA-6	SS1248	WT_IPSAN-11-10691	8/19/2011	UF	1.05
C002	CDB-SMA-0.25	SS091311	WT_IPMOR-11-10941	9/1/2011	UF	0.00635
C004	CDB-SMA-1	SS2185	WT_IPMOR-11-10857	9/7/2011	UF	0.0233
M001	M-SMA-1	SS198	WT_IPMOR-11-10861	8/19/2011	UF	0.0752
M001	M-SMA-1	SS198	WT_IPMOR-11-10862	9/7/2011	UF	0.0281
M006	M-SMA-4	SS1987	WT_IPMOR-11-10901	8/19/2011	UF	0.0578
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11029	7/30/2011	UF	0.00188
M013	M-SMA-10.3	SS20025	WT_IPMOR-11-11030	8/19/2011	UF	0.00988
T002	T-SMA-1	SS093713	WT_IPMOR-11-10985	7/30/2011	UF	0.0132
T002	T-SMA-1	SS093713	WT_IPMOR-11-10986	8/15/2011	UF	0.061

UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.
 "<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.
 "R" indicates that the sample result has been rejected due to serious quality control issues.

Table C-10 , cont'd. Baseline Monitoring Results for Total PCBs

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	Total PCBs
						EPA:1668A
						ug/L
E012	2M-SMA-2	SS103219	WT_IPPAJ-11-11230	9/4/2011	UF	0.0652
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11149	8/13/2011	UF	0.00707
E013	2M-SMA-2.2	SS093214	WT_IPPAJ-11-11150	9/4/2011	UF	0.0102
J027	PJ-SMA-20	SS092332	WT_IPPAJ-11-11181	7/29/2011	UF	0
J031	STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11157	8/21/2011	UF	0.00669
V008	CDV-SMA-2.41	SS090407	WT_IPWAT-11-11281	8/21/2011	UF	0.0241
I001	PT-SMA-0.5	SS26565	WT_IPWAT-11-11339	9/1/2011	UF	0
Q002A	CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11539	8/21/2011	UF	0.00922

UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.

"<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

"R" indicates that the sample result has been rejected due to serious quality control issues.

Table C-11. Baseline Monitoring Results for Detected Organic Analytes

Permitted Feature	SMA Number	Station Name	Sample ID	Sample Date	F/UF	RDX
						EPA:8321 / EPA:8330
						ug/L
V009	CDV-SMA-2.5	SS090420	WT_IPWAT-11-11309	01-Sep-11	UF	7.31
F001	F-SMA-2	SS092401	WT_IPWAT-11-11403	15-Aug-11	UF	8.38

UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.

"<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

"R" indicates that the sample result has been rejected due to serious quality control issues.

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UF = Unfiltered; "0" indicates that the result for the analyte was less than the applicable MQL value.

"<" indicates that the analyte was not detected in the sample; the reported value is the laboratory reporting limit.

"R" indicates that the sample result has been rejected due to serious quality control issues.

Table C-12. Baseline Monitoring Results greater than MTALs

Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	MTAL	Units
R-SMA-1	SS00	WT_IPLAP-11-10570	7/2/11	F	Zn	45.3	—	—	42	ug/L
R-SMA-1	SS00	WT_IPLAP-11-10571	8/19/11	F	Al	2010	E	—	750	ug/L
ACID-SMA-2	SS100105	WT_IPLAP-11-10546	8/19/11	F	Al	789	N	J+	750	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10466	7/30/11	F	Al	1310	N	J+	750	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10466	7/30/11	F	Cu	18.9	E	—	4.3	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10466	7/30/11	F	Zn	55.7	—	—	42	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10467	8/14/11	F	Al	4170	—	—	750	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10467	8/14/11	F	Cu	47.1	—	—	4.3	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10467	8/14/11	F	Pb	17.7	—	—	17	ug/L
LA-SMA-0.85	SS091010	WT_IPLAP-11-10467	8/14/11	F	Zn	186	—	—	42	ug/L
LA-SMA-1	SS081003	WT_IPLAP-11-10366	8/19/11	F	Al	6510	N	J+	750	ug/L
LA-SMA-1	SS081003	WT_IPLAP-11-10366	8/19/11	F	Cu	7.8	—	—	4.3	ug/L
LA-SMA-1	SS081003	WT_IPLAP-11-10366	8/19/11	F	Pb	42.1	—	—	17	ug/L
LA-SMA-1.1	SS081004	WT_IPLAP-11-10370	7/28/11	F	Cu	26.6	E	—	4.3	ug/L
LA-SMA-1.1	SS081004	WT_IPLAP-11-10370	7/28/11	F	Zn	162	—	—	42	ug/L
LA-SMA-1.1	SS081004	WT_IPLAP-11-10371	8/19/11	F	Cu	6.3	—	—	4.3	ug/L
LA-SMA-1.25	SS091011	WT_IPLAP-11-10470	7/30/11	F	Cu	13.8	E	—	4.3	ug/L
LA-SMA-1.25	SS091011	WT_IPLAP-11-10470	7/30/11	F	Zn	109	—	—	42	ug/L
LA-SMA-1.25	SS091011	WT_IPLAP-11-10471	8/28/11	F	Cu	33.3	E	—	4.3	ug/L
LA-SMA-1.25	SS091011	WT_IPLAP-11-10471	8/28/11	F	Zn	112	—	—	42	ug/L
LA-SMA-4.1	SS101035	WT_IPLAP-11-10534	8/19/11	F	Cu	6.7	—	—	4.3	ug/L
LA-SMA-4.1	SS101035	WT_IPLAP-11-10535	9/4/11	F	Cu	5.3	—	—	4.3	ug/L
LA-SMA-5.02	SS091013	WT_IPLAP-11-10479	8/19/11	F	Cu	4.9	—	—	4.3	ug/L

F = Filtered; UF = Unfiltered

Table C-12, cont'd. Baseline Monitoring Results greater than MTALs

Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	MTAL	Units
LA-SMA-5.35	SS091014	WT_IPLAP-11-10482	8/4/11	F	Cu	5.9	—	—	4.3	ug/L
LA-SMA-5.31	SS081012	WT_IPLAP-11-10378	8/19/11	F	Cu	5.5	EN	J-	4.3	ug/L
DP-SMA-3	SS111906	WT_IPLAP-11-25755	7/29/11	F	Al	1870	N	J+	750	ug/L
DP-SMA-3	SS111906	WT_IPLAP-11-25755	7/29/11	F	Cu	5.5	—	—	4.3	ug/L
S-SMA-0.25	SS091601	WT_IPSAN-11-10616	7/28/11	F	Cu	9.7	—	—	4.3	ug/L
S-SMA-0.25	SS091601	WT_IPSAN-11-10616	7/28/11	F	Zn	74.4	—	—	42	ug/L
S-SMA-0.25	SS091601	WT_IPSAN-11-10617	8/15/11	F	Cu	10.9	—	—	4.3	ug/L
S-SMA-0.25	SS091601	WT_IPSAN-11-10617	8/15/11	F	Zn	52.9	—	—	42	ug/L
S-SMA-1.1	SS101622	WT_IPSAN-11-10656	8/4/11	F	Cu	5.2	—	—	4.3	ug/L
S-SMA-1.1	SS101622	WT_IPSAN-11-10657	9/4/11	F	Cu	5.8	—	—	4.3	ug/L
S-SMA-2	SS101626	WT_IPSAN-11-10672	7/28/11	F	Cu	8.3	—	—	4.3	ug/L
S-SMA-2	SS101626	WT_IPSAN-11-10672	7/28/11	F	Zn	62.6	—	—	42	ug/L
S-SMA-2	SS101626	WT_IPSAN-11-10673	8/13/11	F	Cu	5.8	—	—	4.3	ug/L
S-SMA-2.01	SS091602	WT_IPSAN-11-10620	8/5/11	F	Cu	10.9	—	—	4.3	ug/L
S-SMA-2.01	SS091602	WT_IPSAN-11-10621	9/7/11	F	Cu	10.7	—	—	4.3	ug/L
S-SMA-3.53	SS091605	WT_IPSAN-11-10632	8/4/11	F	Al	1490	—	—	750	ug/L
S-SMA-3.53	SS091605	WT_IPSAN-11-10632	8/4/11	F	Cu	9.6	—	—	4.3	ug/L
S-SMA-3.6	SS12255	WT_IPSAN-11-10680	7/28/11	F	Cu	40.5	—	—	4.3	ug/L
S-SMA-3.6	SS12255	WT_IPSAN-11-10680	7/28/11	F	Zn	147	—	—	42	ug/L
S-SMA-3.6	SS12255	WT_IPSAN-11-10681	8/13/11	F	Cu	10.9	—	—	4.3	ug/L
S-SMA-3.6	SS12255	WT_IPSAN-11-10681	8/13/11	F	Zn	70.7	—	—	42	ug/L
S-SMA-6	SS1248	WT_IPSAN-11-10688	7/30/11	F	Al	1470	—	J+	750	ug/L
S-SMA-6	SS1248	WT_IPSAN-11-10688	7/30/11	F	Cu	8.6	—	—	4.3	ug/L
S-SMA-6	SS1248	WT_IPSAN-11-10689	8/19/11	F	Cu	6.1	—	—	4.3	ug/L
CDB-SMA-0.25	SS091311	WT_IPMOR-11-10939	9/1/11	F	Al	2310	—	—	750	ug/L

F = Filtered; UF = Unfiltered

Table C-12, cont'd. Baseline Monitoring Results greater than MTALs

Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	MTAL	Units
CDB-SMA-0.25	SS091311	WT_IPMOR-11-10939	9/1/11	F	Cu	11.2	—	—	4.3	ug/L
CDB-SMA-1	SS2185	WT_IPMOR-11-10855	9/7/11	F	Al	1120	—	—	750	ug/L
CDB-SMA-1	SS2185	WT_IPMOR-11-10855	9/7/11	F	Cu	8	—	—	4.3	ug/L
M-SMA-1.22	SS091228	WT_IPMOR-11-10967	9/15/11	F	Al	904	—	—	750	ug/L
M-SMA-1.22	SS091228	WT_IPMOR-11-10967	9/15/11	F	Cu	6	—	—	4.3	ug/L
M-SMA-4	SS1987	WT_IPMOR-11-10899	8/19/11	F	Cu	6	—	—	4.3	ug/L
M-SMA-10.01	SS091229	WT_IPMOR-11-13866	8/27/11	F	Cu	16	—	—	4.3	ug/L
M-SMA-10.01	SS091229	WT_IPMOR-11-13868	9/15/11	F	Cu	6.5	—	—	4.3	ug/L
M-SMA-10.3	SS20025	WT_IPMOR-11-11027	7/30/11	F	Al	2500	—	—	750	ug/L
M-SMA-10.3	SS20025	WT_IPMOR-11-11027	7/30/11	F	Cu	4.7	—	—	4.3	ug/L
M-SMA-10.3	SS20025	WT_IPMOR-11-11027	7/30/11	F	Zn	55	—	—	42	ug/L
M-SMA-10.3	SS20025	WT_IPMOR-11-11028	8/19/11	F	Al	873	N	J+	750	ug/L
T-SMA-1	SS093713	WT_IPMOR-11-10983	7/30/11	F	Cu	21.2	—	—	4.3	ug/L
T-SMA-1	SS093713	WT_IPMOR-11-10983	7/30/11	F	Zn	324	—	—	42	ug/L
T-SMA-1	SS093713	WT_IPMOR-11-10984	8/15/11	F	Cu	12.6	—	—	4.3	ug/L
T-SMA-1	SS093713	WT_IPMOR-11-10984	8/15/11	F	Zn	103	—	—	42	ug/L
2M-SMA-1	SS2432	WT_IPPAJ-11-11032	8/20/11	F	Al	1200	N*	J+	750	ug/L
2M-SMA-1.42	SS093203	WT_IPPAJ-11-11087	8/21/11	F	Al	794	E	—	750	ug/L
2M-SMA-1.44	SS093205	WT_IPPAJ-11-11091	8/21/11	F	Cu	31.5	—	—	4.3	ug/L
2M-SMA-1.7	SS2438	WT_IPPAJ-11-11039	8/3/11	F	Cu	11.4	—	—	4.3	ug/L
2M-SMA-1.8	SS103217	WT_IPPAJ-11-11207	8/4/11	F	Cu	13.2	—	—	4.3	ug/L
2M-SMA-1.8	SS103217	WT_IPPAJ-11-11207	8/4/11	F	Zn	71.8	—	—	42	ug/L
2M-SMA-1.8	SS103217	WT_IPPAJ-11-11208	9/9/11	F	Cu	6.6	—	—	4.3	ug/L
2M-SMA-2	SS103219	WT_IPPAJ-11-11227	7/28/11	F	Cu	14.9	—	—	4.3	ug/L
2M-SMA-2	SS103219	WT_IPPAJ-11-11227	7/28/11	F	Zn	140	—	J	42	ug/L

F = Filtered; UF = Unfiltered

Table C-12, cont'd. Baseline Monitoring Results greater than MTALs

Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	MTAL	Units
2M-SMA-2	SS103219	WT_IPPAJ-11-11228	9/4/11	F	Cu	5.5	—	—	4.3	ug/L
2M-SMA-2	SS103219	WT_IPPAJ-11-11228	9/4/11	F	Zn	72.3	—	—	42	ug/L
2M-SMA-2.2	SS093214	WT_IPPAJ-11-11147	8/13/11	F	Cu	16.4	—	—	4.3	ug/L
2M-SMA-2.2	SS093214	WT_IPPAJ-11-11147	8/13/11	F	Zn	97.2	—	—	42	ug/L
2M-SMA-2.2	SS093214	WT_IPPAJ-11-11148	9/4/11	F	Cu	10.1	—	—	4.3	ug/L
2M-SMA-2.2	SS093214	WT_IPPAJ-11-11148	9/4/11	F	Zn	90.1	—	—	42	ug/L
PJ-SMA-3.05	SS092326	WT_IPPAJ-11-11141	8/19/11	UF	CN(wad)	0.0274	H	J-	0.022	mg/L
PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11127	8/21/11	F	Cu	8.2	—	—	4.3	ug/L
PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11127	8/21/11	F	Zn	50.6	—	—	42	ug/L
PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11128	9/7/11	F	Cu	11.1	E	J	4.3	ug/L
PJ-SMA-5.1	SS092306	WT_IPPAJ-11-11128	9/7/11	F	Zn	59.4	—	—	42	ug/L
PJ-SMA-20	SS092332	WT_IPPAJ-11-11179	7/29/11	F	Cu	8.1	—	—	4.3	ug/L
STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11151	8/5/11	F	Cu	5.7	—	—	4.3	ug/L
STRM-SMA-1.05	SS093001	WT_IPPAJ-11-11152	8/26/11	F	Cu	6.9	—	—	4.3	ug/L
STRM-SMA-4.2	SS093006	WT_IPPAJ-11-11132	9/9/11	F	Al	2330	—	—	750	ug/L
STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11155	8/21/11	F	Al	1170	EN	J+	750	ug/L
CDV-SMA-6.02	SS090411	WT_IPWAT-11-11295	8/13/11	F	Cu	29.3	—	—	4.3	ug/L
CDV-SMA-6.02	SS090411	WT_IPWAT-11-11296	9/1/11	F	Cu	28.1	—	—	4.3	ug/L
CDV-SMA-6.02	SS090411	WT_IPWAT-11-11298	9/1/11	UF	Hg	1.6	—	—	1.4	ug/L
F-SMA-2	SS092401	WT_IPWAT-11-11401	8/15/11	F	Al	866	—	—	750	ug/L
F-SMA-2	SS092401	WT_IPWAT-11-11401	8/15/11	F	Cu	72.5	E	—	4.3	ug/L
PT-SMA-0.5	SS26565	WT_IPWAT-11-11337	9/1/11	F	Al	1380	—	J+	750	ug/L
PT-SMA-0.5	SS26565	WT_IPWAT-11-11337	9/1/11	F	Cu	6.5	—	—	4.3	ug/L
PT-SMA-1	SS2657	WT_IPWAT-11-11341	9/1/11	F	Al	6550	—	J+	750	ug/L
PT-SMA-1	SS2657	WT_IPWAT-11-11341	9/1/11	F	Cu	174	—	—	4.3	ug/L

F = Filtered; UF = Unfiltered

Table C-12, cont'd. Baseline Monitoring Results greater than MTALs

Site Monitoring Area	Station ID	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	MTAL	Units
PT-SMA-1	SS2657	WT_IPWAT-11-11341	9/1/11	F	Zn	75.9	—	—	42	ug/L
W-SMA-1	SS25203	WT_IPWAT-11-11349	8/3/11	F	Al	918	—	—	750	ug/L
W-SMA-1	SS25203	WT_IPWAT-11-11350	9/9/11	F	Al	1410	N	J+	750	ug/L
W-SMA-1.5	SS103928	WT_IPWAT-11-11449	8/3/11	F	Zn	49.3	—	—	42	ug/L
W-SMA-1.5	SS103928	WT_IPWAT-11-11450	9/1/11	F	Cu	9.7	—	—	4.3	ug/L
W-SMA-2.05	SS093903	WT_IPWAT-11-11409	8/21/11	F	Al	1240	—	—	750	ug/L
W-SMA-9.9	SS103934	WT_IPWAT-11-11445	8/21/11	F	Al	962	—	—	750	ug/L
W-SMA-11.7	SS103935	WT_IPWAT-11-13851	9/1/11	F	Al	1020	—	—	750	ug/L
W-SMA-14.1	SS103936	WT_IPWAT-11-11453	7/25/11	F	Cu	42.6	—	—	4.3	ug/L
W-SMA-14.1	SS103936	WT_IPWAT-11-11453	7/25/11	F	Zn	55.9	—	—	42	ug/L
W-SMA-14.1	SS103936	WT_IPWAT-11-11454	8/18/11	F	Cu	20	—	—	4.3	ug/L
A-SMA-2.7	SS090205	WT_IPANC-11-11573	7/24/11	F	Cu	6.2	—	J	4.3	ug/L
A-SMA-2.7	SS090205	WT_IPANC-11-11574	9/4/11	F	Cu	5.4	—	—	4.3	ug/L
CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11537	8/21/11	F	Cu	8	—	—	4.3	ug/L

F = Filtered; UF = Unfiltered

Table C-13. Baseline Monitoring Results greater than ATALs

Site Monitoring Area	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	Geomean	Maximum of ATAL or MQL		Units
R-SMA-1	WT_IPLAP-11-10572	02-Jul-11	UF	Gross alpha	21.1			32.8	15	ATAL	pCi/L
R-SMA-1	WT_IPLAP-11-10573	19-Aug-11	UF	Gross alpha	51.1						pCi/L
R-SMA-1.95	WT_IPLAP-11-10456	19-Aug-11	UF	Gross alpha	27.4			27.4	15	ATAL	pCi/L
ACID-SMA-2	WT_IPLAP-11-10548	19-Aug-11	UF	Gross alpha	40.5			40.5	15	ATAL	pCi/L
ACID-SMA-2	WT_IPLAP-11-10548	19-Aug-11	UF	Total PCB	0.0822			0.0822	0.00064	ATAL	ug/L
DP-SMA-0.3	WT_IPLAP-11-10590	19-Aug-11	UF	Gross alpha	65.5			65.5	15	ATAL	pCi/L
DP-SMA-0.3	WT_IPLAP-11-10590	19-Aug-11	UF	Ra-226 + Ra-228	68.3			68.3	30	ATAL	pCi/L
DP-SMA-3	WT_IPLAP-11-25756	29-Jul-11	UF	Gross alpha	174			174	15	ATAL	pCi/L
LA-SMA-1	WT_IPLAP-11-10368	19-Aug-11	UF	Gross alpha	1800			1800	15	ATAL	pCi/L
LA-SMA-1.1	WT_IPLAP-11-10372	28-Jul-11	UF	Gross alpha	32.6			26.2	15	ATAL	pCi/L
LA-SMA-1.1	WT_IPLAP-11-10373	19-Aug-11	UF	Gross alpha	21			26.2	15	ATAL	pCi/L
LA-SMA-2.3	WT_IPLAP-11-10412	21-Aug-11	UF	Gross alpha	74.7			74.7	15	ATAL	pCi/L
LA-SMA-4.1	WT_IPLAP-11-10536	19-Aug-11	UF	Gross alpha	111			32.7	15	ATAL	pCi/L
LA-SMA-4.1	WT_IPLAP-11-10537	04-Sep-11	UF	Gross alpha	9.63						pCi/L
LA-SMA-4.1	WT_IPLAP-11-10536	19-Aug-11	UF	Total PCB	0.0625			0.0225	0.00064	ATAL	ug/L
LA-SMA-4.1	WT_IPLAP-11-10537	04-Sep-11	UF	Total PCB	0.0081						ug/L
LA-SMA-5.02	WT_IPLAP-11-10480	03-Aug-11	UF	Total PCB	0.0337			0.0603	0.00064	ATAL	ug/L
LA-SMA-5.02	WT_IPLAP-11-10481	19-Aug-11	UF	Total PCB	0.108						ug/L
LA-SMA-5.35	WT_IPLAP-11-10484	04-Aug-11	UF	Gross alpha	11.5			100	15	ATAL	pCi/L
LA-SMA-5.35	WT_IPLAP-11-10485	07-Sep-11	UF	Gross alpha	874						pCi/L
LA-SMA-5.31	WT_IPLAP-11-10380	19-Aug-11	UF	Gross alpha	86			86	15	ATAL	pCi/L

F = Filtered; UF = Unfiltered

Table C-13, cont'd. Baseline Monitoring Results greater than ATALs

Site Monitoring Area	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	Geomean	Maximum of ATAL or MQL		Units
LA-SMA-5.33	WT_IPLAP-11-10384	21-Aug-11	UF	Gross alpha	100			100	15	ATAL	pCi/L
LA-SMA-5.91	WT_IPLAP-11-10504	07-Sep-11	UF	Gross alpha	92.6			92.6	15	ATAL	pCi/L
LA-SMA-10.12	WT_IPLAP-11-10512	01-Sep-11	UF	Gross alpha	23			23	15	ATAL	pCi/L
S-SMA-0.25	WT_IPSAN-11-10618	28-Jul-11	UF	Gross alpha	28.1			15.2	15	ATAL	pCi/L
S-SMA-0.25	WT_IPSAN-11-10619	15-Aug-11	UF	Gross alpha	8.22						pCi/L
S-SMA-0.25	WT_IPSAN-11-10619	15-Aug-11	UF	Total PCB	0.0502			0.0502	0.00064	ATAL	ug/L
S-SMA-1.1	WT_IPSAN-11-10658	04-Aug-11	UF	Total PCB	0.114			0.106	0.00064	ATAL	ug/L
S-SMA-1.1	WT_IPSAN-11-10659	04-Sep-11	UF	Total PCB	0.0987						ug/L
S-SMA-2	WT_IPSAN-11-10674	28-Jul-11	UF	Total PCB	0.193			0.165	0.00064	ATAL	ug/L
S-SMA-2	WT_IPSAN-11-10675	13-Aug-11	UF	Total PCB	0.141						ug/L
S-SMA-2.01	WT_IPSAN-11-10622	05-Aug-11	UF	Total PCB	0.385			0.855	0.00064	ATAL	ug/L
S-SMA-2.01	WT_IPSAN-11-10623	07-Sep-11	UF	Total PCB	1.9						ug/L
S-SMA-3.53	WT_IPSAN-11-10634	04-Aug-11	UF	Gross alpha	62.5			62.5	15	ATAL	pCi/L
S-SMA-3.53	WT_IPSAN-11-10634	04-Aug-11	UF	Total PCB	0.702			0.702	0.00064	ATAL	ug/L
S-SMA-3.6	WT_IPSAN-11-10682	28-Jul-11	UF	Total PCB	0.0244						0.00757
S-SMA-3.6	WT_IPSAN-11-10683	13-Aug-11	UF	Total PCB	0.00235						ug/L
S-SMA-4.1	WT_IPSAN-11-10662	02-Aug-11	UF	Total PCB	0.000974			0.00189	0.00064	ATAL	ug/L
S-SMA-4.1	WT_IPSAN-11-10663	01-Sep-11	UF	Total PCB	0.00367						ug/L
S-SMA-6	WT_IPSAN-11-10690	30-Jul-11	UF	Cyanide(wad)	0.0179			0.0102	0.01	MQL	mg/L
S-SMA-6	WT_IPSAN-11-10691	19-Aug-11	UF	Cyanide(wad)	0.00577	H	J-				mg/L
S-SMA-6	WT_IPSAN-11-10690	30-Jul-11	UF	Gross alpha	6140			2310	15	ATAL	pCi/L
S-SMA-6	WT_IPSAN-11-10691	19-Aug-11	UF	Gross alpha	867						pCi/L

F = Filtered; UF = Unfiltered

Table C-13, cont'd. Baseline Monitoring Results greater than ATALs

Site Monitoring Area	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	Geomean	Maximum of ATAL or MQL		Units
S-SMA-6	WT_IPSAN-11-10690	30-Jul-11	UF	Ra-226 + Ra-228	44.3			31.5	30	ATAL	pCi/L
S-SMA-6	WT_IPSAN-11-10691	19-Aug-11	UF	Ra-226 + Ra-228	22.4						pCi/L
S-SMA-6	WT_IPSAN-11-10690	30-Jul-11	UF	Total PCB	4.59			2.2	0.00064	ATAL	ug/L
S-SMA-6	WT_IPSAN-11-10691	19-Aug-11	UF	Total PCB	1.05						ug/L
CDB-SMA-0.25	WT_IPMOR-11-10941	01-Sep-11	UF	Total PCB	0.00635			0.00635	0.00064	ATAL	ug/L
CDB-SMA-1	WT_IPMOR-11-10857	07-Sep-11	UF	Gross alpha	15.2			15.2	15	ATAL	pCi/L
CDB-SMA-1	WT_IPMOR-11-10857	07-Sep-11	UF	Total PCB	0.0233			0.0233	0.00064	ATAL	ug/L
M-SMA-1	WT_IPMOR-11-10861	19-Aug-11	UF	Gross alpha	35			25.2	15	ATAL	pCi/L
M-SMA-1	WT_IPMOR-11-10862	07-Sep-11	UF	Gross alpha	18.1						pCi/L
M-SMA-1	WT_IPMOR-11-10861	19-Aug-11	UF	Total PCB	0.0752			0.046	0.00064	ATAL	ug/L
M-SMA-1	WT_IPMOR-11-10862	07-Sep-11	UF	Total PCB	0.0281						ug/L
M-SMA-4	WT_IPMOR-11-10901	19-Aug-11	UF	Ra-226 + Ra-228	70.3			70.3	30	ATAL	pCi/L
M-SMA-4	WT_IPMOR-11-10901	19-Aug-11	UF	Total PCB	0.0578			0.0578	0.00064	ATAL	ug/L
M-SMA-10.3	WT_IPMOR-11-11029	30-Jul-11	UF	Total PCB	0.00188			0.00431	0.00064	ATAL	ug/L
M-SMA-10.3	WT_IPMOR-11-11030	19-Aug-11	UF	Total PCB	0.00988						ug/L
T-SMA-1	WT_IPMOR-11-10985	30-Jul-11	UF	Total PCB	0.0132			0.0284	0.00064	ATAL	ug/L
T-SMA-1	WT_IPMOR-11-10986	15-Aug-11	UF	Total PCB	0.061						ug/L
2M-SMA-1.42	WT_IPPAJ-11-11089	21-Aug-11	UF	Gross alpha	51.8			19.9	15	ATAL	pCi/L
2M-SMA-1.42	WT_IPPAJ-11-11090	15-Sep-11	UF	Gross alpha	7.66						pCi/L
2M-SMA-1.44	WT_IPPAJ-11-11093	21-Aug-11	UF	Gross alpha	21.1			21.1	15	ATAL	pCi/L
2M-SMA-1.45	WT_IPPAJ-11-11201	07-Sep-11	UF	Gross alpha	398			398	15	ATAL	pCi/L
2M-SMA-1.65	WT_IPPAJ-11-11097	21-Aug-11	UF	Gross alpha	220			220	15	ATAL	pCi/L
2M-SMA-2	WT_IPPAJ-11-11230	04-Sep-11	UF	Total PCB	0.0652			0.0652	0.00064	ATAL	ug/L

F = Filtered; UF = Unfiltered

Table C-13, cont'd. Baseline Monitoring Results greater than ATALs

Site Monitoring Area	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	Geomean	Maximum of ATAL or MQL		Units
2M-SMA-2.2	WT_IPPAJ-11-11149	13-Aug-11	UF	Total PCB	0.00707			0.00849	0.00064	ATAL	ug/L
2M-SMA-2.2	WT_IPPAJ-11-11150	04-Sep-11	UF	Total PCB	0.0102						ug/L
PJ-SMA-3.05	WT_IPPAJ-11-11141	19-Aug-11	UF	Cyanide(wad)	0.0274	H	J-	0.0274	0.01	MQL	mg/L
PJ-SMA-3.05	WT_IPPAJ-11-11141	19-Aug-11	UF	Gross alpha	65.9			65.9	15	ATAL	pCi/L
PJ-SMA-5.1	WT_IPPAJ-11-11129	21-Aug-11	UF	Gross alpha	38.4			40.9	15	ATAL	pCi/L
PJ-SMA-5.1	WT_IPPAJ-11-11130	07-Sep-11	UF	Gross alpha	43.5						pCi/L
PJ-SMA-13.7	WT_IPPAJ-11-11197	01-Sep-11	UF	Gross alpha	52.6			52.6	15	ATAL	pCi/L
STRM-SMA-5.05	WT_IPPAJ-11-11157	21-Aug-11	UF	Gross alpha	24.5			24.5	15	ATAL	pCi/L
STRM-SMA-5.05	WT_IPPAJ-11-11157	21-Aug-11	UF	Total PCB	0.00669			0.00669	0.00064	ATAL	ug/L
CDV-SMA-1.45	WT_IPWAT-11-11305	21-Aug-11	UF	Gross alpha	17.8			17.8	15	ATAL	pCi/L
CDV-SMA-2.41	WT_IPWAT-11-11281	21-Aug-11	UF	Gross alpha	231			231	15	ATAL	pCi/L
CDV-SMA-2.41	WT_IPWAT-11-11281	21-Aug-11	UF	Total PCB	0.0241			0.0241	0.00064	ATAL	ug/L
CDV-SMA-3	WT_IPWAT-11-11261	21-Aug-11	UF	Gross alpha	33.4			33.4	15	ATAL	pCi/L
CDV-SMA-6.02	WT_IPWAT-11-11297	13-Aug-11	UF	Gross alpha	199			171	15	ATAL	pCi/L
CDV-SMA-6.02	WT_IPWAT-11-11298	01-Sep-11	UF	Gross alpha	147						pCi/L
CDV-SMA-6.02	WT_IPWAT-11-11297	13-Aug-11	UF	Mercury	0.95			1.23	0.77	ATAL	ug/L
CDV-SMA-6.02	WT_IPWAT-11-11298	01-Sep-11	UF	Mercury	1.6						ug/L
F-SMA-2	WT_IPWAT-11-11403	15-Aug-11	UF	Gross alpha	140			140	15	ATAL	pCi/L
PT-SMA-0.5	WT_IPWAT-11-11339	01-Sep-11	UF	Gross alpha	79.5			79.5	15	ATAL	pCi/L
PT-SMA-1	WT_IPWAT-11-11343	01-Sep-11	UF	Gross alpha	104			104	15	ATAL	pCi/L
PT-SMA-2.01	WT_IPWAT-11-11423	18-Aug-11	UF	Gross alpha	295			295	15	ATAL	pCi/L
W-SMA-1	WT_IPWAT-11-11351	03-Aug-11	UF	Gross alpha	50.7			18.5	15	ATAL	pCi/L
W-SMA-1	WT_IPWAT-11-11352	09-Sep-11	UF	Gross alpha	6.78						pCi/L

F = Filtered; UF = Unfiltered

Table C-13, cont'd. Baseline Monitoring Results greater than ATALs

Site Monitoring Area	Sample ID	Sample Date	F/UF	Analyte	Result	Lab Qualifier	LANL Validation Qualifier	Geomean	Maximum of ATAL or MQL		Units
W-SMA-8.71	WT_IPWAT-11-11415	21-Aug-11	UF	Gross alpha	15.8			15.8	15	ATAL	pCi/L
W-SMA-9.9	WT_IPWAT-11-11447	21-Aug-11	UF	Gross alpha	95.9			95.9	15	ATAL	pCi/L
W-SMA-10	WT_IPWAT-11-11355	21-Aug-11	UF	Gross alpha	106			106	15	ATAL	pCi/L
W-SMA-11.7	WT_IPWAT-11-13849	01-Sep-11	UF	Gross alpha	38.1			38.1	15	ATAL	pCi/L
W-SMA-15.1	WT_IPWAT-11-11375	01-Sep-11	UF	Gross alpha	33.2			33.2	15	ATAL	pCi/L
A-SMA-2.7	WT_IPANC-11-11575	24-Jul-11	UF	Gross alpha	31.8			28.4	15	ATAL	pCi/L
A-SMA-2.7	WT_IPANC-11-11576	04-Sep-11	UF	Gross alpha	25.4						pCi/L
CHQ-SMA-1.02	WT_IPCHA-11-11539	21-Aug-11	UF	Total PCB	0.00922			0.00922	0.00064	ATAL	ug/L

F = Filtered; UF = Unfiltered

APPENDIX C, Part III

Corrective Action Monitoring Results

[RESERVED]

NPDES Permit No. NM0030759
Individual Permit Annual Report
January 1 – December 31, 2011

APPENDIX D

Baseline Control Measures

LA-UR-12-10341

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APPENDIX D

Table D-1. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
R-SMA-0.5	R00101010014	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	—	9/26/2011	—	—
	R00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	R00102020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	R00103030004	Berm	Log Berm	~	X	~	X	04/30/11	12/6/2010	12/16/10	09/15/11
	R00103030005			~	~	X	X	04/30/11	12/6/2010	12/16/10	09/15/11
	R00103030006			~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	R00103060007		Straw Wattles	~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	R00103060008			~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	R00103060009			~	X	~	X	—	9/15/2011	—	—
	R00103060010			~	~	X	X	—	9/15/2011	—	—
	R00103060011			~	X	~	X	—	9/26/2011	—	—
	R00103060012			~	X	~	X	—	9/26/2011	—	—
	R00103060013			~	X	~	X	—	9/26/2011	—	—
R-SMA-1	R00202010003			Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011
	R00204060006	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	R00204060007			X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	R00206010005	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	R00207010001	Gabion	Gabions	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	R00207010002			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	R00207020004		Gabion Blanket	X	~	X	~	04/30/11	4/26/2011	05/16/11	—
R-SMA-1.95	R00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	R00303010006	Berm	Earthen Berm	~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	R00303060004		Straw Wattles	~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	R00303060005		~	X	~	X	04/30/11	12/6/2010	12/16/10	—	

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
R-SMA-1.95	R00304010003	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
	R00304040002		Culvert	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
R-SMA-2.05	R00402020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	R00406030002	Check Dam	Juniper Bales	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	R00406030003			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	R00406030004			~	X	~	X	11/01/10	11/1/2010	12/01/10	08/08/11
R-SMA-2.3	R00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	R00502020002			X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	R00506030003	Check Dam	Juniper Bales	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
R-SMA-2.5	R00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	R00602020002			X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	R00604060004	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
	R00606010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	R00606010005			~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	R00606010006			~	~	X	X	04/30/11	12/6/2010	12/16/10	—
B-SMA-0.5	B00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/8/2010	12/16/10	—
	B00102020002			X	~	~	~	04/30/11	12/8/2010	12/16/10	—
	B00103010006	Berm	Earthen Berm	~	~	X	X	04/30/11	12/8/2010	12/16/10	—
	B00103010007			~	X	~	X	04/30/11	12/8/2010	12/16/10	—
	B00104010005	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/8/2010	12/16/10	—
	B00104040003			Culvert	X	~	X	~	04/30/11	12/8/2010	12/16/10
	B00106010008	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/8/2010	12/16/10	—
B-SMA-1	B00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	B00202020002			X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	B00206010003	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	B00206010004			~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	B00206010005			~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	B00206010006			~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	B00206010007			~	X	~	X	04/30/11	12/6/2010	12/16/10	—

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APPENDIX D

Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
ACID-SMA-1.05	P00103010005	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	P00103090003		Curbing	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00104040004	Channel/Swale	Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
ACID-SMA-2	P00201010014	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00202020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00203010004	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	P00203060009		Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00203060010		~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	P00203060011		~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	P00206010002	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
P00206010013	~			~	X	X	11/01/10	11/1/2010	12/01/10	—	
ACID-SMA-2.01	P002A01060003	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	P002A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	P002A03010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	P002A03060005		Straw Wattles	~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	P002A04060002	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
ACID-SMA-2.1	P00301010016	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00301060010		Erosion Control Blanket	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00302020014			X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00302030012			X	X	~	X	11/01/10	11/1/2010	12/01/10	—
	P00303010002	Berm	Earthen Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00303010009			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00303060005		Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00303060006			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
P00303060007	~			~	X	X	11/01/10	11/1/2010	12/01/10	—	
	~			~	X	X	11/01/10	11/1/2010	12/01/10	—	

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APPENDIX D

Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date		
ACID-SMA-2.1	P00304060011	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—		
	P00306010004	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—		
	P00306010015			~	~	X	X	11/01/10	11/1/2010	12/01/10	—		
LA-SMA-0.85	L00102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—		
	L00102030007		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	11/01/10	11/1/2010	12/01/10	—		
	L00103090006	Berm	Curbing	~	~	X	X	11/01/10	11/1/2010	12/01/10	—		
	L00107010001	Gabion	Gabions	~	X	~	X	11/01/10	11/1/2010	12/01/10	—		
	L00107010004			~	X	~	X	11/01/10	11/1/2010	12/01/10	—		
	L00107010005			~	X	~	X	11/01/10	11/1/2010	12/01/10	—		
LA-SMA-0.9	L00201060019	Seed and Mulch	Erosion Control Blanket	X	~	~	~	—	10/12/2011	—	—		
	L00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—		
	L00203010013	Berm	Earthen Berm	~	X	~	X	—	10/12/2011	—	—		
	L00203010014			~	X	~	X	—	10/12/2011	—	—		
	L00203010015			~	X	~	X	—	10/12/2011	—	—		
	L00203010016			~	X	~	X	—	10/12/2011	—	—		
	L00203010017			~	X	~	X	—	10/12/2011	—	—		
	L00203010018			~	X	~	X	—	10/12/2011	—	—		
	L00203060008			Straw Wattles	Straw Wattles	~	X	~	X	04/30/11	12/9/2010	12/16/10	10/12/11
	L00203060009					~	X	~	X	04/30/11	12/9/2010	12/16/10	09/19/11
	L00203060011	~	X			~	X	04/30/11	12/9/2010	12/16/10	10/12/11		
	L00203060012	~	X			~	X	—	9/19/2011	—	10/12/11		
	L00203090002	Curbing	Curbing	~	~	X	X	04/30/11	12/9/2010	12/16/10	—		
	L00203090003			~	~	X	X	04/30/11	12/9/2010	12/16/10	—		
	L00203100010	Gravel Bags	Gravel Bags	~	~	X	X	04/30/11	12/9/2010	12/16/10	—		
	L00204040004			Channel/Swale	Culvert	X	~	X	~	04/30/11	12/9/2010	12/16/10	—

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APPENDIX D

Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-1	L00301010009	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	L00302010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	L00303060006	Berm	Straw Wattles	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	L00303060007			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	L00303060008			~	~	X	X	04/30/11	12/9/2010	12/16/10	08/29/11
	L00303060013			~	~	X	X	—	8/29/2011	—	—
	L00303120012		Rock Berm	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	L00304020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	04/30/11	12/9/2010	12/16/10	—
	L00304040004		Culvert	X	~	X	~	04/30/11	12/9/2010	12/16/10	—
	L00306010010	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/9/2010	12/16/10	08/29/11
	L00306010011			~	X	~	X	04/30/11	12/9/2010	12/16/10	08/29/11
L00306010014	~			X	~	X	—	8/29/2011	—	—	
LA-SMA-1.1	L00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/8/2010	12/16/10	—
	L00402030006			X	~	X	~	04/30/11	12/8/2010	12/16/10	—
	L00404060003	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/8/2010	12/16/10	—
	L00406010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/8/2010	12/16/10	—
LA-SMA-1.25	L00502020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L00503020001	Berm	Base Course Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	L00503120006		Rock Berm	~	X	~	X	—	7/13/2011	—	—
	L00507010002	Gabion	Gabions	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
LA-SMA-2.1	L00601060008	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	L00602020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	L00603030007	Berm	Log Berm	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L00603080002		Retaining Wall	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L00604040003	Channel/Swale	Culvert	X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	L00604060006		Rip Rap	X	X	~	~	04/30/11	4/26/2011	05/16/11	—

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-2.3	L00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/8/2010	12/16/10	—
	L00703060003	Berm	Straw Wattles	~	~	X	X	04/30/11	12/8/2010	12/16/10	—
	L00703060004			~	X	~	X	04/30/11	12/8/2010	12/16/10	—
	L00703080002			~	~	X	X	04/30/11	12/8/2010	12/16/10	—
LA-SMA-3.1	L00802010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L00802020006		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L00802030005		Permanent Vegetation Vegetative Buffer Strip	X	X	~	X	11/01/10	11/1/2010	12/01/10	—
	L00804040004	Channel/Swale	Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
LA-SMA-3.9	L00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/8/2010	12/16/10	—
	L00903060003	Berm	Straw Wattles	~	X	~	X	04/30/11	12/8/2010	12/16/10	—
	L00904040002	Channel/Swale	Culvert	X	~	X	~	04/30/11	12/8/2010	12/16/10	—
LA-SMA-4.1	L01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L01004060004	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
				X	~	X	~	11/01/10	11/1/2010	12/01/10	—
				X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	L01006010008	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	09/01/11
				~	X	~	X	—	9/1/2011	—	—
LA-SMA-4.2	L01102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L01104050003	Channel/Swale	Water Bar	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
				X	~	X	~	11/01/10	11/1/2010	12/01/10	—
				X	~	X	~	11/01/10	11/1/2010	12/01/10	—
				X	~	X	~	11/01/10	11/1/2010	12/01/10	—

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
LA-SMA-4.2	L01106010002	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	L01106010005			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
LA-SMA-5.01	L01201010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/8/2010	12/16/10	—	
	L01202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/8/2010	12/16/10	—	
	L01203010004	Berm	Earthen Berm	~	X	~	X	04/30/11	12/8/2010	12/16/10	—	
	L01203010007			~	~	X	X	04/30/11	12/8/2010	12/16/10	—	
	L01203060002			~	~	X	X	04/30/11	12/8/2010	12/16/10	—	
	L01203120010	Channel/Swale	Rock Berm	~	~	X	X	04/30/11	12/8/2010	12/16/10	—	
	L01204050008		Water Bar	X	~	X	~	04/30/11	12/8/2010	12/16/10	—	
	L01204050009			X	~	X	~	04/30/11	12/8/2010	12/16/10	—	
L01204060006	Rip Rap		X	X	~	~	04/30/11	12/8/2010	12/16/10	—		
LA-SMA-5.02	L012A01010007	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	4/26/2011	05/16/11	—	
	L012A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—	
	L012A03010002	Berm	Earthen Berm	~	~	X	X	04/30/11	4/26/2011	05/16/11	—	
	L012A03060005			Straw Wattles	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L012A03060006				~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L012A03060008			~	X	~	X	—	9/1/2011	—	—	
	L012A03060009			~	X	~	X	—	9/1/2011	—	—	
LA-SMA-5.2	L01302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—	
	L01306010003	Check Dam	Rock Check Dam	~	X	~	X	—	9/1/2011	—	—	
	L01306010004			~	X	~	X	—	9/1/2011	—	—	
	L01306030002			Juniper Bales	~	X	~	X	04/30/11	4/26/2011	05/16/11	09/01/11
LA-SMA-5.31	L01501010003	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/8/2010	12/16/10	—	
	L01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/8/2010	12/16/10	—	

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-5.31	L01503060004	Berm	Straw Wattles	~	X	~	X	04/30/11	12/8/2010	12/16/10	08/29/11
	L01503060005			~	X	~	X	04/30/11	12/8/2010	12/16/10	08/29/11
	L01503060006			~	X	~	X	04/30/11	12/8/2010	12/16/10	08/29/11
	L01503060007			~	X	~	X	—	8/29/2011	—	—
	L01503060008			~	X	~	X	—	8/29/2011	—	—
	L01503060009			~	X	~	X	—	8/30/2011	—	—
	L01506010002	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/8/2010	12/16/10	—
LA-SMA-5.33	L01601030010	Seed and Mulch	Hydromulch	X	~	~	~	—	8/31/2011	—	—
	L01602020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/8/2010	12/16/10	—
	L01603010009	Berm	Earthen Berm	~	~	X	X	—	8/31/2011	—	—
	L01603040011		Asphalt Berm	~	~	X	X	—	8/31/2011	—	—
	L01603040012		~	~	X	X	—	8/31/2011	—	—	
	L01603060008		Straw Wattles	~	~	X	X	04/30/11	12/8/2010	12/16/10	08/31/11
	L01603100005		Gravel Bags	~	X	~	X	04/30/11	12/8/2010	12/16/10	—
LA-SMA-5.35	L01403100003		Berm	Gravel Bags	~	~	X	X	11/01/10	11/1/2010	12/01/10
	L01403100006	~			~	X	X	11/01/10	11/1/2010	12/01/10	—
	L01404020001	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	L01404060007		Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
LA-SMA-5.361	L01701010008	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L01702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L01703010002	Berm	Earthen Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	L01706010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	3/29/2011	04/28/11	07/12/11
	L01706010009			~	X	~	X	—	7/12/2011	—	—
LA-SMA-5.362	L017A01010007	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L017A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
LA-SMA-5.362	L017A03010005	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	L017A03010008			~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
	L017A03120009		Rock Berm	~	~	X	X	—	9/6/2011	—	—	
	L017A06010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	L017A06030002		Juniper Bales	~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
LA-SMA-5.51	L01802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L01802020005			X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L01803010006	Berm	Earthen Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
	L01803010007			~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	L01803010008			~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	L01807010003	Gabion	Gabions	X	X	~	~	04/30/11	3/29/2011	04/28/11	—	
LA-SMA-5.52	L018A01010006	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L018A02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L018A03010003	Berm	Earthen Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
	L018A03010004			~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	L018A04060005	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	3/29/2011	04/28/11	—	
	L018A06010002	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
LA-SMA-5.53	L018B01010003	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L018B02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L018B03010002	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	L018B03060004			Straw Wattles	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	L018B03060005			~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
	L018B03060006			~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
LA-SMA-5.54	L018C02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	L018C03010002	Berm	Earthen Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—	
	L018C03060003		Straw Wattles	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-5.91	L01901060012	Seed and Mulch	Erosion Control Blanket	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L01902010006	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L01905020001	Sediment Traps and Basin	Sediment Basin	~	X	X	X	11/01/10	11/1/2010	12/01/10	—
LA-SMA-5.92	L019A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L019A03010005	Berm	Earthen Berm	~	X	X	X	11/01/10	11/1/2010	12/01/10	—
	L019A03030003		Log Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	L019A05020006	Sediment Traps and Basin	Sediment Basin	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
LA-SMA-6.25	L02002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L02003040002	Berm	Asphalt Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	L02003060005		Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	08/11/11
	L02003060006		~	X	~	X	—	8/11/2011	—	—	
LA-SMA-6.27	L02101010003	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L02102010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	L02103040001	Berm	Asphalt Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	L02103060007		Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	08/11/11
	L02103060008		~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	L02103060009		~	X	~	X	—	8/11/2011	—	—	
LA-SMA-6.3	L02201010007	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02203040005	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02206010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	L02206010004			~	X	~	X	04/30/11	12/7/2010	12/16/10	—

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-6.31	L022A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L022A03040002	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L022A03060004		Straw Wattles	~	X	~	X	04/30/11	12/7/2010	12/16/10	07/18/11
	L022A03060006			~	X	~	X	—	7/18/2011	—	—
	L022A04030003	Channel/Swale	Rock Channel/Swale	X	~	X	~	04/30/11	12/7/2010	12/16/10	—
	L022A06010005	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
LA-SMA-6.32	L02302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02303040002	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02303060003		Straw Wattles	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	L02303060004			~	X	~	X	04/30/11	12/7/2010	12/16/10	—
LA-SMA-6.34	L02402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02403040003	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02403040004			~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02406010005	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
LA-SMA-6.36	L02502010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02503010008	Berm	Earthen Berm	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	L02503010009			~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02503090004			Curbing	~	~	X	X	04/30/11	12/7/2010	12/16/10
	L02504040005	Channel/Swale	Culvert	X	~	X	~	04/30/11	12/7/2010	12/16/10	07/11/11
LA-SMA-6.38	L02602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02603060004	Berm	Straw Wattles	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	L02603060005			~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02603060007			~	~	X	X	04/30/11	12/7/2010	12/16/10	08/11/11
	L02603060008			~	~	X	X	—	8/11/2011	—	—
	L02604060006	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/7/2010	12/16/10	—

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APPENDIX D

Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-6.395	L02701010006	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02703010004	Berm	Earthen Berm	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	L02703010005			~	~	X	X	04/30/11	12/7/2010	12/16/10	—
LA-SMA-6.5	L02801010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	L02803010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02803010006			~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	L02806010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
LA-SMA-9	L02901010006	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L02901010007			X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L02901010008			X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L02902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	L02903010012	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	L02903010013			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	L02903010014			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	L02903080005		Retaining Wall	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	L02904050009	Channel/Swale	Water Bar	X	~	X	~	04/30/11	3/29/2011	04/28/11	—
	L02904050010			X	~	X	~	04/30/11	3/29/2011	04/28/11	—
L02904050011	X			~	X	~	04/30/11	3/29/2011	04/28/11	—	
LA-SMA-10.11	L03004060003	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/8/2010	12/16/10	—
	L03004060009			X	X	~	~	04/30/11	12/8/2010	12/16/10	—
	L03006010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/8/2010	12/16/10	—
LA-SMA-10.12	L030A01010024	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	L030A01020018		Seed and Gravel Mulch	X	~	~	~	04/30/11	4/26/2011	05/16/11	—

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
LA-SMA-10.12	L030A03010025	Berm	Earthen Berm	~	X	~	X	—	8/15/2011	—	—
	L030A03120005		Rock Berm	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120006			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120009			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120012			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120013			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120014			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120015			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120016			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120017			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120019			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120020			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120021			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120022			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A03120023	~		X	~	X	04/30/11	4/26/2011	05/16/11	—	
	L030A04060007	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	4/26/2011	05/16/11	—
	L030A06010001	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A06010002			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	L030A06010003			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	L030A06010004			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
L030A06010008	~			~	X	X	04/30/11	4/26/2011	05/16/11	—	
L030A06010010	~			X	~	X	04/30/11	4/26/2011	05/16/11	08/08/11	
L030A06010011	~			X	~	X	04/30/11	4/26/2011	05/16/11	—	
DP-SMA-0.3	D00101010010	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	D00102020005	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	D00103010014	Berm	Earthen Berm	~	~	X	X	—	8/10/2011	—	—
	D00103020011		Base Course Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	D00103020012		~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
D00103120013	Rock Berm		~	X	~	X	04/30/11	3/29/2011	04/28/11	—	

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
DP-SMA-0.3	D00106010007	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	3/29/2011	04/28/11	08/10/11	
	D00106010008			~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	D00106010009			~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	D00107010001	Gabion	Gabions	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	D00107020006		Gabion Blanket	X	~	X	~	04/30/11	3/29/2011	04/28/11	—	
DP-SMA-0.4	D00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—	
	D00203060005	Berm	Straw Wattles	~	~	X	X	04/30/11	12/7/2010	12/16/10	—	
	D00203060007			~	X	~	X	04/30/11	12/7/2010	12/16/10	—	
	D00204010002	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/7/2010	12/16/10	—	
	D00204040003		Culvert	X	~	X	~	04/30/11	12/7/2010	12/16/10	—	
	D00204060006		Rip Rap	~	~	X	X	04/30/11	12/7/2010	12/16/10	—	
	D00206030004	Check Dam	Juniper Bales	~	~	X	X	04/30/11	12/7/2010	12/16/10	—	
DP-SMA-0.6	D00301060015	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
	D00303010013	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	D00303010014			~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	D00303020011			Base Course Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	D00304010004	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	3/29/2011	04/28/11	—	
	D00304040005		Culvert	X	~	X	~	04/30/11	3/29/2011	04/28/11	—	
	D00305020010	Sediment Traps and Basin	Sediment Basin	~	X	~	X	04/30/11	3/29/2011	04/28/11	—	
	D00308020012	Cap	Rock Cap	X	~	~	~	04/30/11	3/29/2011	04/28/11	—	
DP-SMA-1	D00401010010	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/7/2010	12/16/10	—	
	D00402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—	
	D00403010002	Berm	Earthen Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—	
	D00403010011			~	X	~	X	—	5/18/2011	—	—	
	D00403020014			Base Course Berm	~	~	X	X	—	8/4/2011	—	—
	D00403060013			Straw Wattles	~	~	X	X	—	8/8/2011	—	—
	D00403120009			Rock Berm	~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	D00403120012			~	X	~	X	—	5/18/2011	—	—	

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
DP-SMA-1	D00404020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	04/30/11	12/7/2010	12/16/10	01/17/12	
	D00404060004		Rip Rap	X	~	X	~	04/30/11	12/7/2010	12/16/10	—	
	D00406030006	Check Dam	Juniper Bales	~	X	~	X	04/30/11	12/7/2010	12/16/10	—	
	D00406030007			~	X	~	X	04/30/11	12/7/2010	12/16/10	—	
	D00406030008			~	X	~	X	04/30/11	12/7/2010	12/16/10	—	
DP-SMA-2	D00501010010	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	D00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	D00502020002			X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	D00503010011	Berm	Earthen Berm	~	X	~	X	—	5/18/2011	—	—	
	D00503020003			Base Course Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	D00506030007	Check Dam	Juniper Bales	~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	D00506030008			~	X	~	X	11/01/10	11/1/2010	12/01/10	05/18/11	
D00506030009	~			X	~	X	11/01/10	11/1/2010	12/01/10	—		
DP-SMA-2.35	D00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—	
	D00603020002	Berm	Base Course Berm	~	X	~	X	04/30/11	12/7/2010	12/16/10	—	
	D00603060003			Straw Wattles	~	~	X	X	04/30/11	12/7/2010	12/16/10	07/14/11
	D00603060005			~	~	X	X	—	7/14/2011	—	—	
	D00604060004	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/7/2010	12/16/10	—	
DP-SMA-3	D00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—	
	D00703020014	Berm	Base Course Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
	D00703120015			Rock Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	D00706010008	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
	D00706010009			~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
	D00706010010			~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
	D00706010011			~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
	D00706010012			~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
D00706010013	~			X	~	X	04/30/11	1/12/2011	02/11/11	—		

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
DP-SMA-4	D00801010002	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	D00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	D00802020004			X	~	~	~	04/30/11	12/7/2010	12/16/10	—
	D00803010006	Berm	Earthen Berm	~	~	X	X	04/30/11	12/7/2010	12/16/10	—
	D00803010007			~	X	~	X	04/30/11	12/7/2010	12/16/10	—
	D00806010005	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/7/2010	12/16/10	09/13/11
	D00806010008			~	~	X	X	—	9/13/2011	—	—
P-SMA-0.3	P00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	P00403010002	Berm	Earthen Berm	~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	P00403010006			~	X	~	X	04/30/11	12/6/2010	12/16/10	—
	P00403010007			~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	P00404040003	Channel/Swale	Culvert	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
	P00404050005		Water Bar	X	~	X	~	04/30/11	12/6/2010	12/16/10	10/19/11
P-SMA-1	P00501060020	Seed and Mulch	Erosion Control Blanket	X	~	~	~	—	10/6/2011	—	—
	P00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	P00502030014			X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	P00502030015			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	P00503010018	Berm	Earthen Berm	~	X	~	X	—	10/6/2011	—	—
	P00503010019			~	X	~	X	—	10/6/2011	—	—
	P00503040010		Asphalt Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	10/20/11
	P00503060021		Straw Wattles	~	X	~	X	—	10/6/2011	—	—
	P00503060022	~		X	~	X	—	10/6/2011	—	—	
	P00503060023	~		X	~	X	—	10/6/2011	—	—	
	P00503060024	~		X	~	X	—	10/6/2011	—	—	
	P00503060025	~		X	~	X	—	10/6/2011	—	—	
	P00503060026	~		X	~	X	—	10/6/2011	—	—	
	P00503060027	~		X	~	X	—	10/6/2011	—	—	
	P00503060028	~		X	~	X	—	10/6/2011	—	—	
	P00503060029	~		X	~	X	—	10/6/2011	—	—	

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Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
P-SMA-1	P00503060030	Berm	Straw Wattles	~	X	~	X	—	10/6/2011	—	—
	P00503060031			~	X	~	X	—	10/6/2011	—	—
	P00503080003		Retaining Wall	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	P00503120017		Rock Berm	~	X	~	X	—	10/6/2011	—	—
	P00504020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	P00504020009			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	P00504020011			X	~	X	~	11/01/10	11/1/2010	12/01/10	10/20/11
	P00504040004		Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	P00504040016			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	P00504060002		Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
P00504060013	X			X	~	~	11/01/10	11/1/2010	12/01/10	—	
P-SMA-2	P00602010007		Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10
	P00603020009	Berm	Base Course Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00603020010			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	P00603120008		Rock Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	P00604010001	Channel/Swale	Earthen Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	P00604020006		Concrete/Asphalt Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	P00604060002		Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
P00604060003	X			~	X	~	11/01/10	11/1/2010	12/01/10	—	
P-SMA-2.15	P00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—
	P00702030002		Permanent Vegetation Vegetative Buffer Strip	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
	P00704060003	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/6/2010	12/16/10	—
	P00704060006			X	X	~	~	04/30/11	12/6/2010	12/16/10	—
	P00706010004	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/6/2010	12/16/10	—
	P00706010005			~	X	~	X	04/30/11	12/6/2010	12/16/10	—

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-1, cont'd. Baseline Control Measures Installed at Los Alamos/Pueblo Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
P-SMA-2.2	P00802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/28/2011	05/16/11	—	
	P00803020012	Berm	Base Course Berm	~	~	X	X	04/30/11	4/28/2011	05/16/11	—	
	P00803060011		Straw Wattles	~	X	~	X	04/30/11	4/28/2011	05/16/11	09/21/11	
	P00803060023			~	X	~	X	—	9/21/2011	—	—	
	P00803130013		S-Fence		~	X	~	X	04/30/11	4/28/2011	05/16/11	09/29/11
	P00803130014				~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	P00803130015				~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	P00803130016				~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	P00803130024				~	X	~	X	—	9/29/2011	—	—
	P00804020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	X	~	~	04/30/11	4/28/2011	05/16/11	—	
	P00804060001		Rip Rap	X	~	X	~	04/30/11	4/28/2011	05/16/11	—	
	P00804060006			X	X	~	~	04/30/11	4/28/2011	05/16/11	—	
	P00804080017		TRM-Lined Swale	X	~	X	~	04/30/11	4/28/2011	05/16/11	—	
	P-SMA-2.2	P00806010018	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	4/28/2011	05/16/11	—
		P00806010019			~	~	X	X	04/30/11	4/28/2011	05/16/11	—
		P00806010020			~	~	X	X	04/30/11	4/28/2011	05/16/11	—
		P00806010021			~	~	X	X	04/30/11	4/28/2011	05/16/11	—
P00806010022		~			~	X	X	04/30/11	4/28/2011	05/16/11	—	
P-SMA-3.05	P00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/6/2010	12/16/10	—	
	P00903010008	Berm	Earthen Berm	~	X	~	X	04/30/11	12/6/2010	12/16/10	—	
	P00903010009			~	X	~	X	04/30/11	12/6/2010	12/16/10	—	
	P00903010010			~	X	~	X	—	5/18/2011	—	—	
	P00903020007		Base Course Berm	~	X	~	X	04/30/11	12/6/2010	12/16/10	—	
	P00904050005	Channel/Swale	Water Bar	X	~	X	~	04/30/11	12/6/2010	12/16/10	—	
				X	~	X	~	04/30/11	12/6/2010	12/16/10	—	

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-2. Baseline Control Measures Installed at Sandia Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
S-SMA-0.25	S00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	S00102020006		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	S00103060009	Berm	Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	S00104060007	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	S00107010008	Gabion	Gabions	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	S00107020003		Gabion Blanket	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
S-SMA-1.1	S00203010004	Berm	Earthen Berm	~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	S00203120010		Rock Berm	~	~	X	X	04/30/11	4/28/2011	05/16/11	—
	S00203120011			~	~	X	X	04/30/11	4/28/2011	05/16/11	—
	S00204060006	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	S00206010008	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	4/28/2011	05/16/11	—
	S00207010003	Gabion	Gabions	~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	S00207020005		Gabion Blanket	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	S00208010012	Cap	Earth Cap	X	~	~	~	04/30/11	4/28/2011	05/16/11	—
S-SMA-2	S00302010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	S00303020008	Berm	Base Course Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	S00304060005	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	S00304060009			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	S00304060010			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	S00307020006	Gabion	Gabion Blanket	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
S-SMA-2.01	S003A02030005	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	~	X	~	04/30/11	12/9/2010	12/16/10	—
	S003A03010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S003A04060002	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/9/2010	12/16/10	—
	S003A04060003			X	X	~	~	04/30/11	12/9/2010	12/16/10	—

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-2, cont'd. Baseline Control Measures Installed at Sandia Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
S-SMA-2.8	S00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S00403010005	Berm	Earthen Berm	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	S00403020004		Base Course Berm	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00403060002		Straw Wattles	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
S-SMA-3.51	S00502010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S00503010005	Berm	Earthen Berm	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	S00503020006		Base Course Berm	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00506010007	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00506010008			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00506010009			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00506010010			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00506010012			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
S-SMA-3.52	S005A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S005A03010004	Berm	Earthen Berm	~	~	X	X	—	7/13/2011	—	—
	S005A03060002		Straw Wattles	~	~	X	X	04/30/11	12/9/2010	12/16/10	07/13/11
	S005A03060003		~	X	~	X	04/30/11	12/9/2010	12/16/10	—	
S-SMA-3.53	S005B02020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S005B03120005	Berm	Rock Berm	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	S005B06010003	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S005B06010004			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
S-SMA-3.6	S00602010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	S00604060002	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	S00604060010			X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	S00604060011			X	~	X	~	11/01/10	11/1/2010	12/01/10	—

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-2, cont'd. Baseline Control Measures Installed at Sandia Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
S-SMA-3.6	S00606010001	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	S00606010012			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	S00606010013			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	S00606010014			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	S00606010015			~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	S00607010007	Gabion	Gabions	~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	S00607010008			~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
S-SMA-3.7	S00702020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/9/2010	12/16/10	—	
	S00703120004	Berm	Rock Berm	~	~	X	X	04/30/11	12/9/2010	12/16/10	—	
	S00703120005			~	X	~	X	04/30/11	12/9/2010	12/16/10	—	
	S00704030003	Channel/Swale	Rock Channel/Swale	X	~	X	~	04/30/11	12/9/2010	12/16/10	—	
S-SMA-3.71	S00801010012	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/9/2010	12/16/10	07/22/11	
	S00801030015		Hydromulch	X	~	~	~	—	7/22/2011	—	—	
	S00802010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—	
	S00803010013	Berm	Earthen Berm	~	~	X	X	—	7/22/2011	—	—	
	S00803010014			~	X	~	X	—	7/22/2011	—	—	
	S00803060004			Straw Wattles	~	~	X	X	04/30/11	12/9/2010	12/16/10	07/22/11
	S00803060005				~	~	X	X	04/30/11	12/9/2010	12/16/10	07/22/11
	S00803060006	~	~		X	X	04/30/11	12/9/2010	12/16/10	07/22/11		
	S00803060007	~	~	X	X	04/30/11	12/9/2010	12/16/10	07/22/11			
	S00804020002	Channel/Swale	Concrete/Asphalt Channel/Swale	X	X	~	~	04/30/11	12/9/2010	12/16/10	—	
	S00806010008	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/9/2010	12/16/10	—	
	S00806010009			~	X	~	X	04/30/11	12/9/2010	12/16/10	—	
	S00806010010			~	X	~	X	04/30/11	12/9/2010	12/16/10	—	
S00806010011	~			X	~	X	04/30/11	12/9/2010	12/16/10	—		
S00807010001	Gabion	Gabions	~	~	X	X	04/30/11	12/9/2010	12/16/10	—		

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APPENDIX D

Table D-2, cont'd. Baseline Control Measures Installed at Sandia Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
S-SMA-3.72	S00901010008	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/9/2010	12/16/10	07/28/11
	S00901030011		Hydromulch	X	~	~	~	—	7/28/2011	—	—
	S00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S00902020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S00903010009	Berm	Earthen Berm	~	~	X	X	—	7/28/2011	—	—
	S00903010010			~	X	~	X	—	7/28/2011	—	—
	S00903120003		Rock Berm	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S00906010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/9/2010	12/16/10	07/28/11
	S00906010005			~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	S00906010006			~	X	~	X	04/30/11	12/9/2010	12/16/10	—
S00906010007	~			X	~	X	04/30/11	12/9/2010	12/16/10	—	
S-SMA-3.95	S01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	S01003060003	Berm	Straw Wattles	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	S01003060004			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
S-SMA-4.1	S01102020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S01103120003	Berm	Rock Berm	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S01106010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
S-SMA-4.5	S01202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	S01203010005	Berm	Earthen Berm	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	S01203060002		Straw Wattles	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	S01203060003		~	X	~	X	04/30/11	4/26/2011	05/16/11	—	
	S01203060004		~	~	X	X	04/30/11	4/26/2011	05/16/11	—	
S-SMA-5	S01302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—

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APPENDIX D

Table D-2, cont'd. Baseline Control Measures Installed at Sandia Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
S-SMA-5	S01303010006	Berm	Earthen Berm	~	X	~	X	—	5/6/2011	—	—
	S01303060004		Straw Wattles	~	X	~	X	04/30/11	4/26/2011	05/16/11	05/06/11
	S01303060005			~	X	~	X	04/30/11	4/26/2011	05/16/11	05/06/11
	S01304060003	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	S01307010002	Gabion	Gabions	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
S-SMA-5.2	S01402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/9/2010	12/16/10	—
	S01403060004	Berm	Straw Wattles	~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	S01403060005			~	X	~	X	04/30/11	12/9/2010	12/16/10	—
	S01404060011	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/9/2010	12/16/10	—
	S01406010006	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S01406010007			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S01406010008			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S01406010009			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
	S01406010010			~	~	X	X	04/30/11	12/9/2010	12/16/10	—
S01406010012	~	X	~	X	04/30/11	12/9/2010	12/16/10	—			
S-SMA-5.5	S01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	S01503010004	Berm	Earthen Berm	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
S-SMA-6	S01602010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/28/2011	05/16/11	—
	S01603010006	Berm	Earthen Berm	~	~	X	X	04/30/11	4/28/2011	05/16/11	—
	S01603010008			~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	S01603010009			~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	S01603140010		Coir Log	~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	S01603140011			~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	S01604060004	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	S01606010005	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	4/28/2011	05/16/11	—
S01606010007	~			~	X	X	04/30/11	4/28/2011	05/16/11	—	

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APPENDIX D

Table D-3. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date	
CDB-SMA-0.15	C00101010008	Seed and Mulch	Seed and Wood Mulch	X	X	~	~	11/01/10	11/1/2010	12/01/10	08/15/11	
	C00101030012		Hydromulch	X	~	~	~	—	8/15/2011	—	—	
	C00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	C00103010013	Berm	Earthen Berm	~	X	~	X	—	8/15/2011	—	—	
	C00103120009		Rock Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	C00103120010			~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	C00106010011	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
	C00106030003		Juniper Bales	Juniper Bales	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	C00106030004			~	X	~	X	11/01/10	11/1/2010	12/01/10	08/15/11	
	C00106030005			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
C00106030006	~			X	~	X	11/01/10	11/1/2010	12/01/10	—		
C00106030007	~			X	~	X	11/01/10	11/1/2010	12/01/10	—		
CDB-SMA-0.25	C00201060014	Seed and Mulch	Erosion Control Blanket	X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	C00202010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	C00203010013	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	C00204060001	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—	
	C00204060009			X	~	X	~	11/01/10	11/1/2010	12/01/10	—	
	C00206020007	Check Dam	Log Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	C00206020010			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	C00206020012			~	X	~	X	11/01/10	11/1/2010	12/01/10	—	
CDB-SMA-0.55	C00302010008	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—	
	C00303010011	Berm	Earthen Berm	~	X	~	X	04/30/11	12/13/2010	01/12/11	—	

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APPENDIX D

Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
CDB-SMA-0.55	C00306010006	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010009			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	C00306010013			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010015			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010016			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010017			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010018			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010019			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306010020			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	C00306020012			Log Check Dam	~	X	~	X	04/30/11	12/13/2010	01/12/11
	C00306020014	~	X		~	X	04/30/11	12/13/2010	01/12/11	—	
CDB-SMA-1	C00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	C00402020002			X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	C00402030007			X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	C00404060006	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	C00404060008			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	C00404060009			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	C00406010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	C00406010010			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	C00406010011			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	C00406010012			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
C00406010013	~			X	~	X	04/30/11	12/22/2010	01/12/11	—	
CDB-SMA-1.15	C00501060009	Seed and Mulch	Erosion Control Blanket	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	C00502010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00503010006	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00504060007	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	C00504060008			X	~	X	~	11/01/10	11/1/2010	12/01/10	—

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APPENDIX D

Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
CDB-SMA-1.35	C00601010008	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00601060007		Erosion Control Blanket	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	C00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00602020005		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00603010006	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00604060009	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
CDB-SMA-1.54	C00701010013	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00701060010		Erosion Control Blanket	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00701060011			X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00701060012			X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00702010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00703010007	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00703010008			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00703010009			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	C00703010019			~	X	~	X	—	4/13/2011	—	—
	C00704050014	Channel/Swale	Water Bar	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00704060006		Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	C00706020015	Check Dam	Log Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00706020016			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00706020017			~	X	~	X	11/01/10	11/1/2010	12/01/10	05/06/11
	C00706020018			~	X	~	X	11/01/10	11/1/2010	12/01/10	05/06/11
CDB-SMA-1.55	C00801010011	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	C00803010010	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	C00803120009		Rock Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
CDB-SMA-1.65	C00903010004	Berm	Earthen Berm	~	X	~	X	—	8/15/2011	—	—
	C00903060003	Berm	Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	08/15/11
	C00904010002	Channel/Swale	Earthen Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	C00904060001		Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
CDB-SMA-4	C01002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	11/16/2010	12/16/10	—
	C01004020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	X	~	~	04/30/11	11/16/2010	12/16/10	—
			Rip Rap	X	X	~	~	04/30/11	11/16/2010	12/16/10	—
	C01005010004	Sediment Traps and Basin	Sediment Trap	~	X	~	X	04/30/11	11/16/2010	12/16/10	—
	C01006010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	11/16/2010	12/16/10	—
				~	~	X	X	04/30/11	11/16/2010	12/16/10	—
				~	~	X	X	04/30/11	11/16/2010	12/16/10	—
				~	~	X	X	04/30/11	11/16/2010	12/16/10	—
~				~	X	X	04/30/11	11/16/2010	12/16/10	—	
M-SMA-1	M00102010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	M00102020005		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	M00107010001	Gabion	Gabions	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
				~	X	~	X	11/01/10	11/1/2010	12/01/10	—
M-SMA-1.2	M00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00202020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00203060006	Berm	Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M00204060008	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	M00206010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
				~	X	~	X	04/30/11	12/13/2010	12/16/10	—

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-1.21	M002A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M002A03010006	Berm	Earthen Berm	~	X	~	X	—	8/5/2011	—	—
	M002A03020002		Base Course Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M002A03120005		Rock Berm	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M002A04060003	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/13/2010	12/16/10	—
	M002A06010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-1.22	M002B02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	M002B04050002	Channel/Swale	Water Bar	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	M002B06010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	M002B06010004			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	M002B06010005			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	M002B06010006			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	M002B06010007			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	M002B06010008			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	M002B06010009			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
M-SMA-3	M00302010003			Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011
	M00303120009	Berm	Rock Berm	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00303120010			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00303120011			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00304050005	Channel/Swale	Water Bar	X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	M00304060001		Rip Rap	X	X	~	~	04/30/11	4/26/2011	05/16/11	—
	M00304060008			X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	M00305020012	Sediment Traps and Basin	Sediment Basin	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
M00306010007	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	4/26/2011	05/16/11	—	

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-3.1	M00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00403040006	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M00404060005	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/13/2010	12/16/10	—
	M00406010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-3.5	M00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	M00503010015	Berm	Earthen Berm	~	X	~	X	—	5/6/2011	—	—
	M00503010016			~	X	~	X	—	5/6/2011	—	—
	M00503120009	Rock Berm	Rock Berm	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	M00503120010			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	M00503120013			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00503120014			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00504060011	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	M00504060012			X	~	X	~	04/30/11	4/26/2011	05/16/11	—
	M00504060017			X	X	~	~	—	5/6/2011	—	—
	M00506010004	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00506010005			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M00506010006			~	X	~	X	04/30/11	4/26/2011	05/16/11	05/06/11
	M00506010007			~	X	~	X	04/30/11	4/26/2011	05/16/11	05/06/11
M00506010008	~			X	~	X	04/30/11	4/26/2011	05/16/11	05/06/11	
M-SMA-4	M00602010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	M00602020004		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	M00604060002	Channel/Swale	Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	M00604060007			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	M00604060012			X	~	X	~	11/01/10	11/1/2010	12/01/10	—

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APPENDIX D

Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-4	M00606010005	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	M00606010010			~	~	X	X	11/01/10	11/1/2010	12/01/10	11/03/11
	M00606010011			~	~	X	X	11/01/10	11/1/2010	12/01/10	10/17/11
	M00606010013			~	~	X	X	—	11/3/2011	—	—
	M00607010006	Gabion	Gabions	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
M-SMA-5	M00702010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/28/2011	05/16/11	—
	M00702020006		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	4/28/2011	05/16/11	—
	M00702030014		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	04/30/11	4/28/2011	05/16/11	—
	M00703060015	Berm	Straw Wattles	~	~	X	X	04/30/11	4/28/2011	05/16/11	—
	M00704010013	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	M00704020012		Concrete/Asphalt Channel/Swale	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	M00704060001		Rip Rap	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	M00704060008		Rip Rap	X	~	X	~	04/30/11	4/28/2011	05/16/11	—
	M00706010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	4/28/2011	05/16/11	—
	M00706010007			~	~	X	X	04/30/11	4/28/2011	05/16/11	—
M-SMA-6	M00801060015	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00802010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00802020005		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00804060001	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	M00804060014			X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00805020016	Sediment Traps and Basin	Sediment Basin	~	~	X	X	04/30/11	12/13/2010	12/16/10	—

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-6	M00806010007	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M00806010008			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M00806010009			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M00806010010			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M00806010011			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M00806010012			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M00806010017			~	X	~	X	—	4/11/2011	—	—
	M00806010018			~	~	X	X	—	4/11/2011	—	—
	M00806010019			~	~	X	X	—	4/11/2011	—	—
	M00806010020			~	~	X	X	—	4/11/2011	—	—
	M00807020013	Gabion	Gabion Blanket	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
M00808030002	Cap	Concrete/Asphalt Cap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—	
M-SMA-7	M00902020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M00903060004	Berm	Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M00903060005			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M00906010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-7.9	M01001010001	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01002020003		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01003010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01003010010			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01003010011			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01003010012			~	X	~	X	—	5/6/2011	—	—
	M01003060007		Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	05/06/11
	M01003060008			~	X	~	X	04/30/11	12/13/2010	12/16/10	05/06/11
	M01003060009			~	X	~	X	04/30/11	12/13/2010	12/16/10	05/06/11
	M01003120005	Rock Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—	
M01003120006	~		~	X	X	04/30/11	12/13/2010	12/16/10	—		

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APPENDIX D

Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-9.1	M01101020001	Seed and Mulch	Seed and Gravel Mulch	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	M01102020006	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	M01104040004	Channel/Swale	Culvert	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	M01106010005	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
M-SMA-10	M01202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01202020011		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01204060004	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	M01204060007			X	X	~	~	04/30/11	12/13/2010	12/16/10	—
	M01204060008			X	X	~	~	04/30/11	12/13/2010	12/16/10	—
	M01206010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M01206010005			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M01206010006			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M01206010009			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M01206010010			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-10.01	M012A01010002	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/13/2010	12/16/10	10/17/11
	M012A02010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	—	10/17/2011	—	—
	M012A03060004	Berm	Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M012A06010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-10.3	M01302010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	M01302020005		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	M01303010011	Berm	Earthen Berm	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M01303010012			~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	M01303100013			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M01306010010	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	4/26/2011	05/16/11	—

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-11.1	M01402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01402020004		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01403090005	Berm	Curbing	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01404060001	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	M01406020006	Check Dam	Log Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-12	M01502010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	M01502020003		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	M01503090004	Berm	Curbing	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	M01504050005	Channel/Swale	Water Bar	X	~	X	~	04/30/11	3/29/2011	04/28/11	—
	M01506020001	Check Dam	Log Check Dam	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	M01506020006			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	M01506020007			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
M-SMA-12.5	M01601010006	Seed and Mulch	Seed and Wood Mulch	X	~	X	~	11/01/10	11/1/2010	12/01/10	06/15/11
	M01601030011		Hydromulch	X	~	~	~	—	6/15/2011	—	—
	M01602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	M01603010009	Berm	Earthen Berm	~	~	X	X	—	6/15/2011	—	—
	M01603010010			~	X	~	X	—	6/15/2011	—	—
	M01603060002			Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10
	M01603060003	~	X		~	X	11/01/10	11/1/2010	12/01/10	06/15/11	
	M01603060004	~	X		~	X	11/01/10	11/1/2010	12/01/10	06/15/11	
	M01603060005	~	X		~	X	11/01/10	11/1/2010	12/01/10	06/15/11	
	M01606010007	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	06/15/11
M01606010008	~			X	~	X	11/01/10	11/1/2010	12/01/10	06/15/11	

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
M-SMA-12.6	M01701010004	Seed and Mulch	Seed and Wood Mulch	X	~	X	~	04/30/11	4/26/2011	05/16/11	06/15/11
	M01701030011		Hydromulch	X	~	~	~	—	6/15/2011	—	—
	M01702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	M01703010010	Berm	Earthen Berm	~	~	X	X	—	6/15/2011	—	—
	M01703020005		Base Course Berm	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M01703020006			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M01703020007			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	M01703060009		Straw Wattles	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
M01706010008	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	4/26/2011	05/16/11	—	
M-SMA-12.7	M01802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01803010008	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01803060006		Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01803060007			~	~	X	X	04/30/11	12/13/2010	12/16/10	07/13/11
	M01803060010			~	~	X	X	—	7/13/2011	—	—
	M01806020009	Check Dam	Log Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-12.8	M01902010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	M01903010003	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	M01903060004		Straw Wattles	~	X	~	X	04/30/11	12/13/2010	12/16/10	07/13/11
	M01903060007			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	M01903060008			~	X	~	X	—	7/13/2011	—	—
	M01906020006	Check Dam	Log Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M-SMA-12.9	M02001010006	Seed and Mulch	Seed and Wood Mulch	X	~	X	~	04/30/11	12/13/2010	12/16/10	07/29/11
	M02001030009		Hydromulch	X	~	~	~	—	7/29/2011	—	—
	M02002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date		
M-SMA-12.9	M02003010005	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—		
	M02003010008			~	~	X	X	—	7/29/2011	—	—		
	M02003060003	Straw Wattles		~	X	~	X	04/30/11	12/13/2010	12/16/10	—		
	M02003060004			~	~	X	X	04/30/11	12/13/2010	12/16/10	07/29/11		
	M02003060007			~	X	~	X	04/30/11	12/13/2010	12/16/10	—		
M-SMA-12.92	M02102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—		
	M02105010001	Sediment Traps and Basin	Sediment Trap	~	X	~	X	11/01/10	11/1/2010	12/01/10	—		
	M02105010003			~	X	~	X	11/01/10	11/1/2010	12/01/10	—		
	M02105010004			~	~	X	X	11/01/10	11/1/2010	12/01/10	—		
M-SMA-13	M02201010012	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/13/2010	12/16/10	—		
	M02202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—		
	M02203010013	Berm	Earthen Berm	~	~	X	X	—	7/28/2011	—	—		
	M02203060005			Straw Wattles		~	~	X	X	04/30/11	12/13/2010	12/16/10	07/28/11
	M02203060006					~	~	X	X	04/30/11	12/13/2010	12/16/10	07/28/11
	M02203060007					~	~	X	X	04/30/11	12/13/2010	12/16/10	07/28/11
	M02206010008	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/13/2010	12/16/10	—		
	M02206010009			~	~	X	X	04/30/11	12/13/2010	12/16/10	—		
	M02206010010			~	~	X	X	04/30/11	12/13/2010	12/16/10	—		
	M02206010011			~	~	X	X	04/30/11	12/13/2010	12/16/10	—		
	M02206020001			Log Check Dam		~	X	~	X	04/30/11	12/13/2010	12/16/10	—
M02206020003	~					X	~	X	04/30/11	12/13/2010	12/16/10	—	
Pratt-SMA-1.05	T00101010019	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/13/2010	12/16/10	—		
	T00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—		
	T00102020009		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—		

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
Pratt-SMA-1.05	T00103010002	Berm	Earthen Berm	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00103010017			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103020013		Base Course Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103020014			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103020015			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103020016			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103020018			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103090004			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00103120008	Curbing	~	~	X	X	04/30/11	12/13/2010	12/16/10	—	
	T00104020006	Rock Berm	~	X	~	X	04/30/11	12/13/2010	12/16/10	—	
	T00104020006	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	T00106010011	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00106010012			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00107010003	Gabion	Gabions	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
T00108020005	Cap	Rock Cap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—	
T-SMA-1	T00202010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00203060003	Berm	Straw Wattles	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00204060006	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/13/2010	12/16/10	—
	T00208010001	Cap	Earth Cap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
T-SMA-2.5	T00304010002	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	T00306010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00306010004			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00306010005			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00308020001	Cap	Rock Cap	X	X	~	~	04/30/11	12/13/2010	12/16/10	—
T-SMA-2.85	T00402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00402020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00403090004	Berm	Curbing	~	~	X	X	04/30/11	12/13/2010	12/16/10	—

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad/Cañada del Buey Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
T-SMA-2.85	T00406010005	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00406010006			X	~	X	~	04/30/11	12/13/2010	12/16/10	—
T-SMA-3	T00502010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00502020006		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00504060001	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/13/2010	12/16/10	—
	T00506020007	Check Dam	Log Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00506020008			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
T-SMA-4	T00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00602020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00603030009	Berm	Log Berm	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00603030010			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00603090005			Curbing	~	~	X	X	04/30/11	12/13/2010	12/16/10
	T00604060004	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/13/2010	12/16/10	—
	T00606010006	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00606010007			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00606010008			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
T00607010003	Gabion	Gabions	~	X	~	X	04/30/11	12/13/2010	12/16/10	—	
T-SMA-5	T00702010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00702020007		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00703020003	Berm	Base Course Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00703020008			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00703120010			Rock Berm	~	X	~	X	04/30/11	12/13/2010	12/16/10

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Table D-3, cont'd. Baseline Control Measures Installed at Mortandad Watershed SMAs

SMA Number	BMP ID	Type of Control	Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Cert Date	Retired Date
T-SMA-5	T00706010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00706010004			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00706010009			~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00706010011			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
T-SMA-6.8	T00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00803060002	Berm	Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00803100003		Gravel Bags	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
T-SMA-7	T00901010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/13/2010	12/16/10	06/15/11
	T00901030010		Hydromulch	X	~	~	~	—	6/15/2011	—	—
	T00902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T00903010009	Berm	Earthen Berm	~	~	X	X	—	6/15/2011	—	—
	T00903020008		Base Course Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T00903060004		Straw Wattles	~	~	X	X	04/30/11	12/13/2010	12/16/10	06/15/11
	T00906010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00906010003			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
	T00906010006			~	X	~	X	04/30/11	12/13/2010	12/16/10	—
T00906010007	~			X	~	X	04/30/11	12/13/2010	12/16/10	—	
T-SMA-7.1	T01002010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	12/16/10	—
	T01003010007	Berm	Earthen Berm	~	X	~	X	—	6/15/2011	—	—
	T01003010008			~	X	~	X	—	6/15/2011	—	—
	T01003020005		Base Course Berm	~	~	X	X	04/30/11	12/13/2010	12/16/10	—
	T01003060003		Straw Wattles	~	X	~	X	04/30/11	12/13/2010	12/16/10	06/15/11
	T01003060004			~	X	~	X	04/30/11	12/13/2010	12/16/10	06/15/11
	T01006020006	Check Dam	Log Check Dam	~	X	~	X	04/30/11	12/13/2010	12/16/10	—

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Table D-4. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
2M-SMA-1	E00102010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	E00102020006		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	E00103010012	Berm	Earthen Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	E00103060002		Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	E00104060010	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	E00104060011			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	E00106010007	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	E00106010008			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	E00106010009			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	E00107010003	Gabion	Gabions	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
E00107010004	~			X	~	X	11/01/10	11/1/2010	12/01/10	—	
2M-SMA-1.42	E00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E00202020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E00203010009	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00203010010			~	X	~	X	04/30/11	12/13/2010	01/12/11	11/30/11
	E00203120003		Rock Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00206010006	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00206010007			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00206010008			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
2M-SMA-1.43	E00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	E00302030002		Permanent Vegetation Vegetative Buffer Strip	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	E00304060004	Channel/Swale	Rip Rap	X	X	~	~	—	9/7/2011	—	—
	E00306010003	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date	
2M-SMA-1.44	E00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—	
	E00402020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	01/12/11	—	
	E00403010006	Berm	Earthen Berm	~	~	X	X	—	11/17/2011	—	—	
	E00403060003	Berm	Straw Wattles	~	~	X	X	04/30/11	12/13/2010	01/12/11	—	
	E00403060004			~	~	X	X	04/30/11	12/13/2010	01/12/11	—	
	E00403060005			~	X	~	X	04/30/11	12/13/2010	01/12/11	—	
2M-SMA-1.45	E00501030011	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	12/13/2010	01/12/11	08/30/11	
	E00501060009		Erosion Control Blanket	X	~	~	~	04/30/11	12/13/2010	01/12/11	—	
	E00501060010			X	~	~	~	04/30/11	12/13/2010	01/12/11	—	
	E00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—	
	E00503010007	Berm	Earthen Berm	~	X	~	X	04/30/11	12/13/2010	01/12/11	—	
	E00503010008			~	X	~	X	04/30/11	12/13/2010	01/12/11	—	
	E00503010014			~	X	~	X	—	10/31/2011	—	—	
	E00503010015			~	X	~	X	—	10/31/2011	—	—	
	E00503060002			Straw Wattles	~	X	~	X	04/30/11	12/13/2010	01/12/11	10/31/11
	E00503060003				~	X	~	X	04/30/11	12/13/2010	01/12/11	10/31/11
	E00503060005				~	X	~	X	04/30/11	12/13/2010	01/12/11	10/31/11
	E00503060006				~	X	~	X	04/30/11	12/13/2010	01/12/11	10/31/11
	E00503060012				~	~	X	X	04/30/11	12/13/2010	01/12/11	08/29/11
E00503060013	~				~	X	X	—	8/29/2011	—	—	
2M-SMA-1.5	E00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—	
	E00602030003		Permanent Vegetation Vegetative Buffer Strip	X	X	~	X	11/01/10	11/1/2010	12/01/10	—	
	E00604040002	Channel/Swale	Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—	

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
2M-SMA-1.65	E00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E00703010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00703010005			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
2M-SMA-1.67	E00801010006	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	E00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	E00802020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	E00803010014	Berm	Earthen Berm	~	X	~	X	—	10/31/2011	—	—
	E00803010015			~	X	~	X	—	10/31/2011	—	—
	E00803060003	Straw Wattles		~	~	X	X	04/30/11	3/29/2011	04/28/11	09/12/11
	E00803060004			~	X	~	X	04/30/11	3/29/2011	04/28/11	09/12/11
	E00803060005			~	~	X	X	04/30/11	3/29/2011	04/28/11	10/31/11
	E00803060009			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	E00803060010			~	~	X	X	04/30/11	3/29/2011	04/28/11	10/31/11
	E00803060011			~	~	X	X	04/30/11	3/29/2011	04/28/11	10/31/11
	E00803060012			~	~	X	X	—	9/12/2011	—	10/31/11
	E00803060013			~	X	~	X	—	9/12/2011	—	10/31/11
2M-SMA-1.7	E00902020004	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E00903060006	Berm	Straw Wattles	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00903060007			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E00903120005			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
2M-SMA-1.8	E01002020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E01003040003	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E01006010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01006010005			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01006010006			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01006010007			~	X	~	X	04/30/11	12/13/2010	01/12/11	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
2M-SMA-1.9	E01103090001	Berm	Curbing	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E01103100002		Gravel Bags	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E01103100003			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
2M-SMA-2	E01202010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E01202020004		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E01203060007	Berm	Straw Wattles	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01203060008			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01203060009			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01203090006		Curbing	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E01204060001	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/13/2010	01/12/11	—
E01207020010	Gabion	Gabion Blanket	X	X	~	~	04/30/11	12/13/2010	01/12/11	—	
2M-SMA-2.2	E01303090002	Berm	Curbing	~	~	X	~	11/01/10	11/1/2010	11/23/11	—
	E01304020003	Channel/Swale	Concrete/Asphalt Channel/Swale	X	X	~	~	11/01/10	11/1/2010	11/23/11	—
	E01306010004	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	11/23/11	—
	E01306010005			~	X	~	X	11/01/10	11/1/2010	11/23/11	—
2M-SMA-2.5	E01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E01503010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	E01503010005			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
2M-SMA-3	E01402010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	E01403060005	Berm	Straw Wattles	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01403060006			~	X	~	X	04/30/11	12/13/2010	01/12/11	08/17/11
	E01403060007			~	~	X	X	04/30/11	12/13/2010	01/12/11	07/08/11
	E01403060008			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01403060009			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	E01403060010			~	~	X	X	—	7/8/2011	—	—
	E01403060011			~	X	~	X	—	8/17/2011	—	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
3M-SMA-0.2	H00102020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	H00103010005	Berm	Earthen Berm	~	~	X	X	—	9/15/2011	—	—
	H00106010002	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	H00106010004			~	~	X	X	11/01/10	11/1/2010	12/01/10	09/15/11
3M-SMA-0.4	H00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	H00203010003	Berm	Earthen Berm	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00203010004			~	X	~	X	—	9/15/2011	—	—
	H00203050002		Silt Dike	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
3M-SMA-0.5	H00301030015	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	H00302010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	H00303010014	Berm	Earthen Berm	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00304060001	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	H00304060004			X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	H00306010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00306010005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010006			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010007			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010008			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010009			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010010			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010011			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00306010012			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
H00306010013	~			X	~	X	04/30/11	12/22/2010	01/12/11	—	
H00306010016	~	~	X	X	04/30/11	12/22/2010	01/12/11	—			

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
3M-SMA-0.6	H00401010025	Seed and Mulch	Seed and Wood Mulch	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	H00401030028		Hydromulch	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	H00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	H00402020026		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	H00403060002	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060003			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060004			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060005			~	~	X	X	04/30/11	12/22/2010	01/12/11	09/08/11
	H00403060006			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060007			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060008			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060009			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060010			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060011			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060012			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060013			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060014			~	~	X	X	04/30/11	12/22/2010	01/12/11	09/08/11
	H00403060015			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060017			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060018			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060019			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060020			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060021			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060022			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060023			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	H00403060024			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	H00403060027			~	X	~	X	04/30/11	12/22/2010	01/12/11	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
3M-SMA-2.6	H00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	H00502020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	H00502030004		Permanent Vegetation Vegetative Buffer Strip	X	X	~	X	04/30/11	3/29/2011	04/28/11	—
	H00503120005	Berm	Rock Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	H00504040003	Channel/Swale	Culvert	~	~	X	~	04/30/11	3/29/2011	04/28/11	—
	H00506010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
3M-SMA-4	H00602010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	H00603010007	Berm	Earthen Berm	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	H00603010008			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	H00604020009	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	04/30/11	12/13/2010	01/12/11	—
	H00604060005		Rip Rap	X	~	X	~	04/30/11	12/13/2010	01/12/11	—
	H00604060006		X	X	~	~	04/30/11	12/13/2010	01/12/11	—	
	H00607010002	Gabion	Gabions	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
PJ-SMA-1.05	J00101010007	Seed and Mulch	Seed and Wood Mulch	X	X	~	~	11/01/10	11/1/2010	12/01/10	08/08/11
	J00101010015			X	~	~	~	—	4/15/2011	—	—
	J00102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00103060004	Berm	Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	09/12/11
	J00103060005			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00103060006			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00103060016			~	X	~	X	—	9/12/2011	—	—

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APPENDIX D

Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-1.05	J00104050008	Channel/Swale	Water Bar	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J00104050009			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00104050012			X	~	X	~	—	4/4/2011	—	—
	J00104050013			X	~	X	~	—	4/4/2011	—	—
	J00104050014			X	~	X	~	—	4/4/2011	—	—
	J00104060011	Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—	
	J00106010010	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-2	J00201060010	Seed and Mulch	Erosion Control Blanket	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00201060011			X	~	X	~	11/01/10	11/1/2010	12/01/10	08/29/11
	J00201060012			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00201060013			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00202020004		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00203010006	Berm	Earthen Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00203010007			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00203010008			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00203010009			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00206010014	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-3.05	J00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	J00303040008	Berm	Asphalt Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	J00306010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	J00306010007			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	J00306010009			~	X	~	X	—	12/12/2011	—	—
PJ-SMA-4.05	J00402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-4.05	J00403010007	Berm	Earthen Berm	~	~	X	X	—	10/31/2011	—	—
	J00403060003		Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10	10/31/11
	J00403060004			~	~	X	X	11/01/10	11/1/2010	12/01/10	10/31/11
	J00403060005			~	~	X	X	11/01/10	11/1/2010	12/01/10	10/31/11
	J00406010006	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-5	J00502010006	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00503060002	Berm	Straw Wattles	~	~	X	X	11/01/10	11/1/2010	12/01/10	08/30/11
	J00503060013			~	~	X	X	—	8/30/2011	—	—
	J00503060014			~	~	X	X	—	9/13/2011	—	—
	J00504010003	Channel/Swale	Earthen Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00506010008	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00506010009			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00506010010			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00506010011			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00506010012			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00506030004	Check Dam	Juniper Bales	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
J00506030007	~			~	X	X	11/01/10	11/1/2010	12/01/10	—	
PJ-SMA-5.1	J00602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	J00603060005	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	07/21/11
	J00603060006			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	J00603060008			~	~	X	X	—	7/21/2011	—	—
	J00604010004	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
J00606010007	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
PJ-SMA-6	J00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00703010009	Berm	Earthen Berm	~	X	~	X	—	10/31/2011	—	—
	J00703010010			~	X	~	X	—	10/31/2011	—	—
	J00703010011			~	X	~	X	—	10/31/2011	—	—
	J00703120012		Rock Berm	~	~	X	X	—	11/2/2011	—	—

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APPENDIX D

Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-6	J00706010002	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00706010003			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00706010004			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00706010005			~	X	~	X	11/01/10	11/1/2010	12/01/10	10/31/11
	J00706010006			~	X	~	X	11/01/10	11/1/2010	12/01/10	10/31/11
	J00706010007			~	X	~	X	11/01/10	11/1/2010	12/01/10	10/31/11
	J00706030008	Juniper Bales	~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
PJ-SMA-7	J00801060005	Seed and Mulch	Erosion Control Blanket	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00803010004	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00804010002	Channel/Swale	Earthen Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00804040003		Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-8	J00901060007	Seed and Mulch	Erosion Control Blanket	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J00901060008			X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J00902010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J00903010006	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00903010009			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00904020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00904060001		Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00906010002	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J00906010004			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-9	J01002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J01003010002	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J01004060001	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-9	J01006010006	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J01006010007			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J01006010008			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J01006010009			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-10	J01202010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	J01203020001	Berm	Base Course Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01204060004	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/13/2010	01/12/11	—
	J01206010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
PJ-SMA-11	J01301030015	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	12/13/2010	01/12/11	08/29/11
	J01302010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	J01303010003	Berm	Earthen Berm	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01303010004			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01303060009		Straw Wattles	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01303060010			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01303060011			~	X	~	X	04/30/11	12/13/2010	01/12/11	09/28/11
	J01303060012			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01303060013			~	X	~	X	04/30/11	12/13/2010	01/12/11	08/29/11
	J01303060014			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01303060016			~	X	~	X	—	9/28/2011	—	—
	J01306010005			Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010
	J01306010006	~	X			~	X	04/30/11	12/13/2010	01/12/11	—
	J01306010007	~	X			~	X	04/30/11	12/13/2010	01/12/11	—
J01306010008	~	X	~			X	04/30/11	12/13/2010	01/12/11	—	
PJ-SMA-11.1	J01401030013	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	12/13/2010	01/12/11	08/29/11
	J01402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	J01403010003	Berm	Earthen Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01403060014		Straw Wattles	~	X	~	X	04/30/11	12/13/2010	01/12/11	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-11.1	J01406010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010005			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010006			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010007			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010008			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010009			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010010			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010011			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
	J01406010012			~	X	~	X	04/30/11	12/13/2010	01/12/11	—
PJ-SMA-13	J01501010004	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	J01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	J01503010002	Berm	Earthen Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	J01503010003			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
PJ-SMA-13.7	J01602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	J01602030003		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	04/30/11	12/13/2010	01/12/11	—
	J01606010004	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01606010005			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01606010006			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01606010007			~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J01607010002	Gabion	Gabions	X	X	~	~	04/30/11	12/13/2010	01/12/11	—
PJ-SMA-14	J01701010004	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	J01703010005	Berm	Earthen Berm	~	X	~	X	—	11/21/2011	—	—
	J01703010006			~	X	~	X	—	11/21/2011	—	—
	J01703020002	Base Course Berm	Base Course Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	J01703020003			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	J01708010001			Cap	Earth Cap	X	~	~	~	04/30/11	3/29/2011

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-14.2	J01802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J01802030002		Permanent Vegetation Vegetative Buffer Strip	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J01803120004	Berm	Rock Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-14.3	J01902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J01902030002		Permanent Vegetation Vegetative Buffer Strip	X	X	~	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-14.4	J02001010009	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	J02002010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	J02002030002		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	04/30/11	3/29/2011	04/28/11	—
	J02003010008	Berm	Earthen Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	J02003040006		Asphalt Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
PJ-SMA-14.6	J02101060006	Seed and Mulch	Erosion Control Blanket	X	~	~	~	—	11/16/2011	—	—
	J02102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02102030002		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	11/01/10	11/1/2010	12/01/10	11/16/11
	J02103010005	Berm	Earthen Berm	~	X	~	X	—	11/16/2011	—	—
	J02106010003	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J02106010004			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-14.8	J02202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/13/2010	01/12/11	—
	J02202030004		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	04/30/11	12/13/2010	01/12/11	—
	J02203020005	Berm	Base Course Berm	~	~	X	X	04/30/11	12/13/2010	01/12/11	—
	J02203060006		Straw Wattles	~	X	~	X	04/30/11	12/13/2010	01/12/11	—

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Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-16	J02302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02303060002	Berm	Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
PJ-SMA-17	J02402010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02404060006	Channel/Swale	Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J02404060007			X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J02405010005	Sediment Traps and Basin	Sediment Trap	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
J02406010004	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—	
PJ-SMA-18	J02601060002	Seed and Mulch	Erosion Control Blanket	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J02602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02604010009	Channel/Swale	Earthen Channel/Swale	X	~	X	~	—	9/27/2011	—	—
	J02604050008		Water Bar	X	~	X	~	—	12/7/2010	—	09/27/11
	J02604060007		Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J02605010005	Sediment Traps and Basin	Sediment Trap	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J02606010004	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
J02606010006	~			X	~	X	11/01/10	11/1/2010	12/01/10	—	
PJ-SMA-19	J02502010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02504020004	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J02504020006			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J02504060010			Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10
	J02505020002	Sediment Traps and Basin	Sediment Basin	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J02506010005	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J02506010007			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J02506010008			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J02506010009			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
J02507010001	Gabion	Gabions	~	X	~	X	11/01/10	11/1/2010	12/01/10	—	

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APPENDIX D

Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PJ-SMA-20	J02702010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	11/16/2010	12/16/10	—
	J02703090001	Berm	Curbing	~	X	~	X	04/30/11	11/16/2010	12/16/10	—
	J02704060006	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	11/16/2010	12/16/10	—
	J02708030005	Cap	Concrete/Asphalt Cap	X	~	X	~	04/30/11	11/16/2010	12/16/10	—
	J00903010009			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J00904020005	Channel/Swale	Concrete/Asphalt Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00904060001		Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J00906010002	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
J00906010004	~			~	X	X	11/01/10	11/1/2010	12/01/10	—	
STRM-SMA-1.05	J02802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02802030003		Permanent Vegetation Vegetative Buffer Strip	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J02804060006	Channel/Swale	Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	J02806010001	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J02806010004			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J02806010005			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
STRM-SMA-1.5	J02901010007	Seed and Mulch	Seed and Wood Mulch	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	J02902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J02902020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—

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APPENDIX D

Table D-4, cont'd. Baseline Control Measures Installed at Pajarito Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
STRM-SMA-1.5	J02903010009	Berm	Earthen Berm	~	~	X	X	—	8/31/2011	—	—
	J02903010010			~	~	X	X	—	8/31/2011	—	—
	J02903010011			~	~	X	X	—	8/31/2011	—	—
	J02903060003		Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J02903060004			~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	J02903060005			~	~	X	X	11/01/10	11/1/2010	12/01/10	09/08/11
	J02903060006			~	~	X	X	11/01/10	11/1/2010	12/01/10	07/21/11
	J02903060008			~	~	X	X	—	7/21/2011	—	—
	J02903060012			~	~	X	X	—	9/8/2011	—	—
STRM-SMA-4.2	J03002010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J03003010003	Berm	Earthen Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J03004010002	Channel/Swale	Earthen Channel/Swale	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
STRM-SMA-5.05	J03102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	J03103020004	Berm	Base Course Berm	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	J03103050005		Silt Dike	~	X	~	X	11/01/10	11/1/2010	12/01/10	10/21/11
	J03103050006			~	~	X	X	11/01/10	11/1/2010	12/01/10	10/21/11
	J03103060007		Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	09/12/11
	J03103060008			~	X	~	X	—	9/12/2011	—	10/21/11

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Table D-5. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date	
CDV-SMA-1.2	V00101010003	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00101010004			X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00103020008	Berm	Base Course Berm	~	X	~	X	04/30/11	12/15/2010	01/12/11	—	
	V00103060005			Straw Wattles	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00103060006				~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00103060009				~	~	X	X	—	9/2/2011	—	—
	V00104060001	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/15/2010	01/12/11	—	
V00106010007	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/15/2010	01/12/11	—		
CDV-SMA-1.3	V00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00203020002	Berm	Base Course Berm	~	X	~	X	04/30/11	12/15/2010	01/12/11	—	
CDV-SMA-1.4	V00301010025	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00302010007	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00302020005		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/15/2010	01/12/11	—	
	V00303020017	Berm	Base Course Berm	~	~	X	X	04/30/11	12/15/2010	01/12/11	—	
	V00303060018			Straw Wattles	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00303060019				~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00303060020				~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00303060021				~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00303060022				~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00303060023				~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00303060024				~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00303060029				~	~	X	X	—	8/11/2011	—	—
	V00303060030				~	~	X	X	—	8/11/2011	—	—
	V00303060031				~	~	X	X	—	8/11/2011	—	—
V00303060032	~				~	X	X	—	8/11/2011	—	—	
V00303060033	~	~	X	X	—	8/11/2011	—	—				

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APPENDIX D

Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date	
CDV-SMA-1.4	V00303060034	Berm	Straw Wattles	~	~	X	X	—	8/11/2011	—	—	
	V00303060035			~	~	X	X	—	8/11/2011	—	—	
	V00303060036			~	~	X	X	—	8/11/2011	—	—	
	V00303060037			~	~	X	X	—	8/11/2011	—	—	
	V00303060038			~	~	X	X	—	8/11/2011	—	—	
	V00303060049			~	~	X	X	—	8/29/2011	—	—	
	V00303060050			~	~	X	X	—	8/29/2011	—	—	
	V00303060051			~	~	X	X	—	8/29/2011	—	—	
	V00303060052			~	~	X	X	—	8/29/2011	—	—	
	V00303060053			~	~	X	X	—	8/29/2011	—	—	
	V00303060054			~	~	X	X	—	8/29/2011	—	—	
	V00303120013			Rock Berm	~	~	X	X	04/30/11	12/15/2010	01/12/11	08/03/11
	V00303120014				~	~	X	X	04/30/11	12/15/2010	01/12/11	08/03/11
	V00303120015	~	~		X	X	04/30/11	12/15/2010	01/12/11	08/03/11		
	V00304060001	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/15/2010	01/12/11	08/03/11	
	V00304060055			X	X	~	~	—	8/29/2011	—	—	
	V00306010004	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/15/2010	01/12/11	—	
	V00306010006			~	X	~	X	04/30/11	12/15/2010	01/12/11	08/03/11	
	V00306010008			~	X	~	X	04/30/11	12/15/2010	01/12/11	08/03/11	
	V00306010009			~	X	~	X	04/30/11	12/15/2010	01/12/11	08/03/11	
	V00306010010			~	X	~	X	04/30/11	12/15/2010	01/12/11	08/03/11	
	V00306010011			~	X	~	X	04/30/11	12/15/2010	01/12/11	08/13/11	
	V00306010012			~	X	~	X	04/30/11	12/15/2010	01/12/11	—	
V00306010016	~			~	X	X	04/30/11	12/15/2010	01/12/11	—		
V00306010026	~			~	X	X	04/30/11	12/15/2010	01/12/11	—		
V00306010027	~			~	X	X	04/30/11	12/15/2010	01/12/11	08/03/11		
V00306010028	~			~	X	X	04/30/11	12/15/2010	01/12/11	08/03/11		
V00306010039	~			X	~	X	—	8/11/2011	—	—		
V00306010040	~			X	~	X	—	8/11/2011	—	—		
V00306010041	~			X	~	X	—	8/29/2011	—	—		
V00306010042	~			X	~	X	—	8/29/2011	—	—		

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APPENDIX D

Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-1.4	V00306010043	Check Dam	Rock Check Dam	~	~	X	X	—	8/29/2011	—	—
	V00306010044			~	X	~	X	—	8/29/2011	—	—
	V00306010045			~	X	~	X	—	8/29/2011	—	—
	V00306010046			~	X	~	X	—	8/29/2011	—	—
	V00306010047			~	~	X	X	—	8/29/2011	—	—
	V00306010056			~	~	X	X	—	8/29/2011	—	—
	V00306010057			~	~	X	X	—	8/29/2011	—	—
CDV-SMA-1.45	V00402020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00403060002	Berm	Straw Wattles	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00403060003			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
CDV-SMA-1.7	V00501010004	Seed and Mulch	Seed and Wood Mulch	X	X	~	~	04/30/11	12/15/2010	01/12/11	—
	V00502010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00504060015	Channel/Swale	Rip Rap	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00506010005	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00506010006			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00506010007			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00506010008			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00506010009			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00506010010			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00506010011			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00506010012			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00506010013			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00506010014			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
CDV-SMA-2	V00601010011	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	V00602010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	4/26/2011	05/16/11	—
	V00602020005		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	4/26/2011	05/16/11	—

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APPENDIX D

Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-2	V00603010006	Berm	Earthen Berm	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	V00603010007			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	V00603010008			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	V00603010009			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	V00603010010			~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	V00603090001		Curbing	~	~	X	X	04/30/11	4/26/2011	05/16/11	—
	V00604060003	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	4/26/2011	05/16/11	—
	V00606010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	4/26/2011	05/16/11	—
	V00608020012	Cap	Rock Cap	X	X	~	~	04/30/11	4/26/2011	05/16/11	—
CDV-SMA-2.3	V00702010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00702020001		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00703060007	Berm	Straw Wattles	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00703060008			~	~	X	X	04/30/11	12/15/2010	01/12/11	10/14/11
	V00703060009			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00703060010			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00703060011			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00703060012			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00703060013			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00703060014			~	X	~	X	04/30/11	12/15/2010	01/12/11	09/26/11
	V00703060015			~	X	~	X	04/30/11	12/15/2010	01/12/11	09/26/11
	V00703060017			~	X	~	X	—	9/26/2011	—	—
	V00703060018			~	X	~	X	—	9/26/2011	—	—
	V00706010005			Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/15/2010
	V00706010016	~	X			~	X	—	9/1/2011	—	—
	V00706010019	~	~			X	X	—	10/14/2011	—	—
	V00706010020	~	~			X	X	—	10/14/2011	—	—
	V00707010002	Gabion	Gabions	~	X	~	X	04/30/11	12/15/2010	01/12/11	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-2.41	V00802010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00803060002	Berm	Straw Wattles	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00804040011	Channel/Swale	Culvert	X	~	X	~	04/30/11	12/15/2010	01/12/11	—
	V00804060009		Rip Rap	X	~	X	~	04/30/11	12/15/2010	01/12/11	—
	V00804060010		X	~	X	~	04/30/11	12/15/2010	01/12/11	—	
	V00806030007	Check Dam	Juniper Bales	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00806030008			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
CDV-SMA-2.42	V008A01030015	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	12/15/2010	01/12/11	09/14/11
	V008A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V008A03010006	Berm	Earthen Berm	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03010016			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060007		Straw Wattles	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060008			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060009			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060010			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060011			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060012			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V008A03060014			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V008A04060002			Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/15/2010
	V008A04060005	X	X			~	~	04/30/11	12/15/2010	01/12/11	—
	V008A04060018	X	~			X	~	—	10/14/2011	—	—
	V008A04060019	X	X			~	~	—	10/14/2011	—	—
	V008A06010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V008A06010017			~	~	X	X	—	9/12/2011	—	—
	V008A07010003	Gabion	Gabions	~	X	~	X	04/30/11	12/15/2010	01/12/11	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-2.5	V00901010003	Seed and Mulch	Seed and Wood Mulch	X	X	~	~	04/30/11	12/15/2010	01/12/11	—
	V00901010004			X	~	X	~	04/30/11	12/15/2010	01/12/11	—
	V00901010023			X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00901010034			X	~	~	~	—	10/17/2011	—	—
	V00902010012	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V00903010011	Berm	Earthen Berm	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V00903060019		Straw Wattles	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00903060020		~	X	~	X	04/30/11	12/15/2010	01/12/11	—	
	V00903060021		~	X	~	X	04/30/11	12/15/2010	01/12/11	—	
	V00903060024		~	X	~	X	—	9/19/2011	—	—	
	V00903060025		~	X	~	X	—	9/19/2011	—	—	
	V00903060026		~	~	X	X	—	9/19/2011	—	—	
	V00903060027		~	~	X	X	—	9/19/2011	—	—	
	V00904060005		Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/15/2010	01/12/11
	V00904060006	X			X	~	~	04/30/11	12/15/2010	01/12/11	—
	V00904060007	X			~	X	~	04/30/11	12/15/2010	01/12/11	—
	V00904060009	X			~	X	~	04/30/11	12/15/2010	01/12/11	—
	V00906010015	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00906010016			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V00906010017			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
V00906010018	~			~	X	X	04/30/11	12/15/2010	01/12/11	—	
V00906010022	~			~	X	X	04/30/11	12/15/2010	01/12/11	—	
V00906010028	~			~	X	X	—	9/19/2011	—	—	
V00906010029	~			~	X	X	—	9/19/2011	—	—	
V00906010030	~			~	X	X	—	9/19/2011	—	—	
V00906010031	~			~	X	X	—	9/19/2011	—	—	
V00906010032	~			X	~	X	—	10/17/2011	—	—	
V00906010033	~			~	X	X	—	10/20/2011	—	—	
V00906030013	Juniper Bales			~	X	~	X	04/30/11	12/15/2010	01/12/11	09/19/11
V00906030014				~	X	~	X	04/30/11	12/15/2010	01/12/11	09/19/11

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-2.51	V009A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V009A02020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V009A03020005	Berm	Base Course Berm	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03020012			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060007		Straw Wattles	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060008			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060009			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060010			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060011			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060018			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060019			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060020			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060021			~	~	X	X	04/30/11	12/15/2010	01/12/11	09/06/11
	V009A03060022			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060023			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060024			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060025			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060026			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060027			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A03060028			~	~	X	X	—	9/6/2011	—	—
	V009A06010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V009A06010004			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V009A06010006			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A06010013			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V009A06010014			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V009A06010015			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V009A06010016			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V009A06030017		~	~	X	X	04/30/11	12/15/2010	01/12/11	—	

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-3	V01001010012	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	—	11/21/2011	—	—
	V01002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V01003010010	Berm	Earthen Berm	~	X	~	X	—	11/21/2011	—	—
	V01003010011			~	X	~	X	—	11/21/2011	—	—
	V01003120005		Rock Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	V01003120009			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	V01004060007	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	V01004060008			X	X	~	~	04/30/11	1/12/2011	02/11/11	11/21/11
V01006010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
CDV-SMA-4	V01101010004	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V01102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V01103120002	Berm	Rock Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	V01106010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
CDV-SMA-6.01	V01201010010	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V01201060007		Erosion Control Blanket	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V01202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V01203010006	Berm	Earthen Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	V01203020003		Base Course Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	V01203060008		Straw Wattles	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	V01203060009		~	~	X	X	04/30/11	1/12/2011	02/11/11	—	
	V01203130004		S-Fence	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
V01203130005	~			X	~	X	04/30/11	1/12/2011	02/11/11	—	
CDV-SMA-6.02	V012A01010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	—	11/22/2011	—	—
	V012A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	V012A03010002	Berm	Earthen Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	V012A03010003			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	V012A03010004			~	X	~	X	—	11/22/2011	—	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CDV-SMA-7	V01302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V01303010006	Berm	Earthen Berm	~	~	X	X	04/30/11	12/15/2010	01/12/11	—
	V01303010007			~	X	~	X	04/30/11	12/15/2010	01/12/11	—
CDV-SMA-8	V01402020001	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	V01402030002		Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	V01403010007	Berm	Earthen Berm	~	~	X	X	—	11/14/2011	—	—
	V01403010008			~	~	X	X	—	11/14/2011	—	—
	V01406010003	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	V01406010004			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	V01406010005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
V01406010006	~			~	X	X	04/30/11	12/22/2010	01/12/11	—	
CDV-SMA-8.5	V01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/15/2010	01/12/11	—
	V01503010004	Berm	Earthen Berm	~	X	~	X	04/30/11	12/15/2010	01/12/11	—
	V01503010005			~	~	X	X	04/30/11	12/15/2010	01/12/11	—
CDV-SMA-9.05	V01602010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	V01603010002	Berm	Earthen Berm	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	V01603010003			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	V01603010004			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
F-SMA-2	F00102010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	F00103010010	Berm	Earthen Berm	~	X	~	X	—	12/01/2011	—	—
	F00103010011			~	X	~	X	—	12/01/2011	—	—
	F00103010012			~	X	~	X	—	12/01/2011	—	—
	F00103010013			~	X	~	X	—	12/01/2011	—	—
	F00103010014			~	X	~	X	—	12/01/2011	—	—
	F00103010015			~	X	~	X	—	12/01/2011	—	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
F-SMA-2	F00103120008	Berm	Rock Berm	~	X	~	X	04/30/11	12/22/2010	01/12/11	12/01/11
	F00104010001	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	F00104040003		Culvert	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	F00106010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	09/07/11
	F00106010005			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	F00106010006			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	F00106010007			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	F00106010009			~	X	~	X	—	9/7/2011	—	—
PT-SMA-0.5	I00101010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I00103010002	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00103010003			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	I00106010004	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
PT-SMA-1	I00201010022	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I00202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I00203010018	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00203010019			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00203010020			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00203010021			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00203120012		Rock Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	I00203120013			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	I00203120014			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00203120015			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00203120016	~	X	~	X	04/30/11	3/29/2011	04/28/11	—		

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PT-SMA-1.7	I00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I00303060002	Berm	Straw Wattles	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00303060003			~	X	~	X	04/30/11	3/29/2011	04/28/11	09/22/11
	I00303060004			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00303060005			~	~	X	X	04/30/11	3/29/2011	04/28/11	09/22/11
	I00303060008			~	X	~	X	04/30/11	3/29/2011	04/28/11	08/18/11
	I00303060009			~	X	~	X	04/30/11	3/29/2011	04/28/11	07/08/11
	I00303060012			~	X	~	X	—	7/8/2011	—	—
	I00303060013			~	X	~	X	—	8/18/2011	—	—
	I00303060014			~	X	~	X	—	9/22/2011	—	—
	I00303060015			~	~	X	X	—	9/22/2011	—	—
	I00306010010	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
I00306010011	~			~	X	X	04/30/11	3/29/2011	04/28/11	—	
PT-SMA-2	I00402010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I00403010009	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I00403120010		Rock Berm	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
PT-SMA-2.01	I004A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	I004A03010003	Berm	Earthen Berm	~	X	~	X	04/30/11	3/29/2011	04/28/11	—
	I004A04050002	Channel/Swale	Water Bar	X	~	X	~	04/30/11	3/29/2011	04/28/11	—
PT-SMA-3	I00504040005	Channel/Swale	Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	I00504060004		Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	I00506010006	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
PT-SMA-4.2	I00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	I00702020006		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	I00704040005	Channel/Swale	Culvert	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	I00704060002		Rip Rap	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
	I00704060003			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	I00706010004	Check Dam	Rock Check Dam	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
W-SMA-1	W00102010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	W00102020004		Permanent Vegetation Forested/Needle Cast	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	W00104060001	Channel/Swale	Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	W00104060011			X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	W00106010002	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	W00106010003			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	W00106010008			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	W00106010009			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
W00106010010	~			X	~	X	11/01/10	11/1/2010	12/01/10	—	
W00106010010	~			X	~	X	11/01/10	11/1/2010	12/01/10	—	
W-SMA-1.5	W00202010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00203060004	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00203060005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00204060007	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	W00204070002		Vegetated Swale	X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	W00204070003			X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	W00206010008	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00206010009			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00206010010			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00206010011			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W00206010012	~			X	~	X	04/30/11	12/22/2010	01/12/11	—	
W00206010012	~			X	~	X	04/30/11	12/22/2010	01/12/11	—	

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-2.05	W00302010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00302020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00303060003	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00303120006		Rock Berm	~	X	~	X	—	10/13/2011	—	—
	W00306010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00306010005			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-3.5	W00402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00403060004	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00403060005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00403060006			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00404060003	Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/22/2010	01/12/11	—
	W00406010007	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-4.1	W00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00503060002	Berm	Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00503060003			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00503060004			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00503060005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-5	W00601010002	Seed and Mulch	Seed and Wood Mulch	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	W00602010009	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00603060001	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00603060018			~	~	X	X	04/30/11	12/22/2010	01/12/11	09/06/11
	W00603060019			~	~	X	X	—	9/6/2011	—	—
	W00604040011	Channel/Swale	Culvert	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	W00604060006			X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	W00604060007			X	~	X	~	04/30/11	12/22/2010	01/12/11	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-5	W00606010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00606010012			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00606010013			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00606010014			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00606010015			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00606010016			~	X	~	X	04/30/11	12/22/2010	01/12/11	09/06/11
	W00606010017			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00606010020			~	X	~	X	—	9/1/2011	—	—
	W00606010021			~	X	~	X	—	9/6/2011	—	—
	W00606030005			Gabion	Juniper Bales	~	X	~	X	04/30/11	12/22/2010
	W00607010004	Gabions	~		X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00607010010			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-6	W00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00702020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00703060003	Berm	Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-7	W00801010005	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00802010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00802020009		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00803060010	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00803060011			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00803060012			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00803060013			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00806010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00806010003			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W00806010004			~	X	~	X	04/30/11	12/22/2010	01/12/11	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-7.8	W00902010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W00903010004	Berm	Earthen Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00904060003	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	W00906010001	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00906010005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00906010006			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W00906010007			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-7.9	W01002020002	Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01006010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-8	W01102010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01102020004		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01103010007	Berm	Earthen Berm	~	~	X	X	—	11/14/2011	—	—
	W01103020001		Base Course Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01103020008		~	~	X	X	—	11/14/2011	—	—	
	W01106010002	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01106010005			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01106010006			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-8.7	W01202010004	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01202020002		Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01203020009	Berm	Base Course Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01203060010		Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01206010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01206010007			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01206010008			~	~	X	X	04/30/11	12/22/2010	01/12/11	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-8.71	W012A02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W012A03020003	Berm	Base Course Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W012A03060002			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-9.05	W01302010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01303010003	Berm	Earthen Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01303010010			~	X	~	X	—	11/14/2011	—	—
	W01303010011			~	X	~	X	—	11/14/2011	—	—
	W01303060005			Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11
	W01303060006		~		X	~	X	04/30/11	12/22/2010	01/12/11	09/06/11
	W01303060007		~		X	~	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01303060008		~		X	~	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01303060009		~	X	~	X	—	9/6/2011	—	11/14/11	
	W01304010004	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	W01306010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01306010012			~	X	~	X	—	11/14/2011	—	—
W-SMA-9.5	W01402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010	12/01/10	—
	W01403010006	Berm	Earthen Berm	~	~	X	X	—	11/14/2011	—	—
	W01403010007			~	~	X	X	—	11/14/2011	—	—
	W01403060002		Straw Wattles	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	W01403060003			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	W01403060004			~	~	X	X	11/01/10	11/1/2010	12/01/10	11/14/11
	W01403060005			~	~	X	X	11/01/10	11/1/2010	12/01/10	11/14/11
W-SMA-9.7	W01502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01503060002	Berm	Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01503060003			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01506030004	Check Dam	Juniper Bales	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01506030005			~	~	X	X	04/30/11	12/22/2010	01/12/11	—

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-9.8	W01602010005	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01603020007	Berm	Base Course Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01603060009		Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	07/15/11
	W01603060010		~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01603060011		~	X	~	X	—	7/15/2011	—	—	
	W01604060003	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
W-SMA-9.9	W01701010006	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/22/2010	01/12/11	11/14/11
	W01701010021	Seed and Mulch	Erosion Control Blanket	X	~	~	~	—	11/14/11	—	—
	W01702010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W01703010017	Berm	Earthen Berm	~	X	~	X	—	11/14/11	—	—
	W01703010018			~	X	~	X	—	11/14/11	—	—
	W01703010019			~	X	~	X	—	11/14/11	—	—
	W01703010020			~	X	~	X	—	11/14/11	—	—
	W01703060007	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060008			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060009			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060010			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060011			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060012			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060013			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060014			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060015			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703060016			~	~	X	X	04/30/11	12/22/2010	01/12/11	11/14/11
	W01703090001			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01706030004			Check Dam	Juniper Bales	~	X	~	X	04/30/11	12/22/2010
	W01706030005	~	X			~	X	04/30/11	12/22/2010	01/12/11	11/14/11

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Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date	
W-SMA-10	W01801010015	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/22/2010	01/12/11	—	
	W01801010017			X	~	~	~	04/30/11	12/22/2010	01/12/11	—	
	W01802010009	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—	
	W01803040010	Berm	Asphalt Berm	~	~	X	X	04/30/11	12/22/2010	01/12/11	—	
	W01803040016			~	~	X	X	04/30/11	12/22/2010	01/12/11	—	
	W01803060014			Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01803060018				~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01803060019				~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01803060020				~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01803060021				~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01803090002				Curbing	~	~	X	X	04/30/11	12/22/2010	01/12/11
	W01804060004	Channel/Swale	Rip Rap	X	~	~	~	04/30/11	12/22/2010	01/12/11	—	
	W01804060006			X	~	X	~	04/30/11	12/22/2010	01/12/11	—	
W01804060013	X			~	X	~	04/30/11	12/22/2010	01/12/11	—		
W-SMA-11.7	W01901010039	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	12/22/2010	01/12/11	—	
	W01902010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—	
	W01903010040	Berm	Earthen Berm	~	~	X	X	—	9/22/2011	—	—	
	W01903060009		Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060010			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060011			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060012			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060015			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060016			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060017			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060018			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060019			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060020			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060021			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
	W01903060022			~	X	~	X	04/30/11	12/22/2010	01/12/11	—	
W01903060025	~	~	X	X	04/30/11	12/22/2010	01/12/11	—				

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-11.7	W01903060026	Berm	Straw Wattles	~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060027			~	~	X	X	04/30/11	12/22/2010	01/12/11	08/08/11
	W01903060028			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060029			~	~	X	X	04/30/11	12/22/2010	01/12/11	08/08/11
	W01903060030			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060031			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060032			~	~	X	X	04/30/11	12/22/2010	01/12/11	08/08/11
	W01903060033			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060034			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060035			~	~	X	X	04/30/11	12/22/2010	01/12/11	08/08/11
	W01903060036			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060037			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01903060038			~	~	X	X	04/30/11	12/22/2010	01/12/11	—
	W01904060002			Channel/Swale	Rip Rap	X	X	~	~	04/30/11	12/22/2010
	W01906010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01906010004			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01906010005			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W01906010006			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W01906010007	~			X	~	X	04/30/11	12/22/2010	01/12/11	—	
W01906010008	~			X	~	X	04/30/11	12/22/2010	01/12/11	—	
W-SMA-12.05	W02002010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W02003010015	Berm	Earthen Berm	~	X	~	X	—	9/22/2011	—	—
	W02003010016			~	X	~	X	—	9/22/2011	—	—
	W02003010017			~	X	~	X	—	9/22/2011	—	—
	W02003060004		Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	09/22/11
	W02003060005			~	X	~	X	04/30/11	12/22/2010	01/12/11	08/02/11
	W02003060006			~	X	~	X	04/30/11	12/22/2010	01/12/11	09/22/11
	W02003060007			~	X	~	X	04/30/11	12/22/2010	01/12/11	09/22/11
	W02003060008			~	X	~	X	04/30/11	12/22/2010	01/12/11	09/22/11
	W02003060009			~	X	~	X	04/30/11	12/22/2010	01/12/11	09/22/11
	W02003060010			~	X	~	X	04/30/11	12/22/2010	01/12/11	09/22/11

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-5, cont'd. Baseline Control Measures Installed at Water/Cañon de Valle Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
W-SMA-12.05	W02003060011	Berm	Straw Wattles	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W02003060012			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W02003060013			~	X	~	X	04/30/11	12/22/2010	01/12/11	—
	W02003060014			~	X	~	X	—	8/2/2011	—	09/22/11
	W02004060002	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	12/22/2010	01/12/11	—
	W02006010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—
W-SMA-14.1	W02101010015	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	W02102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	3/29/2011	04/28/11	—
	W02103060002	Berm	Straw Wattles	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02103060003			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02103060004			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02103060005			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02103060006			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02103060007			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02104060014			Channel/Swale	Rip Rap	X	~	X	~	04/30/11	3/29/2011
	W02106010008	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02106010009			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02106010010			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02106010011			~	~	X	X	04/30/11	3/29/2011	04/28/11	—
	W02106010012			~	X	~	X	04/30/11	3/29/2011	04/28/11	—
W02106010013	~			X	~	X	04/30/11	3/29/2011	04/28/11	—	
W-SMA-15.1	W02202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	12/22/2010	01/12/11	—
	W02206010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	12/22/2010	01/12/11	—

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-6. Baseline Control Measures Installed at Ancho Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
A-SMA-1.1	A00103010005	Berm	Earthen Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	A00102030001	Permanent Vegetation	Permanent Vegetation Vegetative Buffer Strip	X	X	~	~	11/01/10	11/1/2010	12/01/10	—
A-SMA-2	A00203010007	Berm	Earthen Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00203010008			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00203060010		Straw Wattles	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00203060015			~	~	X	X	04/30/11	1/12/2011	02/11/11	07/25/11
	A00203060016			~	~	X	X	—	7/25/2011	—	—
	A00204010013	Channel/Swale	Earthen Channel/Swale	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	A00204060004		Rip Rap	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	A00206010011	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00206010012			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
A00202010003	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—	
A-SMA-2.5	A00303010003	Berm	Earthen Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00303060005		Straw Wattles	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00303060006			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00302010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	A00301060004	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
A-SMA-2.7	A00403060005	Berm	Straw Wattles	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00403060006			~	X	~	X	04/30/11	1/12/2011	02/11/11	09/13/11
	A00403060011			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00403060012			~	X	~	X	—	9/13/2011	—	—
	A00404040003	Channel/Swale	Culvert	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	A00404010001		Earthen Channel/Swale	X	~	X	~	04/30/11	1/12/2011	02/11/11	—

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APPENDIX D

Table D-6, cont'd. Baseline Control Measures Installed at Ancho Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
A-SMA-2.7	A00406010007	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00406010008			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00406010009			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00406010010			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00402010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
A-SMA-2.8	A00503010002	Berm	Earthen Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00502010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	A00501030003	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
A-SMA-3	A00603010004	Berm	Earthen Berm	~	~	X	X	11/01/10	11/1/2010	12/01/10	—
	A00604010006	Channel/Swale	Earthen Channel/Swale	X	X	~	~	11/01/10	11/1/2010	12/01/10	09/08/11
	A00604010007			X	X	~	~	11/01/10	11/1/2010	12/01/10	09/08/11
	A00604010008			X	X	~	~	11/01/10	11/1/2010	12/01/10	09/08/11
	A00604060002		Rip Rap	X	~	X	~	11/01/10	11/1/2010	12/01/10	—
	A00606010003	Check Dam	Rock Check Dam	~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	A00606010009			~	X	~	X	11/01/10	11/1/2010	12/01/10	—
	A00606010010			~	~	~	X	11/01/10	11/1/2010	12/01/10	—
	A00606010011			~	~	~	X	11/01/10	11/1/2010	12/01/10	—
	A00606010012			~	~	~	X	11/01/10	11/1/2010	12/01/10	—
	A00606010013			~	X	~	X	—	9/14/2011	—	—
	A00606010014			~	X	~	X	—	9/14/2011	—	—
	A00606010015			~	X	~	X	—	9/14/2011	—	—
	A00606010016			~	X	~	X	—	9/14/2011	—	—
	A00602010001			Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	11/01/10	11/1/2010
A-SMA-3.5	A00703060002	Berm	Straw Wattles	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00702010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—

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APPENDIX D

Table D-6, cont'd. Baseline Control Measures Installed at Ancho Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
A-SMA-4	A00803010007	Berm	Earthen Berm	~	~	X	~	04/30/11	1/12/2011	02/11/11	—
	A00803010009			~	X	~	X	—	5/20/2011	—	—
	A00803060002	Channel/Swale	Water Bar	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00804050005			~	~	X	~	04/30/11	1/12/2011	02/11/11	—
	A00804050006	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00806010003			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00802010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	A00801060008	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
A-SMA-6	A00903010021	Berm	Earthen Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00903060001			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00904020007	Channel/Swale	Concrete/Asphalt Channel/Swale	X	X	~	~	04/30/11	1/12/2011	02/11/11	—
	A00904060005			Rip Rap	X	X	~	~	04/30/11	1/12/2011	02/11/11
	A00906010008	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010009			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010010			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010011			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010012			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010013			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	A00906010014			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010015			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010016			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010017			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	A00906010018			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
A00906010019	~			X	~	X	04/30/11	1/12/2011	02/11/11	—	
A00906010020	~			X	~	X	04/30/11	1/12/2011	02/11/11	—	

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APPENDIX D

Table D-6, cont'd. Baseline Control Measures Installed at Ancho Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
A-SMA-6	A00902010006	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	A00901060022	Seed and Mulch	Erosion Control Blanket	X	~	~	~	04/30/11	1/12/2011	02/11/11	—

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

APPENDIX D

Table D-7. Baseline Control Measures Installed at Chaquehui Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CHQ-SMA-0.5	Q00103020002	Berm	Base Course Berm	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	Q00104050006	Channel/Swale	Water Bar	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00104050007			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00106010003	Check Dam	Rock Check Dam	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00106010004			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00106010005			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
Q00102010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—	
CHQ-SMA-1.01	Q00203020007	Berm	Base Course Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00203060003		Straw Wattles	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	Q00203060005		~	X	~	X	04/30/11	1/12/2011	02/11/11	—	
	Q00202010002	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	Q00201020001	Seed and Mulch	Seed and Gravel Mulch	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
CHQ-SMA-1.02	Q002A08030004	Cap	Concrete/Asphalt Cap	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	Q002A06010001	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	Q002A06010002			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	Q002A06010003			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	Q002A06010007			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q002A06010008			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q002A06010009			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
CHQ-SMA-1.03	Q002B08030003	Cap	Concrete/Asphalt Cap	X	X	~	~	04/30/11	1/12/2011	02/11/11	—
	Q002B04060006	Channel/Swale	Rip Rap	X	~	X	~	04/30/11	1/12/2011	02/11/11	—
	Q002B04060007			X	X	~	~	04/30/11	1/12/2011	02/11/11	—
	Q002B04060009			X	X	~	~	04/30/11	1/12/2011	02/11/11	—
	Q002B04060010			X	X	~	~	04/30/11	1/12/2011	02/11/11	—

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APPENDIX D

Table D-7, cont'd. Baseline Control Measures Installed at Chaquehui Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date		
CHQ-SMA-1.03	Q002B06010004	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—		
	Q002B06010005			~	X	~	X	04/30/11	1/12/2011	02/11/11	—		
	Q002B06010008			~	X	~	X	04/30/11	1/12/2011	02/11/11	—		
	Q002B06010011			~	X	~	X	04/30/11	1/12/2011	02/11/11	—		
	Q002B02010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—		
	Q002B02030002			X	X	X	~	04/30/11	1/12/2011	02/11/11	—		
CHQ-SMA-2	Q00303040015	Berm	Asphalt Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303020001		Base Course Berm	~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303020006		~	~	X	X	04/30/11	1/12/2011	02/11/11	—			
	Q00303060016		Straw Wattles	~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303060017			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303060018			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303060019			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303060020			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00303060021			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00304060002	Channel/Swale		Rip Rap	X	~	X	~	04/30/11	1/12/2011	02/11/11	—	
	Q00304060007		X		~	X	~	04/30/11	1/12/2011	02/11/11	—		
	Q00306010003	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010008			~	X	~	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010009			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010010			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010011			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010012			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010013			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00306010014			~	~	X	X	04/30/11	1/12/2011	02/11/11	—		
	Q00302020005			Permanent Vegetation	Permanent Vegetation Forested/Needle Cast	X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	Q00302010004					X	~	~	~	04/30/11	1/12/2011	02/11/11	—
	Q00301030022	Seed and Mulch	Hydromulch	X	~	~	~	04/30/11	1/12/2011	02/11/11	—		

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

Table D-7, cont'd. Baseline Control Measures Installed at Chaquehui Watershed SMAs

Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Target Completion Date	Actual Completion Date	Certification Date	Retired Date
CHQ-SMA-3.05	Q00403010008	Berm	Earthen Berm	~	X	~	X	—	5/20/2011	—	—
	Q00403060002		Straw Wattles	~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00403060003			~	~	X	X	04/30/11	1/12/2011	02/11/11	—
	Q00403060004			~	X	~	X	04/30/11	1/12/2011	02/11/11	05/20/11
	Q00403060005		~	X	~	X	04/30/11	1/12/2011	02/11/11	05/20/11	
	Q00406010006	Check Dam	Rock Check Dam	~	X	~	X	04/30/11	1/12/2011	02/11/11	—
	Q00406010007			~	X	~	X	04/30/11	1/12/2011	02/11/11	—
Q00402010001	Permanent Vegetation	Permanent Vegetation Grasses and Shrubs	X	~	~	~	04/30/11	1/12/2011	02/11/11	—	

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

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APPENDIX E

Corrective Actions

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Table E-1. Enhanced Control Measures Installed during 2011

Permitted Feature	Site Monitoring Area	BMP ID	Control Measure Type	Control Measure Description	EC	ROFF	RON	SC	Install Date
E002	2M-SMA-1.42	E00201010013	Seed and Mulch	Seed and Wood Mulch	X	~	~	~	30-Nov-11
		E00203010011	Berm	Earthen Berm	~	X	~	X	30-Nov-11
		E00203010012	Berm	Earthen Berm	~	~	X	X	30-Nov-11
J031	STRM-SMA-5.05	J03103010009	Berm	Earthen Berm	~	~	X	X	21-Oct-11
		J03103010010	Berm	Earthen Berm	~	X	~	X	21-Oct-11

BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

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BMP = best management practice; EC = Erosion Control; ROFF = Runoff Control; RON = Run-on Control; SC = Sediment Control; Cert = Certification

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APPENDIX F

Inspections

LA-UR-12-10341

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Table F-1. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
20-Jul-11	RG253	0.59	J002	PJ-SMA-2	26-Jul-11	Yes
			V001	CDV-SMA-1.2	26-Jul-11	Yes
			V002	CDV-SMA-1.3	26-Jul-11	Yes
			V003	CDV-SMA-1.4	26-Jul-11	Yes
			V004	CDV-SMA-1.45	26-Jul-11	Yes
			V005	CDV-SMA-1.7	22-Jul-11	Yes
			W001	W-SMA-1	25-Jul-11	Yes
			W002	W-SMA-1.5	25-Jul-11	Yes
24-Jul-11	RG265	0.36	A003	A-SMA-2.5	01-Aug-11	Yes
			A004	A-SMA-2.7	01-Aug-11	Yes
			A005	A-SMA-2.8	01-Aug-11	Yes
			A006	A-SMA-3	01-Aug-11	Yes
25-Jul-11	RG262.4	0.34	H002	3M-SMA-0.4	27-Jul-11	Yes
			H003	3M-SMA-0.5	27-Jul-11	Yes
			I001	PT-SMA-0.5	02-Aug-11	Yes
			I002	PT-SMA-1	02-Aug-11	Yes
			I003	PT-SMA-1.7	01-Aug-11	Yes
			I004	PT-SMA-2	02-Aug-11	Yes
			I004A	PT-SMA-2.01	02-Aug-11	Yes
			V014	CDV-SMA-8	04-Aug-11	Yes
			V015	CDV-SMA-8.5	01-Aug-11	Yes
			V016	CDV-SMA-9.05	01-Aug-11	Yes
			W019	W-SMA-11.7	28-Jul-11	Yes
			W020	W-SMA-12.05	28-Jul-11	Yes
			W021	W-SMA-14.1	01-Aug-11	Yes
W022	W-SMA-15.1	28-Jul-11	Yes			
27-Jul-11	RG253	0.28	J002	PJ-SMA-2	04-Aug-11	Yes
			V001	CDV-SMA-1.2	01-Aug-11	Yes
			V002	CDV-SMA-1.3	01-Aug-11	Yes
			V003	CDV-SMA-1.4	01-Aug-11	Yes
			V004	CDV-SMA-1.45	01-Aug-11	Yes
			V005	CDV-SMA-1.7	05-Aug-11	Yes
			W001	W-SMA-1	04-Aug-11	Yes
			W002	W-SMA-1.5	04-Aug-11	Yes
W003	W-SMA-2.05	01-Aug-11	Yes			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
28-Jul-11	RG203	0.3	M016	M-SMA-12.5	05-Aug-11	Yes
			M017	M-SMA-12.6	05-Aug-11	Yes
			M018	M-SMA-12.7	05-Aug-11	Yes
			M019	M-SMA-12.8	05-Aug-11	Yes
			M020	M-SMA-12.9	05-Aug-11	Yes
			M021	M-SMA-12.92	05-Aug-11	Yes
			M022	M-SMA-13	05-Aug-11	Yes
			S007	S-SMA-3.7	01-Aug-11	Yes
			S008	S-SMA-3.71	01-Aug-11	Yes
			S009	S-SMA-3.72	01-Aug-11	Yes
			S010	S-SMA-3.95	01-Aug-11	Yes
S012	S-SMA-4.5	01-Aug-11	Yes			
28-Jul-11	RG245.5	0.44	C002	CDB-SMA-0.25	02-Aug-11	Yes
			C003	CDB-SMA-0.55	02-Aug-11	Yes
			C004	CDB-SMA-1	02-Aug-11	Yes
			C005	CDB-SMA-1.15	02-Aug-11	Yes
			C006	CDB-SMA-1.35	02-Aug-11	Yes
			C007	CDB-SMA-1.54	02-Aug-11	Yes
			C008	CDB-SMA-1.55	02-Aug-11	Yes
			C009	CDB-SMA-1.65	02-Aug-11	Yes
			H004	3M-SMA-0.6	03-Aug-11	Yes
			H005	3M-SMA-2.6	03-Aug-11	Yes
			H006	3M-SMA-4	03-Aug-11	Yes
			J015	PJ-SMA-13	03-Aug-11	Yes
			J016	PJ-SMA-13.7	03-Aug-11	Yes
			J017	PJ-SMA-14	03-Aug-11	Yes
			J018	PJ-SMA-14.2	03-Aug-11	Yes
			J019	PJ-SMA-14.3	03-Aug-11	Yes
J020	PJ-SMA-14.4	03-Aug-11	Yes			
J021	PJ-SMA-14.6	03-Aug-11	Yes			
J022	PJ-SMA-14.8	03-Aug-11	Yes			
28-Jul-11	RG-TA-53	0.46	B001	B-SMA-0.5	02-Aug-11	Yes
			D008	DP-SMA-4	01-Aug-11	Yes
			L029	LA-SMA-9	01-Aug-11	Yes
			L030	LA-SMA-10.11	01-Aug-11	Yes
			L030A	LA-SMA-10.12	01-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
28-Jul-11	RG-TA-53	0.46	P004	P-SMA-0.3	02-Aug-11	Yes
			S011	S-SMA-4.1	01-Aug-11	Yes
			S013	S-SMA-5	01-Aug-11	Yes
			S014	S-SMA-5.2	01-Aug-11	Yes
			S015	S-SMA-5.5	01-Aug-11	Yes
			S016	S-SMA-6	01-Aug-11	Yes
29-Jul-11	RG203	0.28	M016	M-SMA-12.5	n/a	Within 15 days of previous event.
			M017	M-SMA-12.6	n/a	Within 15 days of previous event.
			M018	M-SMA-12.7	n/a	Within 15 days of previous event.
			M019	M-SMA-12.8	n/a	Within 15 days of previous event.
			M020	M-SMA-12.9	n/a	Within 15 days of previous event.
			M021	M-SMA-12.92	n/a	Within 15 days of previous event.
			M022	M-SMA-13	n/a	Within 15 days of previous event.
			S007	S-SMA-3.7	n/a	Within 15 days of previous event.
			S008	S-SMA-3.71	n/a	Within 15 days of previous event.
			S009	S-SMA-3.72	n/a	Within 15 days of previous event.
			S010	S-SMA-3.95	n/a	Within 15 days of previous event.
			S012	S-SMA-4.5	n/a	Within 15 days of previous event.
29-Jul-11	RG245.5	0.3	C002	CDB-SMA-0.25	n/a	Within 15 days of previous event.
			C003	CDB-SMA-0.55	n/a	Within 15 days of previous event.
			C004	CDB-SMA-1	n/a	Within 15 days of previous event.
			C005	CDB-SMA-1.15	n/a	Within 15 days of previous event.
			C006	CDB-SMA-1.35	n/a	Within 15 days of previous event.
			C007	CDB-SMA-1.54	n/a	Within 15 days of previous event.
			C008	CDB-SMA-1.55	n/a	Within 15 days of previous event.
			C009	CDB-SMA-1.65	n/a	Within 15 days of previous event.
			H004	3M-SMA-0.6	n/a	Within 15 days of previous event.
			H005	3M-SMA-2.6	n/a	Within 15 days of previous event.
			H006	3M-SMA-4	n/a	Within 15 days of previous event.
			J015	PJ-SMA-13	n/a	Within 15 days of previous event.
			J016	PJ-SMA-13.7	n/a	Within 15 days of previous event.
			J017	PJ-SMA-14	n/a	Within 15 days of previous event.
			J018	PJ-SMA-14.2	n/a	Within 15 days of previous event.
			J019	PJ-SMA-14.3	n/a	Within 15 days of previous event.
			J020	PJ-SMA-14.4	n/a	Within 15 days of previous event.
			J021	PJ-SMA-14.6	n/a	Within 15 days of previous event.

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
29-Jul-11	RG245.5	0.3	J022	PJ-SMA-14.8	n/a	Within 15 days of previous event.
29-Jul-11	RG265	0.63	A003	A-SMA-2.5	n/a	Within 15 days of previous event.
			A004	A-SMA-2.7	n/a	Within 15 days of previous event.
			A005	A-SMA-2.8	n/a	Within 15 days of previous event.
			A006	A-SMA-3	n/a	Within 15 days of previous event.
29-Jul-11	RG267.4	0.43	A001	A-SMA-1.1	03-Aug-11	Yes
			A002	A-SMA-2	03-Aug-11	Yes
			F001	F-SMA-2	03-Aug-11	Yes
			I005	PT-SMA-3	05-Aug-11	Yes
			I007	PT-SMA-4.2	03-Aug-11	Yes
29-Jul-11	RG340	0.39	A007	A-SMA-3.5	03-Aug-11	Yes
			A008	A-SMA-4	09-Aug-11	Yes
			A009	A-SMA-6	09-Aug-11	Yes
			Q001	CHQ-SMA-0.5	02-Aug-11	Yes
			Q002	CHQ-SMA-1.01	09-Aug-11	Yes
			Q002A	CHQ-SMA-1.02	09-Aug-11	Yes
			Q002B	CHQ-SMA-1.03	09-Aug-11	Yes
			Q003	CHQ-SMA-2	09-Aug-11	Yes
			Q004	CHQ-SMA-3.05	09-Aug-11	Yes
			Q005	CHQ-SMA-4	09-Aug-11	Yes
			Q006	CHQ-SMA-4.1	09-Aug-11	Yes
			Q007	CHQ-SMA-4.5	02-Aug-11	Yes
			Q008	CHQ-SMA-5.05	03-Aug-11	Yes
			Q009	CHQ-SMA-6	09-Aug-11	Yes
Q010	CHQ-SMA-7.1	09-Aug-11	Yes			
29-Jul-11	RG-TA-54	1.00	C010	CDB-SMA-4	08-Aug-11	Yes
			J023	PJ-SMA-16	08-Aug-11	Yes
			J024	PJ-SMA-17	08-Aug-11	Yes
			J025	PJ-SMA-19	11-Aug-11	Yes
			J026	PJ-SMA-18	11-Aug-11	Yes
			J027	PJ-SMA-20	05-Aug-11	Yes
30-Jul-11	RG245.5	0.44	C002	CDB-SMA-0.25	n/a	Within 15 days of previous event.
			C003	CDB-SMA-0.55	n/a	Within 15 days of previous event.
			C004	CDB-SMA-1	n/a	Within 15 days of previous event.
			C005	CDB-SMA-1.15	n/a	Within 15 days of previous event.
			C006	CDB-SMA-1.35	n/a	Within 15 days of previous event.

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
30-Jul-11	RG245.5	0.44	C007	CDB-SMA-1.54	n/a	Within 15 days of previous event.
			C008	CDB-SMA-1.55	n/a	Within 15 days of previous event.
			C009	CDB-SMA-1.65	n/a	Within 15 days of previous event.
			H004	3M-SMA-0.6	n/a	Within 15 days of previous event.
			H005	3M-SMA-2.6	n/a	Within 15 days of previous event.
			H006	3M-SMA-4	n/a	Within 15 days of previous event.
			J015	PJ-SMA-13	n/a	Within 15 days of previous event.
			J016	PJ-SMA-13.7	n/a	Within 15 days of previous event.
			J017	PJ-SMA-14	n/a	Within 15 days of previous event.
			J018	PJ-SMA-14.2	n/a	Within 15 days of previous event.
			J019	PJ-SMA-14.3	n/a	Within 15 days of previous event.
			J020	PJ-SMA-14.4	n/a	Within 15 days of previous event.
			J021	PJ-SMA-14.6	n/a	Within 15 days of previous event.
J022	PJ-SMA-14.8	n/a	Within 15 days of previous event.			
30-Jul-11	RG253	0.36	J002	PJ-SMA-2	n/a	Within 15 days of previous event.
			V001	CDV-SMA-1.2	n/a	Within 15 days of previous event.
			V002	CDV-SMA-1.3	n/a	Within 15 days of previous event.
			V003	CDV-SMA-1.4	n/a	Within 15 days of previous event.
			V004	CDV-SMA-1.45	n/a	Within 15 days of previous event.
			V005	CDV-SMA-1.7	n/a	Within 15 days of previous event.
			W001	W-SMA-1	n/a	Within 15 days of previous event.
			W002	W-SMA-1.5	n/a	Within 15 days of previous event.
			W003	W-SMA-2.05	n/a	Within 15 days of previous event.
30-Jul-11	RG262.4	0.38	H002	3M-SMA-0.4	05-Aug-11	Yes
			H003	3M-SMA-0.5	05-Aug-11	Yes
			I001	PT-SMA-0.5	n/a	Within 15 days of previous event.
			I002	PT-SMA-1	n/a	Within 15 days of previous event.
			I003	PT-SMA-1.7	n/a	Within 15 days of previous event.
			I004	PT-SMA-2	n/a	Within 15 days of previous event.
			I004A	PT-SMA-2.01	n/a	Within 15 days of previous event.
			V014	CDV-SMA-8	n/a	Within 15 days of previous event.
			V015	CDV-SMA-8.5	n/a	Within 15 days of previous event.
			V016	CDV-SMA-9.05	n/a	Within 15 days of previous event.
			W019	W-SMA-11.7	02-Aug-11	Yes
			W020	W-SMA-12.05	02-Aug-11	Yes
W021	W-SMA-14.1	n/a	Within 15 days of previous event.			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
30-Jul-11	RG262.4	0.38	W022	W-SMA-15.1	02-Aug-11	Yes
30-Jul-11	RG265	0.43	A003	A-SMA-2.5	n/a	Within 15 days of previous event.
			A004	A-SMA-2.7	n/a	Within 15 days of previous event.
			A005	A-SMA-2.8	n/a	Within 15 days of previous event.
			A006	A-SMA-3	n/a	Within 15 days of previous event.
30-Jul-11	RG267.4	0.43	A001	A-SMA-1.1	n/a	Within 15 days of previous event.
			A002	A-SMA-2	n/a	Within 15 days of previous event.
			F001	F-SMA-2	n/a	Within 15 days of previous event.
			I005	PT-SMA-3	n/a	Within 15 days of previous event.
			I007	PT-SMA-4.2	n/a	Within 15 days of previous event.
30-Jul-11	RG-TA-53	0.38	B001	B-SMA-0.5	n/a	Within 15 days of previous event.
			D008	DP-SMA-4	n/a	Within 15 days of previous event.
			L029	LA-SMA-9	n/a	Within 15 days of previous event.
			L030	LA-SMA-10.11	n/a	Within 15 days of previous event.
			L030A	LA-SMA-10.12	n/a	Within 15 days of previous event.
			P004	P-SMA-0.3	n/a	Within 15 days of previous event.
			S011	S-SMA-4.1	n/a	Within 15 days of previous event.
			S013	S-SMA-5	n/a	Within 15 days of previous event.
			S014	S-SMA-5.2	n/a	Within 15 days of previous event.
			S015	S-SMA-5.5	n/a	Within 15 days of previous event.
S016	S-SMA-6	n/a	Within 15 days of previous event.			
30-Jul-11	RG-TA-54	0.76	C010	CDB-SMA-4	n/a	Within 15 days of previous event.
			J023	PJ-SMA-16	n/a	Within 15 days of previous event.
			J024	PJ-SMA-17	n/a	Within 15 days of previous event.
			J025	PJ-SMA-19	n/a	Within 15 days of previous event.
			J026	PJ-SMA-18	n/a	Within 15 days of previous event.
			J027	PJ-SMA-20	n/a	Within 15 days of previous event.
01-Aug-11	RG038	0.33	D001	DP-SMA-0.3	03-Aug-11	Yes
			D002	DP-SMA-0.4	03-Aug-11	Yes
			D003	DP-SMA-0.6	03-Aug-11	Yes
			D004	DP-SMA-1	03-Aug-11	Yes
			D005	DP-SMA-2	03-Aug-11	Yes
			D006	DP-SMA-2.35	03-Aug-11	Yes
			D007	DP-SMA-3	03-Aug-11	Yes
			L015	LA-SMA-5.31	05-Aug-11	Yes
			L016	LA-SMA-5.33	04-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
01-Aug-11	RG038	0.33	L017	LA-SMA-5.361	03-Aug-11	Yes
			L017A	LA-SMA-5.362	03-Aug-11	Yes
			L018	LA-SMA-5.51	05-Aug-11	Yes
			L018A	LA-SMA-5.52	05-Aug-11	Yes
			L018B	LA-SMA-5.53	05-Aug-11	Yes
			L018C	LA-SMA-5.54	05-Aug-11	Yes
			L019	LA-SMA-5.91	03-Aug-11	Yes
			L019A	LA-SMA-5.92	03-Aug-11	Yes
			L020	LA-SMA-6.25	05-Aug-11	Yes
			L021	LA-SMA-6.27	03-Aug-11	Yes
			L022	LA-SMA-6.3	05-Aug-11	Yes
			L022A	LA-SMA-6.31	05-Aug-11	Yes
			L023	LA-SMA-6.32	03-Aug-11	Yes
			L024	LA-SMA-6.34	05-Aug-11	Yes
			L025	LA-SMA-6.36	03-Aug-11	Yes
			L026	LA-SMA-6.38	05-Aug-11	Yes
			L027	LA-SMA-6.395	03-Aug-11	Yes
			L028	LA-SMA-6.5	03-Aug-11	Yes
			P005	P-SMA-1	03-Aug-11	Yes
			P006	P-SMA-2	04-Aug-11	Yes
			P007	P-SMA-2.15	04-Aug-11	Yes
P008	P-SMA-2.2	04-Aug-11	Yes			
R003	R-SMA-1.95	03-Aug-11	Yes			
R005	R-SMA-2.3	04-Aug-11	Yes			
R006	R-SMA-2.5	03-Aug-11	Yes			
01-Aug-11	RG-TA-53	0.35	B001	B-SMA-0.5	n/a	Within 15 days of previous event.
			D008	DP-SMA-4	03-Aug-11	Yes
			L029	LA-SMA-9	04-Aug-11	Yes
			L030	LA-SMA-10.11	08-Aug-11	Yes
			L030A	LA-SMA-10.12	08-Aug-11	Yes
			P004	P-SMA-0.3	n/a	Within 15 days of previous event.
			S011	S-SMA-4.1	08-Aug-11	Yes
			S013	S-SMA-5	08-Aug-11	Yes
			S014	S-SMA-5.2	08-Aug-11	Yes
			S015	S-SMA-5.5	08-Aug-11	Yes
			S016	S-SMA-6	08-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
02-Aug-11	RG253	1.34	J002	PJ-SMA-2	n/a	Within 15 days of previous event.
			V001	CDV-SMA-1.2	05-Aug-11	Yes
			V002	CDV-SMA-1.3	05-Aug-11	Yes
			V003	CDV-SMA-1.4	08-Aug-11	Yes
			V004	CDV-SMA-1.45	08-Aug-11	Yes
			V005	CDV-SMA-1.7	n/a	Within 15 days of previous event.
			W001	W-SMA-1	n/a	Within 15 days of previous event.
			W002	W-SMA-1.5	n/a	Within 15 days of previous event.
03-Aug-11	RG240	0.28	J001	PJ-SMA-1.05	08-Aug-11	Yes
			J028	STRM-SMA-1.05	08-Aug-11	Yes
			J029	STRM-SMA-1.5	08-Aug-11	Yes
			J030	STRM-SMA-4.2	08-Aug-11	Yes
			J031	STRM-SMA-5.05	08-Aug-11	Yes
03-Aug-11	RG253	1.37	V001	CDV-SMA-1.2	n/a	Within 15 days of previous event.
			V002	CDV-SMA-1.3	n/a	Within 15 days of previous event.
			V003	CDV-SMA-1.4	n/a	Within 15 days of previous event.
			V004	CDV-SMA-1.45	n/a	Within 15 days of previous event.
			W003	W-SMA-2.05	n/a	Within 15 days of previous event.
			J002	PJ-SMA-2	08-Aug-11	Yes
			W001	W-SMA-1	09-Aug-11	Yes
			W002	W-SMA-1.5	09-Aug-11	Yes
04-Aug-11	RG253	0.25	J002	PJ-SMA-2	n/a	Within 15 days of previous event.
			V001	CDV-SMA-1.2	n/a	Within 15 days of previous event.
			V002	CDV-SMA-1.3	n/a	Within 15 days of previous event.
			V003	CDV-SMA-1.4	n/a	Within 15 days of previous event.
			V004	CDV-SMA-1.45	n/a	Within 15 days of previous event.
			V005	CDV-SMA-1.7	n/a	Within 15 days of previous event.
			W001	W-SMA-1	n/a	Within 15 days of previous event.
			W002	W-SMA-1.5	n/a	Within 15 days of previous event.
			W003	W-SMA-2.05	n/a	Within 15 days of previous event.
05-Aug-11	RG055.5	0.30	B002	B-SMA-1	09-Aug-11	Yes
			L006	LA-SMA-2.1	10-Aug-11	Yes
			L007	LA-SMA-2.3	10-Aug-11	Yes
			L008	LA-SMA-3.1	10-Aug-11	Yes
			L009	LA-SMA-3.9	10-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
05-Aug-11	RG055.5	0.30	L010	LA-SMA-4.1	10-Aug-11	Yes
			L011	LA-SMA-4.2	10-Aug-11	Yes
			L012	LA-SMA-5.01	10-Aug-11	Yes
			L012A	LA-SMA-5.02	10-Aug-11	Yes
			L013	LA-SMA-5.2	09-Aug-11	Yes
			L014	LA-SMA-5.35	10-Aug-11	Yes
			P001	ACID-SMA-1.05	10-Aug-11	Yes
			P002	ACID-SMA-2	10-Aug-11	Yes
			P002A	ACID-SMA-2.01	10-Aug-11	Yes
			P003	ACID-SMA-2.1	10-Aug-11	Yes
05-Aug-11	RG121.9	0.27	P009	P-SMA-3.05	10-Aug-11	Yes
			E001	2M-SMA-1	09-Aug-11	Yes
			E011	2M-SMA-1.9	11-Aug-11	Yes
			E012	2M-SMA-2	11-Aug-11	Yes
			E013	2M-SMA-2.2	11-Aug-11	Yes
			L001	LA-SMA-0.85	11-Aug-11	Yes
			L002	LA-SMA-0.9	09-Aug-11	Yes
			L003	LA-SMA-1	09-Aug-11	Yes
			L004	LA-SMA-1.1	11-Aug-11	Yes
			L005	LA-SMA-1.25	11-Aug-11	Yes
			M001	M-SMA-1	10-Aug-11	Yes
			M002	M-SMA-1.2	10-Aug-11	Yes
			M002A	M-SMA-1.21	10-Aug-11	Yes
			M002B	M-SMA-1.22	10-Aug-11	Yes
			S001	S-SMA-0.25	09-Aug-11	Yes
			S002	S-SMA-1.1	12-Aug-11	Yes
			S003	S-SMA-2	09-Aug-11	Yes
			S003A	S-SMA-2.01	11-Aug-11	Yes
			S004	S-SMA-2.8	12-Aug-11	Yes
			S005	S-SMA-3.51	11-Aug-11	Yes
S005A	S-SMA-3.52	11-Aug-11	Yes			
S005B	S-SMA-3.53	12-Aug-11	Yes			
S006	S-SMA-3.6	09-Aug-11	Yes			
05-Aug-11	RG245.5	0.25	C002	CDB-SMA-0.25	09-Aug-11	Yes
			C003	CDB-SMA-0.55	09-Aug-11	Yes
			C004	CDB-SMA-1	09-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
05-Aug-11	RG245.5	0.25	C005	CDB-SMA-1.15	09-Aug-11	Yes
			C006	CDB-SMA-1.35	09-Aug-11	Yes
			C007	CDB-SMA-1.54	09-Aug-11	Yes
			C008	CDB-SMA-1.55	09-Aug-11	Yes
			C009	CDB-SMA-1.65	09-Aug-11	Yes
			H004	3M-SMA-0.6	10-Aug-11	Yes
			H005	3M-SMA-2.6	09-Aug-11	Yes
			H006	3M-SMA-4	09-Aug-11	Yes
			J015	PJ-SMA-13	09-Aug-11	Yes
			J016	PJ-SMA-13.7	09-Aug-11	Yes
			J017	PJ-SMA-14	09-Aug-11	Yes
			J018	PJ-SMA-14.2	09-Aug-11	Yes
			J019	PJ-SMA-14.3	09-Aug-11	Yes
			J020	PJ-SMA-14.4	09-Aug-11	Yes
J021	PJ-SMA-14.6	09-Aug-11	Yes			
J022	PJ-SMA-14.8	09-Aug-11	Yes			
05-Aug-11	RG253	0.46	V001	CDV-SMA-1.2	11-Aug-11	Yes
			V002	CDV-SMA-1.3	11-Aug-11	Yes
			V005	CDV-SMA-1.7	12-Aug-11	Yes
			W003	W-SMA-2.05	10-Aug-11	Yes
			J002	PJ-SMA-2	n/a	Within 15 days of previous event.
			V003	CDV-SMA-1.4	n/a	Within 15 days of previous event.
			V004	CDV-SMA-1.45	n/a	Within 15 days of previous event.
			W001	W-SMA-1	n/a	Within 15 days of previous event.
W002	W-SMA-1.5	n/a	Within 15 days of previous event.			
05-Aug-11	RG257	0.31	J003	PJ-SMA-3.05	11-Aug-11	Yes
			J004	PJ-SMA-4.05	10-Aug-11	Yes
			V006	CDV-SMA-2	12-Aug-11	Yes
			V007	CDV-SMA-2.3	15-Aug-11	Yes
			V008	CDV-SMA-2.41	15-Aug-11	Yes
			V008A	CDV-SMA-2.42	15-Aug-11	Yes
			V009	CDV-SMA-2.5	15-Aug-11	Yes
			V009A	CDV-SMA-2.51	15-Aug-11	Yes
			V010	CDV-SMA-3	10-Aug-11	Yes
			V011	CDV-SMA-4	10-Aug-11	Yes
			V012	CDV-SMA-6.01	10-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
05-Aug-11	RG257	0.31	V012A	CDV-SMA-6.02	10-Aug-11	Yes
			V013	CDV-SMA-7	10-Aug-11	Yes
			W004	W-SMA-3.5	15-Aug-11	Yes
			W005	W-SMA-4.1	15-Aug-11	Yes
			W006	W-SMA-5	15-Aug-11	Yes
			W007	W-SMA-6	10-Aug-11	Yes
			W008	W-SMA-7	10-Aug-11	Yes
			W009	W-SMA-7.8	10-Aug-11	Yes
			W010	W-SMA-7.9	10-Aug-11	Yes
			W011	W-SMA-8	10-Aug-11	Yes
			W012	W-SMA-8.7	15-Aug-11	Yes
			W012A	W-SMA-8.71	11-Aug-11	Yes
			W013	W-SMA-9.05	10-Aug-11	Yes
			W014	W-SMA-9.5	15-Aug-11	Yes
			W015	W-SMA-9.7	15-Aug-11	Yes
			W016	W-SMA-9.8	15-Aug-11	Yes
			W017	W-SMA-9.9	15-Aug-11	Yes
			W018	W-SMA-10	15-Aug-11	Yes
13-Aug-11	RG-TA-54	0.27	C010	CDB-SMA-4	18-Aug-11	Yes
			J023	PJ-SMA-16	17-Aug-11	Yes
			J024	PJ-SMA-17	18-Aug-11	Yes
			J025	PJ-SMA-19	18-Aug-11	Yes
			J026	PJ-SMA-18	18-Aug-11	Yes
			J027	PJ-SMA-20	17-Aug-11	Yes
14-Aug-11	RG203	0.25	M016	M-SMA-12.5	16-Aug-11	Yes
			M017	M-SMA-12.6	16-Aug-11	Yes
			M018	M-SMA-12.7	16-Aug-11	Yes
			M019	M-SMA-12.8	16-Aug-11	Yes
			M020	M-SMA-12.9	16-Aug-11	Yes
			M021	M-SMA-12.92	16-Aug-11	Yes
			M022	M-SMA-13	16-Aug-11	Yes
			S007	S-SMA-3.7	17-Aug-11	Yes
			S008	S-SMA-3.71	17-Aug-11	Yes
			S009	S-SMA-3.72	17-Aug-11	Yes
			S010	S-SMA-3.95	17-Aug-11	Yes
			S012	S-SMA-4.5	17-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
15-Aug-11	RG267.4	0.25	A001	A-SMA-1.1	17-Aug-11	Yes
			A002	A-SMA-2	17-Aug-11	Yes
			F001	F-SMA-2	18-Aug-11	Yes
			I005	PT-SMA-3	18-Aug-11	Yes
			I007	PT-SMA-4.2	18-Aug-11	Yes
15-Aug-11	RG-TA-06	0.35	E002	2M-SMA-1.42	23-Aug-11	Yes
			E003	2M-SMA-1.43	25-Aug-11	Yes
			E004	2M-SMA-1.44	23-Aug-11	Yes
			E005	2M-SMA-1.45	23-Aug-11	Yes
			E006	2M-SMA-1.5	18-Aug-11	Yes
			E007	2M-SMA-1.65	23-Aug-11	Yes
			E008	2M-SMA-1.67	18-Aug-11	Yes
			E009	2M-SMA-1.7	17-Aug-11	Yes
			E010	2M-SMA-1.8	17-Aug-11	Yes
			E014	2M-SMA-3	19-Aug-11	Yes
			E015	2M-SMA-2.5	24-Aug-11	Yes
			H001	3M-SMA-0.2	25-Aug-11	Yes
			J005	PJ-SMA-5	18-Aug-11	Yes
			J006	PJ-SMA-5.1	24-Aug-11	Yes
			J007	PJ-SMA-6	25-Aug-11	Yes
			J008	PJ-SMA-7	18-Aug-11	Yes
			J009	PJ-SMA-8	18-Aug-11	Yes
			J010	PJ-SMA-9	19-Aug-11	Yes
			J012	PJ-SMA-10	18-Aug-11	Yes
			J013	PJ-SMA-11	25-Aug-11	Yes
J014	PJ-SMA-11.1	25-Aug-11	Yes			
M003	M-SMA-3	18-Aug-11	Yes			
M004	M-SMA-3.1	18-Aug-11	Yes			
18-Aug-11	RG245.5	0.44	C002	CDB-SMA-0.25	22-Aug-11	Yes
			C003	CDB-SMA-0.55	22-Aug-11	Yes
			C004	CDB-SMA-1	22-Aug-11	Yes
			C005	CDB-SMA-1.15	22-Aug-11	Yes
			C006	CDB-SMA-1.35	22-Aug-11	Yes
			C007	CDB-SMA-1.54	22-Aug-11	Yes
			C008	CDB-SMA-1.55	22-Aug-11	Yes
			C009	CDB-SMA-1.65	22-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
18-Aug-11	RG245.5	0.44	H004	3M-SMA-0.6	23-Aug-11	Yes
			H005	3M-SMA-2.6	22-Aug-11	Yes
			H006	3M-SMA-4	22-Aug-11	Yes
			J015	PJ-SMA-13	22-Aug-11	Yes
			J016	PJ-SMA-13.7	22-Aug-11	Yes
			J017	PJ-SMA-14	22-Aug-11	Yes
			J018	PJ-SMA-14.2	22-Aug-11	Yes
			J019	PJ-SMA-14.3	22-Aug-11	Yes
			J020	PJ-SMA-14.4	22-Aug-11	Yes
			J021	PJ-SMA-14.6	22-Aug-11	Yes
			J022	PJ-SMA-14.8	22-Aug-11	Yes
18-Aug-11	RG262.4	0.88	H002	3M-SMA-0.4	23-Aug-11	Yes
			H003	3M-SMA-0.5	23-Aug-11	Yes
			I001	PT-SMA-0.5	23-Aug-11	Yes
			I002	PT-SMA-1	23-Aug-11	Yes
			I003	PT-SMA-1.7	22-Aug-11	Yes
			I004	PT-SMA-2	23-Aug-11	Yes
			I004A	PT-SMA-2.01	23-Aug-11	Yes
			V014	CDV-SMA-8	24-Aug-11	Yes
			V015	CDV-SMA-8.5	25-Aug-11	Yes
			V016	CDV-SMA-9.05	22-Aug-11	Yes
			W019	W-SMA-11.7	31-Aug-11	Yes
			W020	W-SMA-12.05	24-Aug-11	Yes
			W021	W-SMA-14.1	22-Aug-11	Yes
W022	W-SMA-15.1	24-Aug-11	Yes			
18-Aug-11	RG265	0.39	A003	A-SMA-2.5	30-Aug-11	Yes
			A004	A-SMA-2.7	30-Aug-11	Yes
			A005	A-SMA-2.8	30-Aug-11	Yes
			A006	A-SMA-3	30-Aug-11	Yes
18-Aug-11	RG267.4	0.89	A001	A-SMA-1.1	30-Aug-11	Yes
			A002	A-SMA-2	30-Aug-11	Yes
			F001	F-SMA-2	26-Aug-11	Yes
			I005	PT-SMA-3	26-Aug-11	Yes
			I007	PT-SMA-4.2	24-Aug-11	Yes
18-Aug-11	RG-TA-54	0.78	C010	CDB-SMA-4	23-Aug-11	Yes
			J023	PJ-SMA-16	22-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
18-Aug-11	RG-TA-54	0.78	J024	PJ-SMA-17	23-Aug-11	Yes
			J025	PJ-SMA-19	23-Aug-11	Yes
			J026	PJ-SMA-18	23-Aug-11	Yes
			J027	PJ-SMA-20	22-Aug-11	Yes
19-Aug-11	RG038	0.45	D001	DP-SMA-0.3	24-Aug-11	Yes
			D002	DP-SMA-0.4	24-Aug-11	Yes
			D003	DP-SMA-0.6	24-Aug-11	Yes
			D004	DP-SMA-1	24-Aug-11	Yes
			D005	DP-SMA-2	24-Aug-11	Yes
			D006	DP-SMA-2.35	24-Aug-11	Yes
			D007	DP-SMA-3	24-Aug-11	Yes
			L015	LA-SMA-5.31	23-Aug-11	Yes
			L016	LA-SMA-5.33	25-Aug-11	Yes
			L017	LA-SMA-5.361	24-Aug-11	Yes
			L017A	LA-SMA-5.362	24-Aug-11	Yes
			L018	LA-SMA-5.51	23-Aug-11	Yes
			L018A	LA-SMA-5.52	23-Aug-11	Yes
			L018B	LA-SMA-5.53	23-Aug-11	Yes
			L018C	LA-SMA-5.54	23-Aug-11	Yes
			L019	LA-SMA-5.91	24-Aug-11	Yes
			L019A	LA-SMA-5.92	24-Aug-11	Yes
			L020	LA-SMA-6.25	26-Aug-11	Yes
			L021	LA-SMA-6.27	26-Aug-11	Yes
			L022	LA-SMA-6.3	26-Aug-11	Yes
			L022A	LA-SMA-6.31	26-Aug-11	Yes
			L023	LA-SMA-6.32	26-Aug-11	Yes
			L024	LA-SMA-6.34	26-Aug-11	Yes
			L025	LA-SMA-6.36	26-Aug-11	Yes
			L026	LA-SMA-6.38	26-Aug-11	Yes
			L027	LA-SMA-6.395	26-Aug-11	Yes
			L028	LA-SMA-6.5	24-Aug-11	Yes
			P005	P-SMA-1	26-Aug-11	Yes
P006	P-SMA-2	29-Aug-11	Yes			
P007	P-SMA-2.15	26-Aug-11	Yes			
P008	P-SMA-2.2	29-Aug-11	Yes			
R003	R-SMA-1.95	23-Aug-11	Yes			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
19-Aug-11	RG038	0.45	R005	R-SMA-2.3	23-Aug-11	Yes
			R006	R-SMA-2.5	23-Aug-11	Yes
19-Aug-11	RG055.5	0.51	B002	B-SMA-1	23-Aug-11	Yes
			L006	LA-SMA-2.1	24-Aug-11	Yes
			L007	LA-SMA-2.3	24-Aug-11	Yes
			L008	LA-SMA-3.1	24-Aug-11	Yes
			L009	LA-SMA-3.9	25-Aug-11	Yes
			L010	LA-SMA-4.1	25-Aug-11	Yes
			L011	LA-SMA-4.2	25-Aug-11	Yes
			L012	LA-SMA-5.01	25-Aug-11	Yes
			L012A	LA-SMA-5.02	25-Aug-11	Yes
			L013	LA-SMA-5.2	29-Aug-11	Yes
			L014	LA-SMA-5.35	25-Aug-11	Yes
			P001	ACID-SMA-1.05	23-Aug-11	Yes
			P002	ACID-SMA-2	24-Aug-11	Yes
			P002A	ACID-SMA-2.01	24-Aug-11	Yes
			P003	ACID-SMA-2.1	25-Aug-11	Yes
19-Aug-11	RG121.9	0.46	P009	P-SMA-3.05	25-Aug-11	Yes
			E001	2M-SMA-1	26-Aug-11	Yes
			E011	2M-SMA-1.9	25-Aug-11	Yes
			E012	2M-SMA-2	26-Aug-11	Yes
			E013	2M-SMA-2.2	26-Aug-11	Yes
			L001	LA-SMA-0.85	24-Aug-11	Yes
			L002	LA-SMA-0.9	26-Aug-11	Yes
			L003	LA-SMA-1	29-Aug-11	Yes
			L004	LA-SMA-1.1	25-Aug-11	Yes
			L005	LA-SMA-1.25	25-Aug-11	Yes
			M001	M-SMA-1	25-Aug-11	Yes
			M002	M-SMA-1.2	25-Aug-11	Yes
			M002A	M-SMA-1.21	25-Aug-11	Yes
			M002B	M-SMA-1.22	25-Aug-11	Yes
			S001	S-SMA-0.25	24-Aug-11	Yes
			S002	S-SMA-1.1	24-Aug-11	Yes
			S003	S-SMA-2	24-Aug-11	Yes
S003A	S-SMA-2.01	24-Aug-11	Yes			
S004	S-SMA-2.8	24-Aug-11	Yes			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
19-Aug-11	RG121.9	0.46	S005	S-SMA-3.51	24-Aug-11	Yes
			S005A	S-SMA-3.52	24-Aug-11	Yes
			S005B	S-SMA-3.53	24-Aug-11	Yes
			S006	S-SMA-3.6	24-Aug-11	Yes
19-Aug-11	RG200.5	0.4	C001	CDB-SMA-0.15	24-Aug-11	Yes
			M005	M-SMA-3.5	24-Aug-11	Yes
			M006	M-SMA-4	24-Aug-11	Yes
			M007	M-SMA-5	24-Aug-11	Yes
			M008	M-SMA-6	24-Aug-11	Yes
			M009	M-SMA-7	24-Aug-11	Yes
			M010	M-SMA-7.9	24-Aug-11	Yes
			M011	M-SMA-9.1	24-Aug-11	Yes
			M012	M-SMA-10	24-Aug-11	Yes
			M012A	M-SMA-10.01	24-Aug-11	Yes
			M013	M-SMA-10.3	24-Aug-11	Yes
			M014	M-SMA-11.1	24-Aug-11	Yes
			M015	M-SMA-12	24-Aug-11	Yes
			T001	PRATT-SMA-1.05	24-Aug-11	Yes
			T002	T-SMA-1	24-Aug-11	Yes
			T003	T-SMA-2.5	25-Aug-11	Yes
			T004	T-SMA-2.85	25-Aug-11	Yes
			T005	T-SMA-3	25-Aug-11	Yes
			T006	T-SMA-4	25-Aug-11	Yes
			T007	T-SMA-5	25-Aug-11	Yes
T008	T-SMA-6.8	24-Aug-11	Yes			
T009	T-SMA-7	24-Aug-11	Yes			
T010	T-SMA-7.1	24-Aug-11	Yes			
19-Aug-11	RG253	0.34	J002	PJ-SMA-2	26-Aug-11	Yes
			V001	CDV-SMA-1.2	02-Sep-11	Yes
			V002	CDV-SMA-1.3	23-Aug-11	Yes
			V003	CDV-SMA-1.4	29-Aug-11	Yes
			V004	CDV-SMA-1.45	25-Aug-11	Yes
			V005	CDV-SMA-1.7	23-Aug-11	Yes
			W001	W-SMA-1	01-Sep-11	Yes
			W002	W-SMA-1.5	29-Aug-11	Yes
			W003	W-SMA-2.05	01-Sep-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
19-Aug-11	RG-TA-06	0.30	E002	2M-SMA-1.42	n/a	Within 15 days of previous event.
			E003	2M-SMA-1.43	n/a	Within 15 days of previous event.
			E004	2M-SMA-1.44	n/a	Within 15 days of previous event.
			E005	2M-SMA-1.45	n/a	Within 15 days of previous event.
			E006	2M-SMA-1.5	25-Aug-11	Yes
			E007	2M-SMA-1.65	n/a	Within 15 days of previous event.
			E008	2M-SMA-1.67	29-Aug-11	Yes
			E009	2M-SMA-1.7	24-Aug-11	Yes
			E010	2M-SMA-1.8	24-Aug-11	Yes
			E014	2M-SMA-3	24-Aug-11	Yes
			E015	2M-SMA-2.5	n/a	Within 15 days of previous event.
			H001	3M-SMA-0.2	n/a	Within 15 days of previous event.
			J005	PJ-SMA-5	24-Aug-11	Yes
			J006	PJ-SMA-5.1	n/a	Within 15 days of previous event.
			J007	PJ-SMA-6	n/a	Within 15 days of previous event.
			J008	PJ-SMA-7	24-Aug-11	Yes
			J009	PJ-SMA-8	24-Aug-11	Yes
			J010	PJ-SMA-9	24-Aug-11	Yes
			J012	PJ-SMA-10	24-Aug-11	Yes
			J013	PJ-SMA-11	n/a	Within 15 days of previous event.
J014	PJ-SMA-11.1	n/a	Within 15 days of previous event.			
M003	M-SMA-3	24-Aug-11	Yes			
M004	M-SMA-3.1	24-Aug-11	Yes			
21-Aug-11	RG038	0.39	D001	DP-SMA-0.3	n/a	Within 15 days of previous event.
			D002	DP-SMA-0.4	n/a	Within 15 days of previous event.
			D003	DP-SMA-0.6	n/a	Within 15 days of previous event.
			D004	DP-SMA-1	n/a	Within 15 days of previous event.
			D005	DP-SMA-2	n/a	Within 15 days of previous event.
			D006	DP-SMA-2.35	n/a	Within 15 days of previous event.
			D007	DP-SMA-3	n/a	Within 15 days of previous event.
			L015	LA-SMA-5.31	n/a	Within 15 days of previous event.
			L016	LA-SMA-5.33	n/a	Within 15 days of previous event.
			L017	LA-SMA-5.361	n/a	Within 15 days of previous event.
			L017A	LA-SMA-5.362	n/a	Within 15 days of previous event.
			L018	LA-SMA-5.51	n/a	Within 15 days of previous event.
			L018A	LA-SMA-5.52	n/a	Within 15 days of previous event.

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
21-Aug-11	RG038	0.39	L018B	LA-SMA-5.53	n/a	Within 15 days of previous event.
			L018C	LA-SMA-5.54	n/a	Within 15 days of previous event.
			L019	LA-SMA-5.91	n/a	Within 15 days of previous event.
			L019A	LA-SMA-5.92	n/a	Within 15 days of previous event.
			L020	LA-SMA-6.25	n/a	Within 15 days of previous event.
			L021	LA-SMA-6.27	n/a	Within 15 days of previous event.
			L022	LA-SMA-6.3	n/a	Within 15 days of previous event.
			L022A	LA-SMA-6.31	n/a	Within 15 days of previous event.
			L023	LA-SMA-6.32	n/a	Within 15 days of previous event.
			L024	LA-SMA-6.34	n/a	Within 15 days of previous event.
			L025	LA-SMA-6.36	n/a	Within 15 days of previous event.
			L026	LA-SMA-6.38	n/a	Within 15 days of previous event.
			L027	LA-SMA-6.395	n/a	Within 15 days of previous event.
			L028	LA-SMA-6.5	n/a	Within 15 days of previous event.
			P005	P-SMA-1	n/a	Within 15 days of previous event.
			P006	P-SMA-2	n/a	Within 15 days of previous event.
			P007	P-SMA-2.15	n/a	Within 15 days of previous event.
			P008	P-SMA-2.2	n/a	Within 15 days of previous event.
			R003	R-SMA-1.95	n/a	Within 15 days of previous event.
R005	R-SMA-2.3	n/a	Within 15 days of previous event.			
R006	R-SMA-2.5	n/a	Within 15 days of previous event.			
21-Aug-11	RG055.5	1.03	B002	B-SMA-1	n/a	Within 15 days of previous event.
			L006	LA-SMA-2.1	n/a	Within 15 days of previous event.
			L007	LA-SMA-2.3	n/a	Within 15 days of previous event.
			L008	LA-SMA-3.1	n/a	Within 15 days of previous event.
			L009	LA-SMA-3.9	n/a	Within 15 days of previous event.
			L010	LA-SMA-4.1	n/a	Within 15 days of previous event.
			L011	LA-SMA-4.2	n/a	Within 15 days of previous event.
			L012	LA-SMA-5.01	n/a	Within 15 days of previous event.
			L012A	LA-SMA-5.02	n/a	Within 15 days of previous event.
			L013	LA-SMA-5.2	n/a	Within 15 days of previous event.
			L014	LA-SMA-5.35	n/a	Within 15 days of previous event.
			P001	ACID-SMA-1.05	n/a	Within 15 days of previous event.
			P002	ACID-SMA-2	n/a	Within 15 days of previous event.
			P002A	ACID-SMA-2.01	n/a	Within 15 days of previous event.
P003	ACID-SMA-2.1	n/a	Within 15 days of previous event.			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
21-Aug-11	RG055.5	1.03	P009	P-SMA-3.05	n/a	Within 15 days of previous event.
21-Aug-11	RG121.9	0.74	E001	2M-SMA-1	n/a	Within 15 days of previous event.
			E011	2M-SMA-1.9	n/a	Within 15 days of previous event.
			E012	2M-SMA-2	n/a	Within 15 days of previous event.
			E013	2M-SMA-2.2	n/a	Within 15 days of previous event.
			L001	LA-SMA-0.85	n/a	Within 15 days of previous event.
			L002	LA-SMA-0.9	n/a	Within 15 days of previous event.
			L003	LA-SMA-1	n/a	Within 15 days of previous event.
			L004	LA-SMA-1.1	n/a	Within 15 days of previous event.
			L005	LA-SMA-1.25	n/a	Within 15 days of previous event.
			M001	M-SMA-1	n/a	Within 15 days of previous event.
			M002	M-SMA-1.2	n/a	Within 15 days of previous event.
			M002A	M-SMA-1.21	n/a	Within 15 days of previous event.
			M002B	M-SMA-1.22	n/a	Within 15 days of previous event.
			S001	S-SMA-0.25	n/a	Within 15 days of previous event.
			S002	S-SMA-1.1	n/a	Within 15 days of previous event.
			S003	S-SMA-2	n/a	Within 15 days of previous event.
			S003A	S-SMA-2.01	n/a	Within 15 days of previous event.
			S004	S-SMA-2.8	n/a	Within 15 days of previous event.
			S005	S-SMA-3.51	n/a	Within 15 days of previous event.
S005A	S-SMA-3.52	n/a	Within 15 days of previous event.			
S005B	S-SMA-3.53	n/a	Within 15 days of previous event.			
S006	S-SMA-3.6	n/a	Within 15 days of previous event.			
21-Aug-11	RG240	0.76	J001	PJ-SMA-1.05	29-Aug-11	Yes
			J028	STRM-SMA-1.05	25-Aug-11	Yes
			J029	STRM-SMA-1.5	25-Aug-11	Yes
			J030	STRM-SMA-4.2	26-Aug-11	Yes
			J031	STRM-SMA-5.05	29-Aug-11	Yes
21-Aug-11	RG253	6.81	J002	PJ-SMA-2	n/a	Within 15 days of previous event.
			V001	CDV-SMA-1.2	n/a	Within 15 days of previous event.
			V002	CDV-SMA-1.3	n/a	Within 15 days of previous event.
			V003	CDV-SMA-1.4	n/a	Within 15 days of previous event.
			V004	CDV-SMA-1.45	n/a	Within 15 days of previous event.
			V005	CDV-SMA-1.7	n/a	Within 15 days of previous event.
			W001	W-SMA-1	n/a	Within 15 days of previous event.
			W002	W-SMA-1.5	n/a	Within 15 days of previous event.

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
21-Aug-11	RG253	6.81	W003	W-SMA-2.05	n/a	Within 15 days of previous event.
21-Aug-11	RG257	1.55	J003	PJ-SMA-3.05	29-Aug-11	Yes
			J004	PJ-SMA-4.05	29-Aug-11	Yes
			V006	CDV-SMA-2	02-Sep-11	Yes
			V007	CDV-SMA-2.3	01-Sep-11	Yes
			V008	CDV-SMA-2.41	30-Aug-11	Yes
			V008A	CDV-SMA-2.42	01-Sep-11	Yes
			V009	CDV-SMA-2.5	02-Sep-11	Yes
			V009A	CDV-SMA-2.51	01-Sep-11	Yes
			V010	CDV-SMA-3	25-Aug-11	Yes
			V011	CDV-SMA-4	25-Aug-11	Yes
			V012	CDV-SMA-6.01	25-Aug-11	Yes
			V012A	CDV-SMA-6.02	25-Aug-11	Yes
			V013	CDV-SMA-7	25-Aug-11	Yes
			W004	W-SMA-3.5	30-Aug-11	Yes
			W005	W-SMA-4.1	23-Aug-11	Yes
			W006	W-SMA-5	01-Sep-11	Yes
			W007	W-SMA-6	01-Sep-11	Yes
			W008	W-SMA-7	30-Aug-11	Yes
			W009	W-SMA-7.8	31-Aug-11	Yes
			W010	W-SMA-7.9	31-Aug-11	Yes
			W011	W-SMA-8	01-Sep-11	Yes
W012	W-SMA-8.7	01-Sep-11	Yes			
W012A	W-SMA-8.71	23-Aug-11	Yes			
W013	W-SMA-9.05	31-Aug-11	Yes			
W014	W-SMA-9.5	30-Aug-11	Yes			
W015	W-SMA-9.7	30-Aug-11	Yes			
W016	W-SMA-9.8	30-Aug-11	Yes			
W017	W-SMA-9.9	30-Aug-11	Yes			
W018	W-SMA-10	01-Sep-11	Yes			
21-Aug-11	RG262.4	0.25	H002	3M-SMA-0.4	n/a	Within 15 days of previous event.
			H003	3M-SMA-0.5	n/a	Within 15 days of previous event.
			I001	PT-SMA-0.5	n/a	Within 15 days of previous event.
			I002	PT-SMA-1	n/a	Within 15 days of previous event.
			I003	PT-SMA-1.7	n/a	Within 15 days of previous event.
			I004	PT-SMA-2	n/a	Within 15 days of previous event.

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
21-Aug-11	RG262.4	0.25	I004A	PT-SMA-2.01	n/a	Within 15 days of previous event.
			V014	CDV-SMA-8	n/a	Within 15 days of previous event.
			V015	CDV-SMA-8.5	n/a	Within 15 days of previous event.
			V016	CDV-SMA-9.05	n/a	Within 15 days of previous event.
			W019	W-SMA-11.7	n/a	Within 15 days of previous event.
			W020	W-SMA-12.05	n/a	Within 15 days of previous event.
			W021	W-SMA-14.1	n/a	Within 15 days of previous event.
			W022	W-SMA-15.1	n/a	Within 15 days of previous event.
21-Aug-11	RG340	0.31	A007	A-SMA-3.5	25-Aug-11	Yes
			A008	A-SMA-4	25-Aug-11	Yes
			A009	A-SMA-6	25-Aug-11	Yes
			Q001	CHQ-SMA-0.5	25-Aug-11	Yes
			Q002	CHQ-SMA-1.01	02-Sep-11	Yes
			Q002A	CHQ-SMA-1.02	02-Sep-11	Yes
			Q002B	CHQ-SMA-1.03	02-Sep-11	Yes
			Q003	CHQ-SMA-2	25-Aug-11	Yes
			Q004	CHQ-SMA-3.05	25-Aug-11	Yes
			Q005	CHQ-SMA-4	25-Aug-11	Yes
			Q006	CHQ-SMA-4.1	25-Aug-11	Yes
			Q007	CHQ-SMA-4.5	02-Sep-11	Yes
			Q008	CHQ-SMA-5.05	25-Aug-11	Yes
Q009	CHQ-SMA-6	25-Aug-11	Yes			
			Q010	CHQ-SMA-7.1	25-Aug-11	Yes
21-Aug-11	RG-NCOM	0.52	R001	R-SMA-0.5	23-Aug-11	Yes
			R002	R-SMA-1	23-Aug-11	Yes
			R004	R-SMA-2.05	23-Aug-11	Yes
21-Aug-11	RG-TA-06	1.18	E002	2M-SMA-1.42	n/a	Within 15 days of previous event.
			E003	2M-SMA-1.43	n/a	Within 15 days of previous event.
			E004	2M-SMA-1.44	n/a	Within 15 days of previous event.
			E005	2M-SMA-1.45	n/a	Within 15 days of previous event.
			E006	2M-SMA-1.5	n/a	Within 15 days of previous event.
			E007	2M-SMA-1.65	n/a	Within 15 days of previous event.
			E008	2M-SMA-1.67	n/a	Within 15 days of previous event.
			E009	2M-SMA-1.7	n/a	Within 15 days of previous event.
			E010	2M-SMA-1.8	n/a	Within 15 days of previous event.
						E014

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
21-Aug-11	RG-TA-06	1.18	E015	2M-SMA-2.5	n/a	Within 15 days of previous event.
			H001	3M-SMA-0.2	n/a	Within 15 days of previous event.
			J005	PJ-SMA-5	n/a	Within 15 days of previous event.
			J006	PJ-SMA-5.1	n/a	Within 15 days of previous event.
			J007	PJ-SMA-6	n/a	Within 15 days of previous event.
			J008	PJ-SMA-7	n/a	Within 15 days of previous event.
			J009	PJ-SMA-8	n/a	Within 15 days of previous event.
			J010	PJ-SMA-9	n/a	Within 15 days of previous event.
			J012	PJ-SMA-10	n/a	Within 15 days of previous event.
			J013	PJ-SMA-11	n/a	Within 15 days of previous event.
			J014	PJ-SMA-11.1	n/a	Within 15 days of previous event.
			M003	M-SMA-3	n/a	Within 15 days of previous event.
M004	M-SMA-3.1	n/a	Within 15 days of previous event.			
22-Aug-11	RG253	0.45	J002	PJ-SMA-2	n/a	Within 15 days of previous event.
			V001	CDV-SMA-1.2	n/a	Within 15 days of previous event.
			V002	CDV-SMA-1.3	n/a	Within 15 days of previous event.
			V003	CDV-SMA-1.4	n/a	Within 15 days of previous event.
			V004	CDV-SMA-1.45	n/a	Within 15 days of previous event.
			V005	CDV-SMA-1.7	n/a	Within 15 days of previous event.
			W001	W-SMA-1	n/a	Within 15 days of previous event.
			W002	W-SMA-1.5	n/a	Within 15 days of previous event.
W003	W-SMA-2.05	n/a	Within 15 days of previous event.			
27-Aug-11	RG265	0.39	A003	A-SMA-2.5	n/a	Within 15 days of previous event.
			A004	A-SMA-2.7	n/a	Within 15 days of previous event.
			A005	A-SMA-2.8	n/a	Within 15 days of previous event.
			A006	A-SMA-3	n/a	Within 15 days of previous event.
27-Aug-11	RG-TA-06	0.33	E002	2M-SMA-1.42	30-Aug-11	Yes
			E003	2M-SMA-1.43	30-Aug-11	Yes
			E004	2M-SMA-1.44	30-Aug-11	Yes
			E005	2M-SMA-1.45	30-Aug-11	Yes
			E006	2M-SMA-1.5	30-Aug-11	Yes
			E007	2M-SMA-1.65	06-Sep-11	Yes
			E008	2M-SMA-1.67	n/a	Within 15 days of previous event.
			E009	2M-SMA-1.7	30-Aug-11	Yes
			E010	2M-SMA-1.8	30-Aug-11	Yes
			E014	2M-SMA-3	30-Aug-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
27-Aug-11	RG-TA-06	0.33	E015	2M-SMA-2.5	06-Sep-11	Yes
			H001	3M-SMA-0.2	01-Sep-11	Yes
			J005	PJ-SMA-5	30-Aug-11	Yes
			J006	PJ-SMA-5.1	02-Sep-11	Yes
			J007	PJ-SMA-6	06-Sep-11	Yes
			J008	PJ-SMA-7	30-Aug-11	Yes
			J009	PJ-SMA-8	30-Aug-11	Yes
			J010	PJ-SMA-9	30-Aug-11	Yes
			J012	PJ-SMA-10	30-Aug-11	Yes
			J013	PJ-SMA-11	06-Sep-11	Yes
			J014	PJ-SMA-11.1	06-Sep-11	Yes
			M003	M-SMA-3	30-Aug-11	Yes
M004	M-SMA-3.1	30-Aug-11	Yes			
27-Aug-11	RG-TA-54	0.55	C010	CDB-SMA-4	31-Aug-11	Yes
			J023	PJ-SMA-16	31-Aug-11	Yes
			J024	PJ-SMA-17	31-Aug-11	Yes
			J025	PJ-SMA-19	31-Aug-11	Yes
			J026	PJ-SMA-18	31-Aug-11	Yes
			J027	PJ-SMA-20	31-Aug-11	Yes
01-Sep-11	RG038	0.28	D001	DP-SMA-0.3	09-Sep-11	Yes
			D002	DP-SMA-0.4	09-Sep-11	Yes
			D003	DP-SMA-0.6	09-Sep-11	Yes
			D004	DP-SMA-1	09-Sep-11	Yes
			D005	DP-SMA-2	09-Sep-11	Yes
			D006	DP-SMA-2.35	09-Sep-11	Yes
			D007	DP-SMA-3	09-Sep-11	Yes
			L015	LA-SMA-5.31	07-Sep-11	Yes
			L016	LA-SMA-5.33	06-Sep-11	Yes
			L017	LA-SMA-5.361	06-Sep-11	Yes
			L017A	LA-SMA-5.362	06-Sep-11	Yes
			L018	LA-SMA-5.51	07-Sep-11	Yes
			L018A	LA-SMA-5.52	07-Sep-11	Yes
			L018B	LA-SMA-5.53	07-Sep-11	Yes
			L018C	LA-SMA-5.54	07-Sep-11	Yes
			L019	LA-SMA-5.91	09-Sep-11	Yes
L019A	LA-SMA-5.92	09-Sep-11	Yes			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
01-Sep-11	RG038	0.28	L020	LA-SMA-6.25	12-Sep-11	Yes
			L021	LA-SMA-6.27	12-Sep-11	Yes
			L022	LA-SMA-6.3	12-Sep-11	Yes
			L022A	LA-SMA-6.31	09-Sep-11	Yes
			L023	LA-SMA-6.32	09-Sep-11	Yes
			L024	LA-SMA-6.34	12-Sep-11	Yes
			L025	LA-SMA-6.36	12-Sep-11	Yes
			L026	LA-SMA-6.38	12-Sep-11	Yes
			L027	LA-SMA-6.395	12-Sep-11	Yes
			L028	LA-SMA-6.5	12-Sep-11	Yes
			P005	P-SMA-1	08-Sep-11	Yes
			P006	P-SMA-2	08-Sep-11	Yes
			P007	P-SMA-2.15	08-Sep-11	Yes
			P008	P-SMA-2.2	08-Sep-11	Yes
			R003	R-SMA-1.95	08-Sep-11	Yes
			R005	R-SMA-2.3	08-Sep-11	Yes
R006	R-SMA-2.5	08-Sep-11	Yes			
01-Sep-11	RG200.5	0.35	C001	CDB-SMA-0.15	07-Sep-11	Yes
			M005	M-SMA-3.5	07-Sep-11	Yes
			M006	M-SMA-4	07-Sep-11	Yes
			M007	M-SMA-5	07-Sep-11	Yes
			M008	M-SMA-6	07-Sep-11	Yes
			M009	M-SMA-7	07-Sep-11	Yes
			M010	M-SMA-7.9	07-Sep-11	Yes
			M011	M-SMA-9.1	07-Sep-11	Yes
			M012	M-SMA-10	07-Sep-11	Yes
			M012A	M-SMA-10.01	07-Sep-11	Yes
			M013	M-SMA-10.3	07-Sep-11	Yes
			M014	M-SMA-11.1	07-Sep-11	Yes
			M015	M-SMA-12	07-Sep-11	Yes
			T001	PRATT-SMA-1.05	07-Sep-11	Yes
			T002	T-SMA-1	07-Sep-11	Yes
			T003	T-SMA-2.5	07-Sep-11	Yes
T004	T-SMA-2.85	07-Sep-11	Yes			
T005	T-SMA-3	07-Sep-11	Yes			
T006	T-SMA-4	07-Sep-11	Yes			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
01-Sep-11	RG200.5	0.35	T007	T-SMA-5	07-Sep-11	Yes
			T008	T-SMA-6.8	07-Sep-11	Yes
			T009	T-SMA-7	07-Sep-11	Yes
			T010	T-SMA-7.1	07-Sep-11	Yes
01-Sep-11	RG245.5	0.46	C002	CDB-SMA-0.25	08-Sep-11	Yes
			C003	CDB-SMA-0.55	08-Sep-11	Yes
			C004	CDB-SMA-1	08-Sep-11	Yes
			C005	CDB-SMA-1.15	08-Sep-11	Yes
			C006	CDB-SMA-1.35	08-Sep-11	Yes
			C007	CDB-SMA-1.54	08-Sep-11	Yes
			C008	CDB-SMA-1.55	08-Sep-11	Yes
			C009	CDB-SMA-1.65	08-Sep-11	Yes
			H004	3M-SMA-0.6	06-Sep-11	Yes
			H005	3M-SMA-2.6	08-Sep-11	Yes
			H006	3M-SMA-4	08-Sep-11	Yes
			J015	PJ-SMA-13	08-Sep-11	Yes
			J016	PJ-SMA-13.7	08-Sep-11	Yes
			J017	PJ-SMA-14	08-Sep-11	Yes
			J018	PJ-SMA-14.2	08-Sep-11	Yes
			J019	PJ-SMA-14.3	08-Sep-11	Yes
			J020	PJ-SMA-14.4	08-Sep-11	Yes
			J021	PJ-SMA-14.6	08-Sep-11	Yes
J022	PJ-SMA-14.8	08-Sep-11	Yes			
01-Sep-11	RG257	0.36	J003	PJ-SMA-3.05	14-Sep-11	Yes
			J004	PJ-SMA-4.05	12-Sep-11	Yes
			V006	CDV-SMA-2	n/a	Within 15 days of previous event.
			V007	CDV-SMA-2.3	12-Sep-11	Yes
			V008	CDV-SMA-2.41	12-Sep-11	Yes
			V008A	CDV-SMA-2.42	12-Sep-11	Yes
			V009	CDV-SMA-2.5	n/a	Within 15 days of previous event.
			V009A	CDV-SMA-2.51	06-Sep-11	Yes
			V010	CDV-SMA-3	08-Sep-11	Yes
			V011	CDV-SMA-4	08-Sep-11	Yes
			V012	CDV-SMA-6.01	08-Sep-11	Yes
			V012A	CDV-SMA-6.02	08-Sep-11	Yes
			V013	CDV-SMA-7	09-Sep-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
01-Sep-11	RG257	0.36	W004	W-SMA-3.5	13-Sep-11	Yes
			W005	W-SMA-4.1	13-Sep-11	Yes
			W006	W-SMA-5	06-Sep-11	Yes
			W007	W-SMA-6	06-Sep-11	Yes
			W008	W-SMA-7	13-Sep-11	Yes
			W009	W-SMA-7.8	06-Sep-11	Yes
			W010	W-SMA-7.9	06-Sep-11	Yes
			W011	W-SMA-8	06-Sep-11	Yes
			W012	W-SMA-8.7	06-Sep-11	Yes
			W012A	W-SMA-8.71	06-Sep-11	Yes
			W013	W-SMA-9.05	06-Sep-11	Yes
			W014	W-SMA-9.5	08-Sep-11	Yes
			W015	W-SMA-9.7	08-Sep-11	Yes
			W016	W-SMA-9.8	08-Sep-11	Yes
			W017	W-SMA-9.9	08-Sep-11	Yes
W018	W-SMA-10	08-Sep-11	Yes			
01-Sep-11	RG262.4	0.69	H002	3M-SMA-0.4	08-Sep-11	Yes
			H003	3M-SMA-0.5	08-Sep-11	Yes
			I001	PT-SMA-0.5	08-Sep-11	Yes
			I002	PT-SMA-1	08-Sep-11	Yes
			I003	PT-SMA-1.7	08-Sep-11	Yes
			I004	PT-SMA-2	08-Sep-11	Yes
			I004A	PT-SMA-2.01	08-Sep-11	Yes
			V014	CDV-SMA-8	08-Sep-11	Yes
			V015	CDV-SMA-8.5	09-Sep-11	Yes
			V016	CDV-SMA-9.05	08-Sep-11	Yes
			W019	W-SMA-11.7	13-Sep-11	Yes
			W020	W-SMA-12.05	13-Sep-11	Yes
W021	W-SMA-14.1	08-Sep-11	Yes			
W022	W-SMA-15.1	07-Sep-11	Yes			
01-Sep-11	RG265	0.34	A003	A-SMA-2.5	13-Sep-11	Yes
			A004	A-SMA-2.7	13-Sep-11	Yes
			A005	A-SMA-2.8	13-Sep-11	Yes
			A006	A-SMA-3	13-Sep-11	Yes
01-Sep-11	RG267.4	0.80	A001	A-SMA-1.1	13-Sep-11	Yes
			A002	A-SMA-2	13-Sep-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
01-Sep-11	RG267.4	0.80	F001	F-SMA-2	07-Sep-11	Yes
			I005	PT-SMA-3	07-Sep-11	Yes
			I007	PT-SMA-4.2	07-Sep-11	Yes
01-Sep-11	RG-TA-53	0.39	B001	B-SMA-0.5	08-Sep-11	Yes
			D008	DP-SMA-4	13-Sep-11	Yes
			L029	LA-SMA-9	07-Sep-11	Yes
			L030	LA-SMA-10.11	12-Sep-11	Yes
			L030A	LA-SMA-10.12	09-Sep-11	Yes
			P004	P-SMA-0.3	08-Sep-11	Yes
			S011	S-SMA-4.1	09-Sep-11	Yes
			S013	S-SMA-5	08-Sep-11	Yes
			S014	S-SMA-5.2	09-Sep-11	Yes
			S015	S-SMA-5.5	08-Sep-11	Yes
			S016	S-SMA-6	09-Sep-11	Yes
07-Sep-11	RG038	0.29	D001	DP-SMA-0.3	n/a	Within 15 days of previous event.
			D002	DP-SMA-0.4	n/a	Within 15 days of previous event.
			D003	DP-SMA-0.6	n/a	Within 15 days of previous event.
			D004	DP-SMA-1	n/a	Within 15 days of previous event.
			D005	DP-SMA-2	n/a	Within 15 days of previous event.
			D006	DP-SMA-2.35	n/a	Within 15 days of previous event.
			D007	DP-SMA-3	n/a	Within 15 days of previous event.
			L015	LA-SMA-5.31	12-Sep-11	Yes
			L016	LA-SMA-5.33	12-Sep-11	Yes
			L017	LA-SMA-5.361	12-Sep-11	Yes
			L017A	LA-SMA-5.362	12-Sep-11	Yes
			L018	LA-SMA-5.51	12-Sep-11	Yes
			L018A	LA-SMA-5.52	12-Sep-11	Yes
			L018B	LA-SMA-5.53	12-Sep-11	Yes
			L018C	LA-SMA-5.54	12-Sep-11	Yes
			L019	LA-SMA-5.91	n/a	Within 15 days of previous event.
			L019A	LA-SMA-5.92	n/a	Within 15 days of previous event.
			L020	LA-SMA-6.25	n/a	Within 15 days of previous event.
			L021	LA-SMA-6.27	n/a	Within 15 days of previous event.
L022	LA-SMA-6.3	n/a	Within 15 days of previous event.			
L022A	LA-SMA-6.31	n/a	Within 15 days of previous event.			
L023	LA-SMA-6.32	n/a	Within 15 days of previous event.			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
07-Sep-11	RG038	0.29	L024	LA-SMA-6.34	n/a	Within 15 days of previous event.
			L025	LA-SMA-6.36	n/a	Within 15 days of previous event.
			L026	LA-SMA-6.38	n/a	Within 15 days of previous event.
			L027	LA-SMA-6.395	n/a	Within 15 days of previous event.
			L028	LA-SMA-6.5	n/a	Within 15 days of previous event.
			P005	P-SMA-1	n/a	Within 15 days of previous event.
			P006	P-SMA-2	n/a	Within 15 days of previous event.
			P007	P-SMA-2.15	n/a	Within 15 days of previous event.
			P008	P-SMA-2.2	n/a	Within 15 days of previous event.
			R003	R-SMA-1.95	n/a	Within 15 days of previous event.
			R005	R-SMA-2.3	n/a	Within 15 days of previous event.
R006	R-SMA-2.5	n/a	Within 15 days of previous event.			
07-Sep-11	RG055.5	0.35	B002	B-SMA-1	12-Sep-11	Yes
			L006	LA-SMA-2.1	13-Sep-11	Yes
			L007	LA-SMA-2.3	13-Sep-11	Yes
			L008	LA-SMA-3.1	13-Sep-11	Yes
			L009	LA-SMA-3.9	13-Sep-11	Yes
			L010	LA-SMA-4.1	13-Sep-11	Yes
			L011	LA-SMA-4.2	13-Sep-11	Yes
			L012	LA-SMA-5.01	13-Sep-11	Yes
			L012A	LA-SMA-5.02	13-Sep-11	Yes
			L013	LA-SMA-5.2	12-Sep-11	Yes
			L014	LA-SMA-5.35	12-Sep-11	Yes
			P001	ACID-SMA-1.05	12-Sep-11	Yes
			P002	ACID-SMA-2	14-Sep-11	Yes
			P002A	ACID-SMA-2.01	14-Sep-11	Yes
P003	ACID-SMA-2.1	14-Sep-11	Yes			
P009	P-SMA-3.05	13-Sep-11	Yes			
07-Sep-11	RG121.9	0.4	E001	2M-SMA-1	13-Sep-11	Yes
			E011	2M-SMA-1.9	13-Sep-11	Yes
			E012	2M-SMA-2	13-Sep-11	Yes
			E013	2M-SMA-2.2	13-Sep-11	Yes
			L001	LA-SMA-0.85	14-Sep-11	Yes
			L002	LA-SMA-0.9	12-Sep-11	Yes
			L003	LA-SMA-1	12-Sep-11	Yes
			L004	LA-SMA-1.1	14-Sep-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
07-Sep-11	RG121.9	0.40	L005	LA-SMA-1.25	14-Sep-11	Yes
			M001	M-SMA-1	13-Sep-11	Yes
			M002	M-SMA-1.2	13-Sep-11	Yes
			M002A	M-SMA-1.21	13-Sep-11	Yes
			M002B	M-SMA-1.22	13-Sep-11	Yes
			S001	S-SMA-0.25	14-Sep-11	Yes
			S002	S-SMA-1.1	13-Sep-11	Yes
			S003	S-SMA-2	14-Sep-11	Yes
			S003A	S-SMA-2.01	12-Sep-11	Yes
			S004	S-SMA-2.8	12-Sep-11	Yes
			S005	S-SMA-3.51	12-Sep-11	Yes
			S005A	S-SMA-3.52	12-Sep-11	Yes
			S005B	S-SMA-3.53	12-Sep-11	Yes
			S006	S-SMA-3.6	14-Sep-11	Yes
07-Sep-11	RG200.5	0.49	C001	CDB-SMA-0.15	n/a	Within 15 days of previous event.
			M005	M-SMA-3.5	14-Sep-11	Yes
			M006	M-SMA-4	14-Sep-11	Yes
			M007	M-SMA-5	14-Sep-11	Yes
			M008	M-SMA-6	14-Sep-11	Yes
			M009	M-SMA-7	14-Sep-11	Yes
			M010	M-SMA-7.9	14-Sep-11	Yes
			M011	M-SMA-9.1	14-Sep-11	Yes
			M012	M-SMA-10	14-Sep-11	Yes
			M012A	M-SMA-10.01	14-Sep-11	Yes
			M013	M-SMA-10.3	14-Sep-11	Yes
			M014	M-SMA-11.1	14-Sep-11	Yes
			M015	M-SMA-12	14-Sep-11	Yes
			T001	PRATT-SMA-1.05	n/a	Within 15 days of previous event.
			T002	T-SMA-1	n/a	Within 15 days of previous event.
			T003	T-SMA-2.5	14-Sep-11	Yes
			T004	T-SMA-2.85	14-Sep-11	Yes
			T005	T-SMA-3	n/a	Within 15 days of previous event.
			T006	T-SMA-4	n/a	Within 15 days of previous event.
			T007	T-SMA-5	n/a	Within 15 days of previous event.
T008	T-SMA-6.8	n/a	Within 15 days of previous event.			
T009	T-SMA-7	n/a	Within 15 days of previous event.			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
07-Sep-11	RG200.5	0.49	T010	T-SMA-7.1	n/a	Within 15 days of previous event.
07-Sep-11	RG245.5	0.69	C002	CDB-SMA-0.25	n/a	Within 15 days of previous event.
			C003	CDB-SMA-0.55	n/a	Within 15 days of previous event.
			C004	CDB-SMA-1	n/a	Within 15 days of previous event.
			C005	CDB-SMA-1.15	n/a	Within 15 days of previous event.
			C006	CDB-SMA-1.35	n/a	Within 15 days of previous event.
			C007	CDB-SMA-1.54	n/a	Within 15 days of previous event.
			C008	CDB-SMA-1.55	n/a	Within 15 days of previous event.
			C009	CDB-SMA-1.65	n/a	Within 15 days of previous event.
			H004	3M-SMA-0.6	14-Sep-11	Yes
			H005	3M-SMA-2.6	n/a	Within 15 days of previous event.
			H006	3M-SMA-4	n/a	Within 15 days of previous event.
			J015	PJ-SMA-13	n/a	Within 15 days of previous event.
			J016	PJ-SMA-13.7	n/a	Within 15 days of previous event.
			J017	PJ-SMA-14	n/a	Within 15 days of previous event.
			J018	PJ-SMA-14.2	n/a	Within 15 days of previous event.
J019	PJ-SMA-14.3	n/a	Within 15 days of previous event.			
J020	PJ-SMA-14.4	n/a	Within 15 days of previous event.			
J021	PJ-SMA-14.6	n/a	Within 15 days of previous event.			
J022	PJ-SMA-14.8	n/a	Within 15 days of previous event.			
07-Sep-11	RG-TA-06	0.46	E002	2M-SMA-1.42	15-Sep-11	Yes
			E003	2M-SMA-1.43	15-Sep-11	Yes
			E004	2M-SMA-1.44	15-Sep-11	Yes
			E005	2M-SMA-1.45	15-Sep-11	Yes
			E006	2M-SMA-1.5	12-Sep-11	Yes
			E007	2M-SMA-1.65	14-Sep-11	Yes
			E008	2M-SMA-1.67	12-Sep-11	Yes
			E009	2M-SMA-1.7	13-Sep-11	Yes
			E010	2M-SMA-1.8	13-Sep-11	Yes
			E014	2M-SMA-3	12-Sep-11	Yes
			E015	2M-SMA-2.5	15-Sep-11	Yes
			H001	3M-SMA-0.2	14-Sep-11	Yes
			J005	PJ-SMA-5	12-Sep-11	Yes
			J006	PJ-SMA-5.1	15-Sep-11	Yes
J007	PJ-SMA-6	14-Sep-11	Yes			
J008	PJ-SMA-7	12-Sep-11	Yes			

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
07-Sep-11	RG-TA-06	0.46	J009	PJ-SMA-8	12-Sep-11	Yes
			J010	PJ-SMA-9	12-Sep-11	Yes
			J012	PJ-SMA-10	12-Sep-11	Yes
			J013	PJ-SMA-11	14-Sep-11	Yes
			J014	PJ-SMA-11.1	14-Sep-11	Yes
			M003	M-SMA-3	14-Sep-11	Yes
			M004	M-SMA-3.1	14-Sep-11	Yes
07-Sep-11	RG-TA-53	0.31	B001	B-SMA-0.5	n/a	Within 15 days of previous event.
			D008	DP-SMA-4	n/a	Within 15 days of previous event.
			L029	LA-SMA-9	n/a	Within 15 days of previous event.
			L030	LA-SMA-10.11	n/a	Within 15 days of previous event.
			L030A	LA-SMA-10.12	n/a	Within 15 days of previous event.
			P004	P-SMA-0.3	n/a	Within 15 days of previous event.
			S011	S-SMA-4.1	n/a	Within 15 days of previous event.
			S013	S-SMA-5	n/a	Within 15 days of previous event.
			S014	S-SMA-5.2	n/a	Within 15 days of previous event.
			S015	S-SMA-5.5	n/a	Within 15 days of previous event.
			S016	S-SMA-6	n/a	Within 15 days of previous event.
07-Sep-11	RG-TA-54	0.83	C010	CDB-SMA-4	14-Sep-11	Yes
			J023	PJ-SMA-16	13-Sep-11	Yes
			J024	PJ-SMA-17	14-Sep-11	Yes
			J025	PJ-SMA-19	14-Sep-11	Yes
			J026	PJ-SMA-18	14-Sep-11	Yes
			J027	PJ-SMA-20	14-Sep-11	Yes
15-Sep-11	RG257	0.28	J003	PJ-SMA-3.05	23-Sep-11	Yes
			J004	PJ-SMA-4.05	22-Sep-11	Yes
			V006	CDV-SMA-2	23-Sep-11	Yes
			V007	CDV-SMA-2.3	26-Sep-11	Yes
			V008	CDV-SMA-2.41	27-Sep-11	Yes
			V008A	CDV-SMA-2.42	26-Sep-11	Yes
			V009	CDV-SMA-2.5	26-Sep-11	Yes
			V009A	CDV-SMA-2.51	26-Sep-11	Yes
			V010	CDV-SMA-3	21-Sep-11	Yes
			V011	CDV-SMA-4	21-Sep-11	Yes
			V012	CDV-SMA-6.01	21-Sep-11	Yes
			V012A	CDV-SMA-6.02	21-Sep-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
15-Sep-11	RG257	0.28	V013	CDV-SMA-7	23-Sep-11	Yes
			W004	W-SMA-3.5	27-Sep-11	Yes
			W005	W-SMA-4.1	22-Sep-11	Yes
			W006	W-SMA-5	27-Sep-11	Yes
			W007	W-SMA-6	29-Sep-11	Yes
			W008	W-SMA-7	27-Sep-11	Yes
			W009	W-SMA-7.8	29-Sep-11	Yes
			W010	W-SMA-7.9	21-Sep-11	Yes
			W011	W-SMA-8	21-Sep-11	Yes
			W012	W-SMA-8.7	27-Sep-11	Yes
			W012A	W-SMA-8.71	27-Sep-11	Yes
			W013	W-SMA-9.05	27-Sep-11	Yes
			W014	W-SMA-9.5	22-Sep-11	Yes
			W015	W-SMA-9.7	22-Sep-11	Yes
			W016	W-SMA-9.8	22-Sep-11	Yes
			15-Sep-11	RG262.4	0.25	H002
H003	3M-SMA-0.5	21-Sep-11				Yes
I001	PT-SMA-0.5	20-Sep-11				Yes
I002	PT-SMA-1	20-Sep-11				Yes
I003	PT-SMA-1.7	21-Sep-11				Yes
I004	PT-SMA-2	21-Sep-11				Yes
I004A	PT-SMA-2.01	21-Sep-11				Yes
V014	CDV-SMA-8	21-Sep-11				Yes
V015	CDV-SMA-8.5	26-Sep-11				Yes
V016	CDV-SMA-9.05	21-Sep-11				Yes
W019	W-SMA-11.7	29-Sep-11				Yes
W020	W-SMA-12.05	29-Sep-11				Yes
W021	W-SMA-14.1	29-Sep-11				Yes
W022	W-SMA-15.1	21-Sep-11				Yes
15-Sep-11	RG340	0.27	A007	A-SMA-3.5	23-Sep-11	Yes
			A008	A-SMA-4	23-Sep-11	Yes
			A009	A-SMA-6	23-Sep-11	Yes
			Q001	CHQ-SMA-0.5	21-Sep-11	Yes
			Q002	CHQ-SMA-1.01	28-Sep-11	Yes

Table F-1, cont'd. Summary of Post-Storm Inspections

Storm Date	Rain Gage	30-Minute Maximum Intensity (inch / 30 min)	Permitted Feature	Site Monitoring Area	Inspection Date	Inspected within 15 days?
15-Sep-11	RG340	0.27	Q002A	CHQ-SMA-1.02	28-Sep-11	Yes
			Q002B	CHQ-SMA-1.03	28-Sep-11	Yes
			Q003	CHQ-SMA-2	29-Sep-11	Yes
			Q004	CHQ-SMA-3.05	21-Sep-11	Yes
			Q005	CHQ-SMA-4	21-Sep-11	Yes
			Q006	CHQ-SMA-4.1	21-Sep-11	Yes
			Q007	CHQ-SMA-4.5	23-Sep-11	Yes
			Q008	CHQ-SMA-5.05	28-Sep-11	Yes
			Q009	CHQ-SMA-6	28-Sep-11	Yes
			Q010	CHQ-SMA-7.1	28-Sep-11	Yes
16-Sep-11	RG-TA-54	0.25	C010	CDB-SMA-4	27-Sep-11	Yes
			J023	PJ-SMA-16	21-Sep-11	Yes
			J024	PJ-SMA-17	27-Sep-11	Yes
			J025	PJ-SMA-19	27-Sep-11	Yes
			J026	PJ-SMA-18	27-Sep-11	Yes
			J027	PJ-SMA-20	27-Sep-11	Yes

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Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
R001	R-SMA-0.5	31-Aug-11	Recommend replacement of log berms -0004 & -0005 with wattles. Heavy equipment has been driven across the site to access the main drainage to remove / reduce large woody debris from the channel.	Installed straw wattle immediately above log berm -0004. Log berm was retired. Installed straw wattle immediately above log berm -0005. Log berm was retired. Installed 3 straw wattles across new road. Installed seed and wood mulch in bare areas between wattle installations.	15-Sep-11 15-Sep-11 26-Sep-11
R002	R-SMA-1	31-Aug-11	New erosion observed: water from roundabout flows past drop inlet and off road and into R-SMA-1 drainage, causing considerable erosion to fill slope. Backup control measures are in place. May need to install gravel bags above drop inlets to help capture storm water. LANL will follow-up with LA County representative because the erosion is on county property.		
R003	R-SMA-1.95	31-Aug-11	Culvert -0002 is not effective; recommend retiring. Earthen channel/swale -0003 is performing erosion control / run-on control functions.		
R004	R-SMA-2.05	31-Aug-11	No deficiency found.		
R005	R-SMA-2.3	31-Aug-11	No deficiency found.		
R006	R-SMA-2.5	31-Aug-11	No deficiency found.		
B001	B-SMA-0.5	30-Aug-11	Maintenance recommended: clean out channel at earthen channel/swale -0005. Alteration of pathway observed: main channel above -0009 has been bulldozed. New erosion observed within the SMA; but no new erosion observed at 10-004(b), -004(a), -001(a), -001(b), -001(d), 10-008, or 10-009. There is a newly introduced roll-off bin located just outside (northeast) of 10-009.	Cleaned sediment out of channel/swale -0005.	15-Sep-11
B002	B-SMA-1	30-Aug-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
P001	ACID-SMA-1.05	06-Sep-11	No deficiency found.		
P002	ACID-SMA-2	06-Sep-11	Maintenance recommended. Clean out rock check dams - 0002 & -0013. Rock check dams are above Site; shovel sediment to the side/ above channel. Trash in drainages observed.	Removed trash and floatable debris from channel. Cleaned out sediment behind rock check dam - 0002. Cleaned out sediment behind rock check dam - 0013.	12-Oct-11
P002A	ACID-SMA-2.01	06-Sep-11	Reminded field crews not to walk through the SMA to access sampler.		
P003	ACID-SMA-2.1	06-Sep-11	There is floatable trash in some of the upper drainages.	Removed trash and floatable debris from channel	12-Oct-11
P004	P-SMA-0.3	19-Oct-11	Recommend retiring water bar -0005.		
P005	P-SMA-1	20-Oct-11	Retire concrete/asphalt channel/swale -0011. Asphalt berm -0010 does not exist - retire.		
P006	P-SMA-2	20-Oct-11	No deficiency found.		
P007	P-SMA-2.15	19-Oct-11	No deficiency found.		
P008	P-SMA-2.2	20-Oct-11	Modification recommended. Water is running under S-fence -0014.	Re-trenched and reset S-fence -0014 as needed to prevent undercutting.	09-Nov-11
P009	P-SMA-3.05	19-Oct-11	No deficiency found.		
L001	LA-SMA-0.85	29-Sep-11	Erosion downstream of sites 20' across and 15'+ deep starting to headcut under north-most gabion L00107010005. Trash in drainage.	No immediate follow-up required. Erosion to be addressed by engineered control. Recommend re-evaluation of gabion -0005 prior to next rainy season.	

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
L002	LA-SMA-0.9	04-Oct-11	Augmented control measure installation completed on 10/3/2011. Five (5) berms with matting; rock spillways on the bottom three. Wattles at stream channel. Stabilized with erosion control blanket.		
L003	LA-SMA-1	29-Sep-11	Modification recommended: need to extend wattles towards pylon to control erosion. Maintenance recommended: channel/swale -0005 has some holes that need repair. Erosion through site. Erosion of slope observed below top controls. Seed and wood mulch - 0009 is partially eroded. Culvert angle on site map is wrong.	No immediate follow-up required. Channel/swale -0005 is still operational. Backup runoff and sediment controls have been installed at base of slope. Recommend re-evaluation of controls prior to next rainy season.	
L004	LA-SMA-1.1	29-Sep-11	Permanent vegetation - vegetative buffer strip -0006 is now riprap - retire. Wetland vegetation is now a rock lined channel. Area disturbed by Diamond Drive construction project (LA County). Area adjacent to swale will need seeding.		
L005	LA-SMA-1.25	05-Oct-11	No deficiency found.		
L006	LA-SMA-2.1	13-Oct-11	No deficiency found.		
L007	LA-SMA-2.3	13-Oct-11	No deficiency found.		
L008	LA-SMA-3.1	05-Oct-11	No deficiency found.		
L009	LA-SMA-3.9	05-Oct-11	No deficiency found.		
L010	LA-SMA-4.1	05-Oct-11	No deficiency found.		
L011	LA-SMA-4.2	05-Oct-11	No deficiency found.		
L012	LA-SMA-5.01	05-Oct-11	No deficiency found.		
L012A	LA-SMA-5.02	05-Oct-11	No deficiency found.		
L013	LA-SMA-5.2	30-Sep-11	No deficiency found.		
L014	LA-SMA-5.35	30-Sep-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
L015	LA-SMA-5.31	30-Sep-11	Seed and wood mulch -0003 can be retired - good growth.		
L016	LA-SMA-5.33	04-Oct-11	No deficiency found.		
L017	LA-SMA-5.361	05-Oct-11	No deficiency found.		
L017A	LA-SMA-5.362	05-Oct-11	No deficiency found.		
L018	LA-SMA-5.51	30-Sep-11	No deficiency found.		
L018A	LA-SMA-5.52	30-Sep-11	No deficiency found.		
L018B	LA-SMA-5.53	30-Sep-11	No deficiency found.		
L018C	LA-SMA-5.54	30-Sep-11	Repair recommended: earthen berm -0002 has some erosion. Erosion of downstream side of berm is observed.	No immediate follow-up required. Earthen berm -0002 is still operational. Backup runoff and sediment controls installed below Site. Recommend re-evaluation of controls prior to next rainy season.	
L019	LA-SMA-5.91	13-Oct-11	Will need to evaluate site following completion of MDA V remediation activities for inclusion of permanent control measures.		
L019A	LA-SMA-5.92	13-Oct-11	No deficiency found.		
L020	LA-SMA-6.25	29-Sep-11	No deficiency found.		
L021	LA-SMA-6.27	29-Sep-11	No deficiency found.		
L022	LA-SMA-6.3	29-Sep-11	No deficiency found.		
L022A	LA-SMA-6.31	29-Sep-11	No deficiency found.		
L023	LA-SMA-6.32	29-Sep-11	No deficiency found.		
L024	LA-SMA-6.34	29-Sep-11	No deficiency found.		
L025	LA-SMA-6.36	29-Sep-11	No deficiency found.		
L026	LA-SMA-6.38	29-Sep-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
L027	LA-SMA-6.395	29-Sep-11	Seed and wood mulch -0006 can be retired - good growth.		
L028	LA-SMA-6.5	29-Sep-11	No deficiency found.		
L029	LA-SMA-9	29-Sep-11	No deficiency found.		
L030	LA-SMA-10.11	29-Sep-11	No deficiency found.		
L030A	LA-SMA-10.12	29-Sep-11	No deficiency found.		
D001	DP-SMA-0.3	29-Sep-11	No deficiency found.		
D002	DP-SMA-0.4	29-Sep-11	No deficiency found.		
D003	DP-SMA-0.6	13-Oct-11	No deficiency found.		
D004	DP-SMA-1	29-Sep-11	Concrete/asphalt channel/swale -0005 is not on the site map - change of control measures. Retire from control measure list.		
D005	DP-SMA-2	29-Sep-11	No deficiency found.		
D006	DP-SMA-2.35	29-Sep-11	No deficiency found.		
D007	DP-SMA-3	29-Sep-11	No deficiency found.		
D008	DP-SMA-4	29-Sep-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
S001	S-SMA-0.25	14-Oct-11	Recommend re-evaluations of the SMA drainage boundaries around Buildings 03-0038, 03-1400, and 03-0043 areas.		
S002	S-SMA-1.1	14-Oct-11	Riprap -0006 is full of sediment, causing change of flow path. Repair required: Gabion blanket -0005 flow path is buried in sand. Recommend removal of accumulated sediments. Control measures full of sediment are causing changes to runoff paths that are causing erosion. There is floatable waste (trash, cardboard, cans) within the SMA. Various piles and pieces of metal throughout the area that could contribute to TAL exceedances. Unmanaged erosion occurring throughout the majority of the SMA drainage. Unmanaged erosion off the road is causing undercutting of the road. Random metal scrap throughout site needs to be disposed of or recycled. Plastic lining the open trench running from the SMO fence corner towards edge of mesa is torn.	No immediate follow-up required. Backup run-on and runoff controls are in place. Recommend re-evaluation of controls prior to next rainy season. SMA is high priority and engineered control measures are in planning stage.	
S003	S-SMA-2	19-Oct-11	Erosion is occurring under gabion blanket -0006 within 03-056(c).	No immediate follow-up required. This gabion blanket cannot be repaired due to position on slope. Recommend retiring control; rip-rap -0005 serves same function. SMA is high priority and is being evaluated for engineered control measures.	
S003A	S-SMA-2.01	12-Sep-11	Utilities division plans to remove the lawn and replace with 'natural' low maintenance landscaping.		
S004	S-SMA-2.8	19-Oct-11	Repair recommended. Base course berm -0004 has been run over. Add material and compact.	No immediate follow-up required. Base course berm is still functional and back-up runoff and sediment controls are in place. Recommend re-evaluation of controls prior to next rainy season.	
S005	S-SMA-3.51	19-Oct-11	No deficiency found.		
S005A	S-SMA-3.52	19-Oct-11	No deficiency found.		

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Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
S005B	S-SMA-3.53	14-Oct-11	No deficiency found.		
S006	S-SMA-3.6	22-Sep-11	Erosion within the SMA has deposited sediment behind check dams located within the site; starting to cause bypassing of the check dams. Recommend removal of material from check dams. Erosion observed on slope of heavy equipment yard.	No immediate follow-up required. SMA is located at a facility that is also managed under the LANL MSGP. Repairs are being conducted through the MSGP program.	
S007	S-SMA-3.7	13-Oct-11	No deficiency found.		
S008	S-SMA-3.71	13-Oct-11	No deficiency found.		
S009	S-SMA-3.72	13-Oct-11	No deficiency found.		
S010	S-SMA-3.95	13-Oct-11	No deficiency found.		
S011	S-SMA-4.1	13-Oct-11	No deficiency found.		
S012	S-SMA-4.5	13-Oct-11	No deficiency found.		
S013	S-SMA-5	13-Oct-11	No deficiency found.		
S014	S-SMA-5.2	13-Oct-11	No deficiency found.		
S015	S-SMA-5.5	13-Oct-11	No deficiency found.		
S016	S-SMA-6	13-Oct-11	No deficiency found.		

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Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
C001	CDB-SMA-0.15	13-Oct-11	No deficiency found.		
C002	CDB-SMA-0.25	13-Oct-11	Maintenance recommended. Clean up trash and floatable debris in vicinity of riprap -0009.	Removed trash and floatable debris from area.	31-Oct-11
C003	CDB-SMA-0.55	13-Oct-11	No deficiency found.		
C004	CDB-SMA-1	13-Oct-11	No deficiency found.		
C005	CDB-SMA-1.15	13-Oct-11	No deficiency found.		
C006	CDB-SMA-1.35	13-Oct-11	No deficiency found.		
C007	CDB-SMA-1.54	13-Oct-11	No deficiency found.		
C008	CDB-SMA-1.55	13-Oct-11	No deficiency found.		
C009	CDB-SMA-1.65	13-Oct-11	No deficiency found.		
C010	CDB-SMA-4	02-Sep-11	No deficiency found.		
M001	M-SMA-1	17-Oct-11	No deficiency found.		
M002	M-SMA-1.2	12-Sep-11	Modification recommended: Rip rap -0008 is filling the channel forcing the water to flow out of the channel.	Extended and modified rip rap -0008 by creating 4' x 4' rip rap lined basin below outfall.	22-Sep-11
M002A	M-SMA-1.21	12-Sep-11	Modification recommended. Water is flowing around rock check dam -0004.	Modified rock check dam by extending both ends.	22-Sep-11
M002B	M-SMA-1.22	12-Sep-11	Modification recommended. Water is flowing around rock check dam -0003.	Modified rock check dam -0003 by extending east end.	22-Sep-11
M003	M-SMA-3	17-Oct-11	No deficiency found.		
M004	M-SMA-3.1	17-Oct-11	No deficiency found.		
M005	M-SMA-3.5	17-Oct-11	No deficiency found.		
M006	M-SMA-4	17-Oct-11	Repair/replacement recommended. Rock check dam -0010 is damaged. Rock check dam -0011 is gone; retire. Map correction required for rip rap -0012.	Repaired rock check dam -0010.	03-Nov-11

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
M007	M-SMA-5	17-Oct-11	No deficiency found.		
M008	M-SMA-6	17-Oct-11	No deficiency found.		
M009	M-SMA-7	17-Oct-11	No deficiency found.		
M010	M-SMA-7.9	17-Oct-11	Recommend re-evaluating sampler location prior to 2012 rainy season – possibly relocate sampler to outfall.		
M011	M-SMA-9.1	17-Oct-11	Recommend sampler installation modification; bottle intake is perpendicular to the direction of flow.		
M012	M-SMA-10	17-Oct-11	Repair recommended. Tree has fallen across rock check dam -0010; tree needs to be removed.	Removed fallen tree in front of sampler; repaired rock check dam -0010.	03-Nov-11
M012A	M-SMA-10.01	17-Oct-11	Recommend retiring seed & wood mulch -0002; add permanent vegetation / grass & shrubs (erosion control).		
M013	M-SMA-10.3	17-Oct-11	No deficiency found.		
M014	M-SMA-11.1	17-Oct-11	No deficiency found.		
M015	M-SMA-12	17-Oct-11	No deficiency found.		
M016	M-SMA-12.5	20-Oct-11	Map correction requested. Switch location of earthen berm -0010 with straw wattles -0002.		
M017	M-SMA-12.6	20-Oct-11	No deficiency found.		
M018	M-SMA-12.7	20-Oct-11	No deficiency found.		
M019	M-SMA-12.8	20-Oct-11	No deficiency found.		
M020	M-SMA-12.9	20-Oct-11	No deficiency found.		
M021	M-SMA-12.92	19-Oct-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
M022	M-SMA-13	19-Oct-11	Modification recommended: extend both ends of rock check dam -0010.	No immediate follow-up required. Backup run-on and runoff controls are present; recommend re-evaluation of controls prior to next rainy season.	
T001	Pratt-SMA-1.05	19-Oct-11	No deficiency found.		
T002	T-SMA-1	21-Sep-11	Replacement recommended: straw wattles -0003 are full of sediment. Erosion is observed where channel crosses fence.	No immediate follow-up required. Backup run-on and runoff controls are present. Recommend re-evaluation of controls prior to next rainy season.	
T003	T-SMA-2.5	17-Oct-11	No deficiency found.		
T004	T-SMA-2.85	17-Oct-11	No deficiency found.		
T005	T-SMA-3	17-Oct-11	Log check dams -0007 & -0008 are filling in.		
T006	T-SMA-4	17-Oct-11	No deficiency found.		
T007	T-SMA-5	17-Oct-11	No deficiency found.		
T008	T-SMA-6.8	17-Oct-11	No deficiency found.		
T009	T-SMA-7	17-Oct-11	No deficiency found.		
T010	T-SMA-7.1	17-Oct-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
E001	2M-SMA-1	19-Sep-11	No deficiency found.		
E002	2M-SMA-1.42	05-Oct-11	No deficiency found.		
E003	2M-SMA-1.43	06-Oct-11	No deficiency found.		
E004	2M-SMA-1.44	05-Oct-11	No deficiency found.		
E005	2M-SMA-1.45	05-Oct-11	No deficiency found.		
E006	2M-SMA-1.5	06-Oct-11	No deficiency found.		
E007	2M-SMA-1.65	11-Oct-11	No deficiency found.		
E008	2M-SMA-1.67	05-Oct-11	No deficiency found.		
E009	2M-SMA-1.7	19-Sep-11	No deficiency found.		
E010	2M-SMA-1.8	19-Sep-11	No deficiency found.		
E011	2M-SMA-1.9	19-Sep-11	No deficiency found.		
E012	2M-SMA-2	19-Sep-11	No deficiency found.		
E013	2M-SMA-2.2	19-Sep-11	No deficiency found.		
E014	2M-SMA-3	11-Oct-11	No deficiency found.		
E015	2M-SMA-2.5	11-Oct-11	No deficiency found.		
H001	3M-SMA-0.2	05-Oct-11	No deficiency found.		
H002	3M-SMA-0.4	06-Oct-11	No deficiency found.		
H003	3M-SMA-0.5	12-Oct-11	No deficiency found.		
H004	3M-SMA-0.6	12-Oct-11	No deficiency found.		
H005	3M-SMA-2.6	12-Oct-11	No deficiency found.		
H006	3M-SMA-4	12-Oct-11	No deficiency found.		
J001	PJ-SMA-1.05	06-Oct-11	Modification recommended: Water is flowing around the eastern end of water bar -0009.	No follow-up required. Backup run-on and runoff controls are present; recommend re-evaluation of controls prior to next rainy season.	
J002	PJ-SMA-2	06-Sep-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
J003	PJ-SMA-3.05	06-Sep-11	No deficiency found.		
J004	PJ-SMA-4.05	06-Sep-11	No deficiency found.		
J005	PJ-SMA-5	06-Oct-11	Modification recommended: water is flowing around the southern end of rock check dams -0011 and -0012.	Extended the south end of rock check dam -0011 to the northwest as marked on attached map. Extended the south end of rock check dam -0012 to the northwest as marked on attached map.	13-Oct-11
J006	PJ-SMA-5.1	06-Oct-11	No deficiency found.		
J007	PJ-SMA-6	11-Oct-11	Modification recommended: Extend Juniper Bales -0008 approximately 10 ft east using rock.	Added angular rock to extend east side of juniper bale -0008	02-Nov-11
J008	PJ-SMA-7	11-Oct-11	No deficiency found.		
J009	PJ-SMA-8	11-Oct-11	No deficiency found.		
J010	PJ-SMA-9	11-Oct-11	No deficiency found.		
J012	PJ-SMA-10	11-Oct-11	No deficiency found.		
J013	PJ-SMA-11	11-Oct-11	No deficiency found.		
J014	PJ-SMA-11.1	11-Oct-11	No deficiency found.		
J015	PJ-SMA-13	12-Oct-11	No deficiency found.		
J016	PJ-SMA-13.7	12-Oct-11	No deficiency found.		
J017	PJ-SMA-14	21-Sep-11	No deficiency found.		
J018	PJ-SMA-14.2	12-Oct-11	No deficiency found.		
J019	PJ-SMA-14.3	12-Oct-11	No deficiency found.		
J020	PJ-SMA-14.4	12-Oct-11	No deficiency found.		
J021	PJ-SMA-14.6	12-Oct-11	No deficiency found.		
J022	PJ-SMA-14.8	12-Oct-11	No deficiency found.		
J023	PJ-SMA-16	12-Oct-11	No deficiency found.		
J024	PJ-SMA-17	20-Sep-11	No deficiency found.		

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Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
J025	PJ-SMA-19	20-Sep-11	Additional control measures shown on map should be considered for addition to site; controlling runoff within the site. Angled road has changed drainage pattern at site.		
J026	PJ-SMA-18	20-Sep-11	New culvert to be installed by facility. Facility has completed work that changed flow patterns of site. Water bar -0008 covered by road regrading; bar ditch installed when road angled.	Retired water bar -0008. Added pre-existing earthen channel/swale.	16-Nov-11
J027	PJ-SMA-20	20-Sep-11	Trench drain feeds culvert by 54-0324; recommend adding to site map.		
J028	STRM-SMA-1.05	06-Oct-11	No deficiency found.		
J029	STRM-SMA-1.5	06-Oct-11	No deficiency found.		
J030	STRM-SMA-4.2	06-Oct-11	No deficiency found.		
J031	STRM-SMA-5.05	06-Oct-11	No deficiency found.		

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Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
V001	CDV-SMA-1.2	21-Sep-11	No deficiency found.		
V002	CDV-SMA-1.3	21-Sep-11	No deficiency found.		
V003	CDV-SMA-1.4	21-Sep-11	No deficiency found.		
V004	CDV-SMA-1.45	21-Sep-11	No deficiency found.		
V005	CDV-SMA-1.7	04-Oct-11	No deficiency found.		
V006	CDV-SMA-2	04-Oct-11	No deficiency found.		
V007	CDV-SMA-2.3	22-Sep-11	Recommend installation of two (2) rock check dams as marked with pin flagging in field. Retire wattle -0008.	Installed 2 rock check dams.	14-Oct-11
V008	CDV-SMA-2.41	19-Sep-11	Deep hole in slope ~1-2' adjacent to V00804060009. Water is leaving site just (1-2') west of V00803060002 - Need to extend to the west. Recommend adding rock berm and riprap rundown to site map as run-on and erosion and sediment controls. Lack of water at sampler may be due to location where water is leaving site west of V00803060002.	Filled hole in slope adjacent to rip rap -0009. Extended rip rap across fill to complete. Extended straw wattles -0002 to the west.	14-Oct-11
V008A	CDV-SMA-2.42	19-Sep-11	Water appears to be bypassing around the southwest end of V008A06010004; control measure needs to be extended to the southwest. Need erosion prevention downslope of the spillway from V008A06010004 where water is running around a retired check dam. A new rock check dam was installed upslope of V008A03060014 - erosion in area needs to be addressed. Extend V008A04060005 to the east to capture run-on from the fire road-area is eroding.	Extended rip rap -0005 to the north to capture runoff from fire road. Extended rock check dam -0004 to the south. Installed rip rap below rock check dam -0017. Installed rip rap on north side of fire road across from rock check dam 0001.	14-Oct-11

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
V009	CDV-SMA-2.5	19-Sep-11	New control measures have been installed at the site by the facility following the significant event that are not yet on the site map (completed 9-17-2011): two sets of straw wattles and four rock check dams near 06-010(c). Recommend additional control measures to address erosion within 16-010(d). Area northwest of V00904060009 needs seeding. Area west of 16-010(c) has destabilized with the slope eroding - recommend additional control measures in area.	Installed rock check dam inside. Installed rock check south of 16-010(d). Installed seed and wood mulch in bare area north of rip rap -0009.	20-Oct-11
V009A	CDV-SMA-2.51	19-Sep-11	Modification recommended: V009A06010004 and V009A06010003 need to be increased in size.	Added additional rock to rock check dam -0004. Added additional rock to rock check dam -0003.	17-Oct-11 20-Oct-11
V010	CDV-SMA-3	06-Sep-11	No deficiency found.		
V011	CDV-SMA-4	06-Sep-11	No deficiency found.		
V012	CDV-SMA-6.01	06-Sep-11	Recommend extending rundowns for earthen berm -0006 due to erosion at base of spillways. Recommend retiring erosion control blanket -0007 – near end of life. Erosion noted on site map. Erosion observed from edge of asphalt south of building 14-0023 in area between sites; additional control measure recommended to address issue. Site 14-006 - no deficiency found.	No immediate follow-up required. Backup run-on and runoff controls are present. Recommend re-evaluation of controls prior to next rainy season.	
V012A	CDV-SMA-6.02	06-Sep-11	Some rills forming on the blast berm slopes that need seeding - inadequate vegetation. Seeding upslope of earth berm on flat part of site is growing well.	Installed earth berm with spillway. Installed seed and wood mulch in bare areas.	22-Nov-11
V013	CDV-SMA-7	04-Oct-11	No deficiency found.		
V014	CDV-SMA-8	04-Oct-11	No deficiency found.		
V015	CDV-SMA-8.5	06-Sep-11	Installation of berms changed drainage area to the site. Recommend reevaluation of SMA boundary.		
V016	CDV-SMA-9.05	06-Oct-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
F001	F-SMA-2	01-Sep-11	Maintenance recommended: extend rundown to the southeast at rock rundown and by waterbar near F00104040003. Recommend additional sediment control at site. Note: Facility had proposed installation of a retention pond at the site (area shown on map would be a good location).	Built up and extended rock check dam -0004. Built up and extended rock check dam -0005. Built up and extended rock check dam -0007. Six (6) earth berms installed as augmented controls; rock berm -0008 replaced by new earth berm.	07-Sep-11 07-Sep-11 07-Sep-11 02-Dec-11
I001	PT-SMA-0.5	12-Oct-11	No deficiency found.		
I002	PT-SMA-1	12-Oct-11	No deficiency found.		
I003	PT-SMA-1.7	14-Oct-11	There is a gap in straw wattle -0003; recommend replacement with new wattle.	Replaced wattle -0003 with new wattle just above -0003. Retired -0003. Replaced wattle -0005 with new wattle just above -0005. Retired wattle -0005.	22-Sep-11 22-Sep-11
I004	PT-SMA-2	12-Oct-11	No deficiency found.		
I004A	PT-SMA-2.01	12-Oct-11	No deficiency found.		
I005	PT-SMA-3	12-Oct-11	No deficiency found.		
I007	PT-SMA-4.2	12-Oct-11	No deficiency found.		
W001	W-SMA-1	22-Sep-11	No deficiency found.		
W002	W-SMA-1.5	22-Sep-11	Modification recommended: Extend the west end of rock check dams -0010 and -0011 as shown on site map. Modify the site map as shown to correct the locations of rock check dams -0008 and -0009.	Extended the west side of rock check dam -0010 to the north. Extended the west side of rock check dam -0011 to the north.	20-Oct-11 20-Oct-11

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
W003	W-SMA-2.05	22-Sep-11	Modification recommended: water is flowing around rock check dam -0004 - extend ends. Evidence of flow from the SWMU drainage that has flowed around the sampler. New channel formed - see map markup. Additional controls are recommended to reduce flow and re-direct runoff to the sampler. Recommend installation of rock berm to redirect surface water.	Extended both ends of rock check dam -0004. Installed rock berm as marked on map to re-direct water into channel.	13-Oct-11 13-Oct-11
W004	W-SMA-3.5	22-Sep-11	No deficiency found.		
W005	W-SMA-4.1	22-Sep-11	No deficiency found.		
W006	W-SMA-5	06-Oct-11	Modification recommended: water going around both ends of rock check dam -0012. Recommend addition of two existing rock check dams to site map & control measure list - no deficiency found.	Extended both ends of rock check dam -0012.	13-Oct-11
W007	W-SMA-6	22-Sep-11	No deficiency found.		
W008	W-SMA-7	22-Sep-11	No deficiency found.		
W009	W-SMA-7.8	22-Sep-11	No deficiency found.		
W010	W-SMA-7.9	22-Sep-11	No deficiency found.		
W011	W-SMA-8	22-Sep-11	Recommend re-routing the discharge from the culvert before next rainy season.		
W012	W-SMA-8.7	22-Sep-11	No deficiency found.		
W012A	W-SMA-8.71	22-Sep-11	No deficiency found.		
W013	W-SMA-9.05	22-Sep-11	No deficiency found.		
W014	W-SMA-9.5	06-Oct-11	No deficiency found.		
W015	W-SMA-9.7	06-Oct-11	No deficiency found.	Straw wattle -0003 staked down during inspection.	06-Oct-11
W016	W-SMA-9.8	06-Oct-11	No deficiency found.		
W017	W-SMA-9.9	06-Oct-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
W018	W-SMA-10	06-Oct-11	No deficiency found.		
W019	W-SMA-11.7	05-Oct-11	Recommend retiring damaged straw wattle -0028.		
W020	W-SMA-12.05	05-Oct-11	No deficiency found.		
W021	W-SMA-14.1	06-Sep-11	No deficiency found.		
W022	W-SMA-15.1	04-Oct-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
A001	A-SMA-1.1	01-Sep-11	No deficiency found.		
A002	A-SMA-2	01-Sep-11	Repair recommended. Earthen berm -0008 has been breached by facility and needs to be repaired.	Repaired breach and extended berm north.	15-Sep-11
A003	A-SMA-2.5	01-Sep-11	No deficiency found.		
A004	A-SMA-2.7	01-Sep-11	Possibly re-evaluate sampler location to move further down roadside ditch. SMA has sampled, we will wait for sample results before re-evaluating sampler location.		
A005	A-SMA-2.8	01-Sep-11	Recommend modification to sampler setup and/or wait to see if water flows around berm. Evaluate addition of base course cap and removal of vegetation, or just remove vegetation. Cleanup activities have removed most vegetative cover.		
A006	A-SMA-3	01-Sep-11	Evaluate option of retiring -0006, -0007 and -0008 and install rock check dams.		
A007	A-SMA-3.5	01-Sep-11	No deficiency found.		
A008	A-SMA-4	04-Oct-11	No deficiency found.		
A009	A-SMA-6	04-Oct-11	No deficiency found.		

Table F-2
Summary of Annual Erosion Evaluation Inspections

Permitted Feature	SMA Number	Inspection Date	Observations	Maintenance Performed	Maintenance Date
Q001	CHQ-SMA-0.5	20-Sep-11	No deficiency found.		
Q002	CHQ-SMA-1.01	20-Sep-11	No deficiency found.		
Q002A	CHQ-SMA-1.02	20-Sep-11	No deficiency found.		
Q002B	CHQ-SMA-1.03	20-Sep-11	No deficiency found.		
Q003	CHQ-SMA-2	20-Sep-11	No deficiency found.		
Q004	CHQ-SMA-3.05	20-Sep-11	No deficiency found.		
Q005	CHQ-SMA-4	20-Sep-11	No deficiency found.		
Q006	CHQ-SMA-4.1	20-Sep-11	No deficiency found.		
Q007	CHQ-SMA-4.5	20-Sep-11	No deficiency found.		
Q008	CHQ-SMA-5.05	20-Sep-11	No deficiency found.		
Q009	CHQ-SMA-6	19-Sep-11	No deficiency found.		
Q010	CHQ-SMA-7.1	20-Sep-11	No deficiency found.		

Table F-3
Summary of Significant Event Inspections

SMA ID	Purpose	Inspection Date	Observations	Maintenance Performed	Maintenance Date
A-SMA-2	Assess impact of small fire at TA-39 on June 15, 2011.	20-Jun-11	The fire did not directly impact any IP control measures but could result in increased runoff and sediment to the sampler location. Evaluated additional control measures to manage run-on with Facility Operations personnel. Recommended ditch maintenance and installation of three or more rock check dams.	Recommendations for additional control measures were given to TA-39 Facility Operations staff.	
CHO-SMA-6	Las Conchas fire recovery inspection to assess impact of wildfire mitigation actions.	08-Jul-11	Rock check dams -0001, -0002, -0007 and -0008 acted as backup control measures during blading of fire breaks. Recommend installation of 3 rock berms and seeding bare areas if necessary to control erosion.	Three (3) additional rock berms installed.	17-Oct-11
A-SMA-6	Las Conchas fire recovery inspection to assess impact of wildfire mitigation actions.	08-Jul-11	Paved road margins were bladed to create a fire break. Activities should have little impact to water quality. All controls functioned as backup during blading activities.		
CDV-SMA-1.4	Inspection following post-Las Conchas Fire storm water flows on August 3, 2011.	08-Aug-11	Most controls in main channels were destroyed and will need to be replaced. See map for area impacted by the flood event. Recommend installation of 9 new rock check dams in channels; approximately 10 wattles on west area of SMA and 1 rock-lined channel above sampler (see site map).	Ten (10) wattles and two (2) rock check dams installed.	11-Aug-11
CDV-SMA-1.4	Inspection following post-Las Conchas Fire storm water flows on August 21, 2011.	23-Aug-11	Crews had installed 10 wattles and one (1) new rock check dam since the previous flood. The new rock check dam and one existing rock check dam (-0012) need maintenance. The wattles will need to be re-staked and crews will need to complete installation of storm water control configuration described in last significant event inspection.	Seven (7) additional rock check dams installed; riprap lined channel re-established.	9-Aug-11
M-SMA-3	Potable water line break on Nov. 25, 2011, during Thanksgiving break.	29-Nov-11	Recommend maintenance for riprap M03040600008.	Repaired and modified rip rap -0008. Rills caused by water line break were raked out and rock was added to extend rip rap to the west. Disturbed areas were seeded.	1-Dec-2011

Table F-4
Summary of Visual Inspections for TAL Exceedances

Permitted Feature	SMA ID	Inspection Date	Observations	Maintenance Performed	Maintenance Date
R002	R-SMA-1	21-Sep-11	No deficiency found.		
L001	LA-SMA-0.85	25-Nov-11	No deficiency found.		
L003	LA-SMA-1	29-Nov-11	No deficiency found.		
L004	LA-SMA-1.1	29-Nov-11	No deficiency found.		
L005	LA-SMA-1.25	29-Nov-11	No deficiency found.		
L010	LA-SMA-4.1	29-Nov-11	No deficiency found.		
D007	DP-SMA-3	28-Nov-11	Site map shows locations of berms to be installed as augmented controls. Recommend moving sampler to southern perimeter of 21-013 (c) before next rainy season. Current sampler location receives substantial runoff from road.	Planned additional control measures include the installation of approximately 7 runoff earth berms, wood mulch, and seed. Control measures will be installed when weather conditions allow.	n/a
S001	S-SMA-0.25	14-Oct-11	Majority of SMA is paved or landscaped surfaces with minimal contact for the storm water to sediments. High traffic volume and number of fences could contribute to the MTAL exceedance for Zn. Recommend evaluating improvements to the channel that runs through 03-013(a) and 03-052(f) to aid in minimizing contact of the storm water with sediments.		
S003	S-SMA-2	19-Oct-11	Recommend maintenance to address erosion under gabion blanket -0006 within 03-056(c).	No follow-up required. This gabion blanket cannot be repaired due to position on slope. Recommend retiring control; rip-rap -0005 serves same function. High priority SMA - being evaluated for engineered control measures.	n/a
S003A	S-SMA-2.01	24-May-11	No deficiency found.		
S003A	S-SMA-2.01	20-Oct-11	No deficiency found.		
S006	S-SMA-3.6	24-May-11	No deficiency found.		

Table F-4
Summary of Visual Inspections for TAL Exceedances

Permitted Feature	Site Monitoring Area	Inspection Date	Observations	Maintenance Performed	Maintenance Date
E002	2M-SMA-1.42	7-Nov-2011	No deficiency found.		
E004	2M-SMA-1.44	7-Nov-2011	No deficiency found.		
E005	2M-SMA-1.45	19-Oct-2011	No deficiency found.		
E007	2M-SMA-1.65	7-Nov-2011	No deficiency found.		
E010	2M-SMA-1.8	18-Oct-11	No deficiency found.		
E012	2M-SMA-2	17-Oct-11	No deficiency found.		
J003	PJ-SMA-3.05	7-Nov-11	No deficiency found.		
J006	PJ-SMA-5.1	7-Nov-11	No deficiency found.		
J027	PJ-SMA-20	27-Oct-11	No deficiency found.		
J030	STRM-SMA-4.2	7-Nov-11	No deficiency found.		
J031	STRM-SMA-5.05	15-Oct-11	No deficiency found.		
V004	CDV-SMA-1.45	7-Nov-11	No deficiency found.		
V008	CDV-SMA-2.41	7-Nov-11	No deficiency found.		
V010	CDV-SMA-3	8-Nov-11	No deficiency found.		
V012A	CDV-SMA-6.02	8-Nov-11	No deficiency found.		
W002	W-SMA-1.5	8-Nov-11	No deficiency found.		
W003	W-SMA-2.05	20-Oct-11	No deficiency found.		
W017	W-SMA-9.9	20-Oct-11	No deficiency found.		
F001	F-SMA-2	31-Oct-11	Recommend extending rundown to the southeast at rock rundown and by water bar near F00104040003. Recommend additional sediment control measures at site. Facility has proposed installation of a retention pond at the site (area shown on map would be a good location).	Built up and extended rock check dams -0004, -0005, and -0007. Installed 6 earthen berms as augmented control measures. Rock check dam -0008 replaced by new earth berm.	09/07/2011 12/2/2011
I004A	PT-SMA-2.01	8-Nov-11	No deficiency found.		

Table F-4
Summary of Visual Inspections for TAL Exceedances

Permitted Feature	Site Monitoring Area	Inspection Date	Observations	Maintenance Performed	Maintenance Date
A004	A-SMA-2.7	20-Oct-11	Facility has been mowing in SMA area. Recommend replacing wattles with earth berm.		
Q002A	CHO-SMA-1.02	7-Nov-11	No deficiency found.		

Table F-5
Summary of Remediation Construction Activity Inspections

SMA Number	Purpose	Inspection Date	Backup controls in place?	Observations
2M-SMA-1.42	Augmented control measure(s) installation	21-Nov-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	29-Nov-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 3	08-Dec-11	Yes	No deficiency found.
2M-SMA-1.44	Augmented control measure(s) installation	21-Nov-11	Yes	No deficiency found.
2M-SMA-1.45	Augmented control measure(s) installation	26-Oct-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	01-Nov-11	Yes	No deficiency found.
2M-SMA-1.67	Augmented control measure(s) installation	26-Oct-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	01-Nov-11	Yes	No deficiency found.
3M-SMA-0.2	Augmented control measure(s) installation	07-Sep-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	15-Sep-11	Yes	No deficiency found.
3M-SMA-0.4	Augmented control measure(s) installation	14-Sep-11	Yes	No deficiency found.
CDB-SMA-0.15	Augmented control measure(s) installation	05-Aug-11	Yes	Recommended seeding areas of soil disturbance after earthen berm installation.
	Augmented control measure(s) installation – follow-up	17-Aug-11	n/a	Verified that areas of soil disturbance have been reseeded.
CDB-SMA-1.65	Augmented control measure(s) installation	11-Aug-11	Yes	Minor tracking from sediment upslope of gate leaving the site.
	Augmented control measure(s) installation - Week 2	17-Aug-11	Yes	Requested that area upslope of the new earthen berm be reseeded.
CDV-SMA-3	Augmented control measure(s) installation	21-Nov-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	29-Nov-11	Yes	No deficiency found.
CDV-SMA-6.02	Augmented control measure(s) installation	23-Nov-11	Yes	No deficiency found.
CDV-SMA-8	Augmented control measure(s) installation	15-Nov-11	Yes	No deficiency found.
CHQ-SMA-4	Augmented control measure(s) installation	20-Jul-11	Yes	No deficiency found.
CHQ-SMA-4.5	Augmented control measure(s) installation	20-Jul-11	Yes	No deficiency found.
CHQ-SMA-7.1	Augmented control measure(s) installation	20-Jul-11	Yes	No deficiency found.
DP-SMA-0.3	Augmented control measure(s) installation	11-Aug-11	Yes	No deficiency found.

Table F-5
Summary of Remediation Construction Activity Inspections

SMA Number	Purpose	Inspection Date	Backup controls in place?	Observations
DP-SMA-3	Augmented control measure(s) installation	08-Dec-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	15-Dec-11	Yes	Construction work halted due to snowstorms. Backup control measures are in place.
F-SMA-2	Augmented control measure(s) installation	29-Nov-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	09-Dec-11	Yes	No deficiency found.
LA-SMA-0.9	Augmented control measure(s) installation	04-Oct-11	Yes	No deficiency found.
LA-SMA-10.12	Augmented control measure(s) installation	17-Aug-11	Yes	No deficiency found.
LA-SMA-5.33	Augmented control measure(s) installation	23-Aug-11	Yes	Additional run-on controls recommended.
	Augmented control measure(s) installation	01-Sep-11	Yes	First berm installed on 8/23/11 was eroded by storm event. Berm was rebuilt and armored using rock. Two diversion berms made of millings were installed upslope of the site for additional run-on control.
M-SMA-1.21	Augmented control measure(s) installation	05-Aug-11	Yes	Backup control measures could not be identified by the inspector at the time of inspection. The construction project leader was immediately contacted and straw wattles were installed. The construction subcontractor was ordered to ensure that backup control measures are in place prior to initiating soil disturbance activities.
M-SMA-12.9	Augmented control measure(s) installation	05-Aug-11	Yes	No deficiency found.
M-SMA-13	Augmented control measure(s) installation	05-Aug-11	Yes	No deficiency found.
PJ-SMA-14	Augmented control measure(s) installation	21-Nov-11	Yes	No deficiency found.
PJ-SMA-14.6	Augmented control measure(s) installation	21-Nov-11	Yes	No deficiency found.
PJ-SMA-4.05	Augmented control measure(s) installation	03-Nov-11	Yes	No deficiency found.
PJ-SMA-6	Augmented control measure(s) installation	03-Nov-11	Yes	No deficiency found.
S-SMA-3.71	Augmented control measure(s) installation	26-Jul-11	Yes	No deficiency found.
S-SMA-3.72	Augmented control measure(s) installation	26-Jul-11	Yes	No deficiency found.
STRM-SMA-1.5	Augmented control measure(s) installation	25-Aug-11	Yes	No deficiency found.

Table F-5
Summary of Remediation Construction Activity Inspections

SMA Number	Purpose	Inspection Date	Backup controls in place?	Observations
	Augmented control measure(s) installation - Week 2	01-Sep-11	Yes	Berm material observed on road from material transfer. Construction subcontractor was requested to sweep up the excess material.
STRM-SMA-5.05	Augmented control measure(s) installation	19-Oct-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	26-Oct-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 3	03-Nov-11	Yes	Recommend seeding area when weather conditions are favorable in the spring.
W-SMA-8	Augmented control measure(s) installation	15-Nov-11	Yes	No deficiency found.
W-SMA-9.05	Augmented control measure(s) installation	15-Nov-11	Yes	No deficiency found.
W-SMA-9.5	Augmented control measure(s) installation	15-Nov-11	Yes	No deficiency found.
W-SMA-9.9	Augmented control measure(s) installation	07-Nov-11	Yes	No deficiency found.
W-SMA-11.7	Augmented control measure(s) installation	22-Sep-11	Yes	No deficiency found.
W-SMA-12.05	Augmented control measure(s) installation	22-Sep-11	Yes	No deficiency found.
	Augmented control measure(s) installation - Week 2	28-Sep-11	Yes	Augmented control measures will alter the flow pattern at part of the site.

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NPDES Permit No. NM0030759
Individual Permit Annual Report
January 1 – December 31, 2011

ATTACHMENT 1

Supporting Documentation for Permitted Sites with Certificates
of Completion under the NMED Consent Order

LA-UR-12-10341

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BILL RICHARDSON
GOVERNOR

State of New Mexico
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RON CURRY
SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

September 13, 2006

David Gregory, Federal Project Director
Los Alamos Site Operations
Department of Energy
528 35th Street, Mail Stop A316
Los Alamos, New Mexico 87544

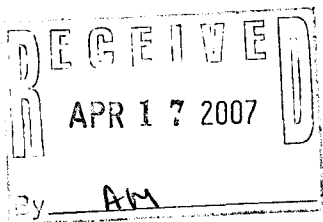
David McInroy, Deputy Project Director
Environmental Services
Los Alamos National Laboratory
P.O. Box 1663
Mail Stop M992
Los Alamos, New Mexico 87545

**SUBJECT: CERTIFICATES OF COMPLETION FOR SOLID WASTE
MANAGEMENT UNITS 53-002(a) AND 53-002(b), TECHNICAL AREA 53
LOS ALAMOS NATIONAL LABORATORY
EPA ID # NM0890010515
HWB-LANL-04-002**

Dear Messrs. Gregory and McInroy:

The New Mexico Environment Department (NMED) is in receipt of the *Request for Certificates of Completion for Solid Waste Management Units 53-002(a) and 53-002(b)*, dated August 15, 2006 and referenced by EP2006-0744.

Solid waste management unit (SWMU) 53-002(a) consists of two surface impoundments and SWMU 53-002(b) consists of one surface impoundment. Together, these two SWMUs comprise Consolidated Unit 53-002(a)-99. NMED has determined that the requirements of the March 1, 2005 Consent Order (Order) have been satisfied for these sites. NMED hereby issues a "Corrective Action Complete with Controls" certificate of completion for SWMUs 53-002(a) and 53-002(b) pursuant to Section VII.E.6.b of the Order. The control, as stated in the Permittees' approved TA-53 Investigation/Remediation Report, is that the land use remain industrial.

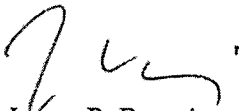


Messrs. Gregory and McInroy
September 13, 2006
Page 2

The Permittees may now initiate a "Class 3 Permit Modification for Corrective Action Complete" pursuant to the terms of the Permit and Section III.W.3.b of the Order. If the Class 3 Permit Modification for Corrective Action Complete is granted, SWMUs 53-002(a) and 53-002(b) will be removed from the list of SWMUs requiring corrective action and placed on the "Corrective Action Complete with Controls" list. In accordance with Section III.W.3b, the controls will then be enforceable under the Permit.

If you have any questions, please contact Kathryn Chamberlain of my staff at (505) 428-2546.

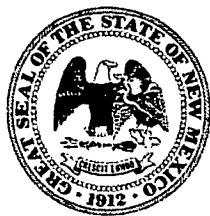
Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

JPB:kmc

cc: K. Chamberlain, NMED HWB
D. Goering, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
L. King, EPA 6PD-N
N. Quintana, LANL E/ER, MS M992
A. Phelps, LANL ADEP, MS J591
file: Reading and LANL '06 TA 53: [SWMU 53-002(a) & 53-002(b)]



NEW MEXICO
ENVIRONMENT DEPARTMENT

CT 07-090
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07 09 16 AM 10:16
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CERTIFIED MAIL – RETURN RECEIPT REQUESTED

August 13, 2007

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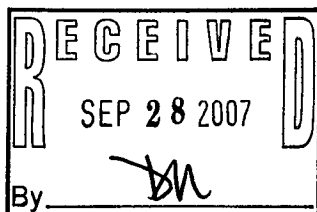
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**RE: APPROVAL OF THE INVESTIGATION REPORT FOR CONSOLIDATED UNIT
73-002-99 AND CORRECTIVE ACTION OF SOLID WASTE MANAGEMENT
UNIT 73-002, AT TECHNICAL AREA 73, LOS ALAMOS NATIONAL
LABORATORY (LANL),
EPA ID #NM0890010515
HWB-LANL-07-016**

Dear Messrs. Gregory and McInroy:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security LLC's (LANS) (collectively, the Permittees) *Investigation Report for Consolidated Unit 73-002-99 and Corrective Action of Solid Waste Management Unit 73-002, at Technical Area 73 (Report)*, dated July 2007 and referenced by LA-UR-07-4479/EP2006-1079. NMED has reviewed this document and hereby issues this Notice of Approval.

Consolidated Unit (CU) 73-002-99 is comprised of the following Solid Waste Management Units (SWMUs) and Area of Concern (AOC):



- SWMU 73-002 is a former incinerator and surface disposal area,
- AOC 73-003 is a former steam-cleaning facility (former building 00-1123) for garbage trucks,
- SWMU 73-004(a) is a former septic system that received sanitary waste from toilets and showers in the incinerator building,
- SWMU 73-004(b) was a concrete septic tank that discharged wash water from the steam-cleaning plant through a 6-in. vitrified clay pipe (VCP) drainline to an outfall on the slope of Pueblo Canyon and,
- SWMU 73-006 consisted of two drainlines that discharged to Pueblo Canyon from the incinerator.

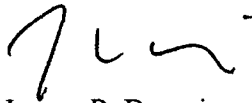
NMED has determined that the requirements of the March 1, 2005 Order on Consent (Order) have been satisfied for these sites. This letter serves as a "Corrective Action Complete with Controls" certificate of completion for SWMUs 73-002, 73-004(a), 73-004(b), 73-006, and AOC 73-003 pursuant to Section VII.E.6.b of the Order.

Although levels of arsenic in discrete locations exceed applicable residential cleanup levels (e.g., 13.2 mg/kg at location 73-27314 at SWMU 73-002 and 13 mg/kg at location 73-02216 at SWMU 73-004(b)), these locations are virtually inaccessible to human or ecological receptors. However, the potential for transport of contaminants down gradient via storm water exists. The Permittees shall therefore install permanent and appropriate storm water controls, which will prevent the down gradient transport of contaminants via storm water. The Permittees must submit a work plan for installation of the storm water controls by September 30, 2007. The work plan shall include a description of all controls proposed for installation at CU 73-002-99 and a proposed inspection schedule for the proposed controls. If the Permittees choose to remove any soil/tuff containing arsenic concentrations above residential screening levels in the future, NMED will consider withdrawal of the control requirement.

Messrs. Glenn and Watkins
August 13, 2007
Page 3

Please contact Kathryn Roberts at (505) 476-6041 should you have any questions.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
K. Roberts, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
L. King, EPA 6PD-N
G. Rael, DOE LASO, MS A316
S. Stiger, ENV MS J591
file: Reading and LANL TA-50 '07 (SWMU; 50-009)

CT 08-015



BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

NEW MEXICO
ENVIRONMENT DEPARTMENT

100116
2



RON CURRY
Secretary

JON GOLDSTEIN
Deputy Secretary

Hazardous Waste Bureau

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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 23, 2008

David Gregory
Federal Project Director
Los Alamos Site Office
Department of Energy
528 35th Street, Mail Stop A316
Los Alamos, NM 87544

David McInroy
Remediation Services Deputy Project Director
Los Alamos National Laboratory
P.O. Box 1663, MS M992
Los Alamos, NM 87545

08 JAN 25 AM 11:51

**RE: APPROVAL OF LOS ALAMOS NATIONAL LABORATORY
PROPOSAL FOR NO FURTHER ACTION
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-02-019**

Dear Messrs. Gregory and McInroy:

The New Mexico Environment Department (NMED) has received and reviewed the United States Department of Energy (DOE) and the Los Alamos National Security, LLC (LANS) (collectively, the Permittees) *Los Alamos National Laboratory Proposal for No Further Action*, dated September 2002 and referenced by LA-UR-02-5883/ER2002-0624. The Permittees provided additional information (via an email sent by Linda Nonno to Neclan Dhawan on October 2, 2007) subsequent to conferring with NMED.

NMED has reviewed the document and the additional information, and agrees that no further corrective action is necessary at solid waste management units (SWMUs) 03-011, 03-046, 16-026(f), 16-030(c) and 73-004(c). NMED concurs that the above mentioned SWMUs do not pose unacceptable risk to human health and the environment. NMED has determined that a corrective action complete without controls designation is appropriate for these SWMUs. However, if in the future any additional information becomes available that indicates that the site may pose a risk to human health or the environment, NMED will require the Permittees to conduct additional corrective action at these sites.

Messrs. Gregory and McInroy
January 23, 2008
Page 2

NMED is hereby providing this letter as a 'Certificate of Completion,' which satisfies the requirements outlined in the Section VII.E.6.b of the Consent Order. The Permittees may now request a Class 3 Permit Modification for Corrective Action Complete for SWMUs 03-011, 03-046, 16-026(f), 16-030(c) and 73-004(c) pursuant to terms of the Permit and Section III.W.3.b of the Consent Order, to remove these sites from the Module VIII of the Permit.

Please contact Neelam Dhawan of my staff at (505) 476-6042 should you have any questions.

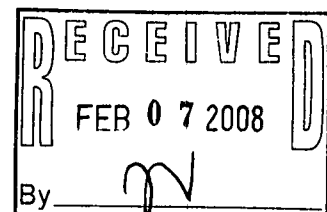
Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
K. Roberts, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
G. Rael, DOE LASO, MS A316
S. Stiger ENV MS J591

File: LANL, NFA (SWMUs 03-011, 03-046, 16-026(f), 16-030(c) and 73-004(c)), 2008





BILL RICHARDSON
Governor

DIANE DENISH
Lieutenant Governor

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RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

10 APR 7 AM 9:32

April 6, 2010

George J. Rael
Environmental Operations Manager
Los Alamos Site Office
Department of Energy
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael Graham
Associate Director Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS 991
Los Alamos, NM 87545

**RE: APPROVAL
REQUEST FOR CERTIFICATES OF COMPLETION FOR TWO SOLID WASTE
MANAGEMENT UNITS AND FIVE AREAS OF CONCERN IN THE NORTH
ANCHO CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-022**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Two Solid Waste Management Units and Five Areas of Concern in North Ancho Canyon Aggregate Area* (Request), dated March 9, 2010 and referenced by EP2010-0117. Results of the associated site investigation were presented in the *Investigation Report for North Ancho Canyon Aggregate Area, Revision 1*, dated January 2010, and referenced by LA-UR-10-0125 and EP2010-0005.

SWMU 39-001(b) is an inactive disposal area consisting of three trenches that accepted debris from firing site SWMU 39-008, empty chemical containers, and office waste. Pit 1 was constructed in the late 1960s. Pit 2 was constructed parallel and directly next to Pit 1 and was

used from 1976 to 1981. Pit 3 was constructed directly south of the other two pits and was used from 1981 to 1989. In 2009, the Pits were located, excavated, and the contents were removed. Based on review of associated soil sample analytical data, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates SWMU 39-001(b) does not pose an unacceptable risk to human health or to ecological receptors.

AOC 39-002(c) is a former outdoor satellite accumulation area (SAA) that was located on asphalt-paved areas next to the southwest corner of the gas-gun support structure (39-56). This SAA stored waste paper, solvent-contaminated rags (ethanol, acetone, and trichloroethene), and vacuum grease. In 2009, the SAA was investigated and characterized. Based on review of associated soil sample analytical data, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates AOC 39-002(c) does not pose an unacceptable risk to human health or to ecological receptors.

AOC 39-002(d) is a former SAA that was removed from service, administratively closed, and is no longer used for storage. The site only operated as an SAA and met all regulatory requirements (20.4.1.300 NMAC) for SAAs.

AOC 39-002(e) is a former satellite accumulation area (SAA) that was removed from service, administratively closed, and is no longer used for storage. The site only operated as an SAA and met all regulatory requirements (20.4.1.300 NMAC) for SAAs.

AOC 39-002(f) is a former SAA located on the asphalt driveway outside the northeast corner of a support structure (39-88) for an active firing site (SWMU 39-004(e)). Before this area became a SAA, it was used to store small quantities of waste solvents (ethanol, acetone, and trichloroethene), copper sulfate, transformer oil, vacuum grease, and photographic wastes. Based on review of associated soil sample analytical data from 2009, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates AOC 39-002(f) does not pose an unacceptable risk to human health or to ecological receptors.

SWMU 39-005 is a former seepage pit used to dispose of HE-contaminated decant from operations at an explosives operations building (39-04). The seepage pit measured approximately 5-ft x 5-ft x 7-ft and was not lined or otherwise contained. The gravel and HE-contaminated soil that comprised the pit were removed in 1986. Based on review of associated soil sample analytical data from 2009, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates SWMU 39-005 does not pose an unacceptable risk to human health or to ecological receptors.

AOC 39-007(d) is a storage area (structure 39-142) consisting of a bermed asphalt pad covered with a metal roof. A valved drainpipe discharged stormwater from the bermed area across the access road toward the Ancho Road drainage. The area was initially used to store metal and at times, drums of silicon transformer oil. Later it was used as a SAA where chemicals, including dielectric fluid, ethylene glycol, solvents, and kerosene were stored. The SAA was removed in

Messrs. Rael and Graham
April 6, 2010
Page 3

the 1990s, but the storage area continued to be used to store nonhazardous materials such as cable and wire. Based on review of associated soil sample analytical data from 2009, the nature and extent of contamination at the site has been defined. The evaluation of potential human health and ecological risks from the site indicates AOC 39-007(d) does not pose an unacceptable risk to human health or to ecological receptors.

NMED has determined that the requirements of the Consent Order have been satisfied and the aforementioned sites qualify for "Corrective Action Complete Without Controls" status. This letter serves as the certificate of completion for SWMUs 39-001(b) and 39-005, and AOCs 39-002(c), 39-002(d), 39-002(e), 39-002(f), and 39-007(d) pursuant to Section VII.E.6.b of the Consent Order.

If, in the future, any additional information becomes available that indicates that one or more of these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites.

Please contact Kathryn Roberts at (505) 476-6041 should you have any questions.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
K. Roberts, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
L. King, EPA 6PD-N
S. Schulman, DOE-LASO, MS A316
L. Nonno, EP-WES-EDA, MS M992
J. McCann, EP-CAP, MS M992
D. McInroy, EP-CAP, MS M992
file: Reading and LANL TA-39 '10 (SWMUs: 39-001(b) and 39-005, AOCs: 39-002(c), 39-002(d), 39-002(e), 39-002(f), and 39-007(d))



BILL RICHARDSON
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RON CURRY
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SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 7, 2010

George J. Rael, Federal Projects Director
Environmental Projects Office
U.S. Department. of Energy / National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
UPPER MORTANDAD CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-055**



Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Three SWMUs and Three AOCs in the Upper Mortandad Canyon Aggregate Area* (Request), dated July 01, 2010 and referenced by EP2010-01293. Results of the site investigations were presented in the *Investigation Report for the Upper Mortandad Canyon Aggregate Area, Revision 1*, dated April 2010.

The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following solid waste management units/ areas of concern (SWMUs/AOCs) and the sites qualify for "Corrective Action Complete".

1. AOC 03-041 is an underground holding tank for industrial low-level radioactive wastewater. The tank is a 15 ft x 20 ft x 15ft double-walled fiberglass corrosion-proof

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- tank with a leak-detection system. It is located in a below grade concrete-lined vault and the base of the vault is 15 ft below ground surface. Although it is currently on active status, it has never been used. Investigations conducted during 2009 defined the nature and extent of contamination. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-041. NMED hereby issues the Certificate of Completion for AOC 03-041 pursuant to Section VII.E.6.b of the Consent Order. Controls are not required at the site.
2. AOC 48-002(e) was a container storage area located on the east side of building 48-0001. The storage area is mostly paved except for a small portion of soil left unpaved to allow access to underground utilities. Investigations conducted during 1993, 1997, and 2009 defined the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. NMED hereby issues the Certificate of Completion for AOC 48-002(e) pursuant to Section VII.E.6.b of the Consent Order. Controls are not required at the site
 3. SWMU 48-007(a) is an outfall formerly used to discharge treated cooling tower blowdown from two cooling towers. Water used in these cooling towers was treated to control scale, corrosion, and biological growth. The outfall was formerly listed on the National Pollutant Discharge Elimination System (NPDES) permit but was removed from the NPDES permit in 1999. Investigations conducted during 1993 and 2009 defined the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. Storm water continues to flow through the outfall and may mobilize the residual contamination at the site. The SWMU is monitored under the current NPDES permit. The control for the site is continuation of storm water monitoring under NPDES permit for potential transportation of residual contamination. NMED hereby issues the Certificate of Completion for SWMU 48-007(a) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.
 4. SWMU 48-007(d) is an outfall formerly used to discharge noncontact cooling water that cooled a vacuum pump. The outfall was formerly listed on the NPDES permit, but was removed from the permit in 1998. Investigations conducted during 1993 and 2009 defined the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. Storm water continues to flow through the outfall and may result in mobilization of the residual contamination at the site. The SWMU is monitored under the current NPDES permit. The control for the site is continuation of storm water monitoring under NPDES permit for potential transportation of residual contamination. NMED hereby issues the Certificate of Completion for SWMU 48-007(d) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.
 5. SWMU 48-010 is an unlined surface impoundment that received discharge from SWMUs 48-007(a) and 48-007(d). Investigations conducted during 1993, 1995, and 2009 defined

the nature and extent of contamination at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. Storm water continues to flow across the site and it is monitored under current NPDES permit. The control for the site is continuation of storm water monitoring under NPDES permit for potential transportation of residual contamination. NMED hereby issues the Certificate of Completion for SWMU 48-010 pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

6. AOC 48-012 is a small area of stained soil that was discovered during routine trenching operations conducted in 2002. The site was reported as a one-time spill. Removal of the contaminated soil was conducted as a voluntary corrective action in 2002. Additional samples were collected in 2009 to define the nature and extent of contamination. Evaluation of human health risk indicates that there is potential unacceptable risk posed by the site under residential scenario, but not under the industrial and construction worker scenario. There are no complete exposure pathways to ecological receptors. The control for the site is industrial land use, the site cannot be used for residential purposes. NMED hereby issues the Certificate of Completion for AOC 48-012 pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

If new information becomes available that indicates that these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites. Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

BRZ:nmd

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316
K. Rich, LANS, EP-CAP, MS M992

File: 2010 LANL, Certificates of Completion Upper Mortandad Aggregate Area (AOC 03-041, AOC 48-002(e), SWMU 48-007(a), SWMU 48-007(d), & SWMU 48-010).

09-09-10 07:53 RCVD

NAME *Michael Graham*
Z# *080185*
DATE *9/9/10*

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State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East-Building 1
Santa Fe, New Mexico 87505



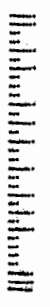
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Michael Graham
Associate Director Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS ~~14997~~
Los Alamos, NM 87545
A-150





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Lieutenant Governor

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RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 10, 2010

George J. Rael, Federal Projects Director
Environmental Projects Office
U.S. Department. of Energy / National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
UPPER LOS ALAMOS CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-056**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Sixteen SWMUs and Nine AOCs in the Upper Los Alamos Canyon Aggregate Area* (Request), dated June 15, 2010 and referenced by EP2010-01284. Results of the site investigations were presented in the *Investigation Report for the Upper Los Alamos Canyon Aggregate Area, Revision 1*, dated February 2010.

The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at following solid waste management units/ areas of concern (SWMUs/AOCs). The sites qualify for Corrective Action Complete without Controls status.

1. AOC 00-031(a) is the potentially contaminated soil beneath a former service station. Historical information and investigations conducted during 2008-2009 confirmed that the



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underground storage tanks (USTs) were no longer in place and the analytical results indicated that no residual contamination related to the tanks is present at the site. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 00-031(a). NMED hereby issues this Certificate of Completion for AOC 00-031(a) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

2. AOC 00-034(b) was a suspected pit identified from a 1946 aerial photograph. Based on interviews and examination of aerial photographs it was determined that the identified pit was actually a staging area for soil or tuff fill material used for building roads and home sites and it was never used for land disposal of waste. No documentation of the pit was found. Based on the information provided by the Permittees, NMED has determined that the site does not need further corrective action. NMED hereby issues this Certificate of Completion for AOC 00-034(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
3. SWMU 01-001(t), known as the eastern sanitary waste line, served several former buildings. Currently, the entire SWMU area is either landscaped or beneath streets, parking lots, and commercial buildings. Investigations were conducted in 1993 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-001(t). NMED hereby issues this Certificate of Completion for SWMU 01-001(t) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
4. SWMU 01-001(u) is a branch of the western sanitary waste line that served former building J-2. Based on field screening and soil sample data collected during the radiological survey conducted in 1974-76, the site was not considered contaminated. Currently, the entire SWMU area is beneath residential buildings, parking lots, and a wooded area behind residential buildings. No piping was encountered during the 1994 borehole drilling. Investigations were conducted in 1994 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-001(u). NMED hereby issues this Certificate of Completion for SWMU 01-001(u) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
5. AOC 01-003(c) was a surface disposal area located below the north rim of Los Alamos Canyon. During 1988 and 1996 site visits, no debris was located. During 1996 a few scattered pieces of nonhazardous debris were found near the site. Another site visit was conducted during 2008-2009, revealing that the area is bare with boulders; no debris was observed on the cliff face. The site does not exist anymore. NMED hereby issues this Certificate of Completion for AOC 01-003(c) pursuant to Section VII.E.6.b of the

Consent Order. Based on the information provided, no controls are necessary for this site.

6. AOC 01-006(g) is a storm drainage system that served several buildings and discharged to Los Alamos Canyon. The entire area where drainlines were located has been regraded and developed for residential use. Investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by AOC 01-006(g). NMED hereby issues this Certificate of Completion for AOC 01-006(g) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
7. SWMU 01-006(o) is a storm drainage system that served several buildings and discharged to Los Alamos Canyon. The entire area where drainlines were located has been completely regraded and rebuilt. Currently, the majority of the SWMU area is located beneath pavement and residential buildings. Investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-006(o). NMED hereby issues this Certificate of Completion for SWMU 01-006(o) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
8. SWMU 01-007(d) refers to four areas of suspected subsurface soil radiological contamination between buildings because of overflow of an industrial waste line in 1946. After the overflow all contaminated soil that could be removed was excavated and gravel was spread over the area. Investigations were conducted in 1994 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-007(d). NMED hereby issues this Certificate of Completion for SWMU 01-007(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
9. SWMU 01-007(e) refers to suspected subsurface soil radiological contamination within the footprint of the former Sigma Building. Contaminated soil was excavated from three small areas within the footprint of Sigma Building. Investigations were conducted in 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-007(e). NMED hereby issues this Certificate of Completion for SWMU 01-007(e) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
10. SWMU 03-009(j) is a surface disposal area located west of warehouse 03-142. Interviews with site workers indicated that the soil fill contained construction debris. The site was never used for management of hazardous waste or hazardous constituents. The

area is partially covered by a paved road/parking lot. Investigations were conducted in 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 03-009(j). NMED hereby issues this Certificate of Completion for SWMU 03-009(j) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

11. SWMU 32-001 is the location of a former incinerator that was removed in 1954. It received combustible wastes from a medical research facility; the ash from the incinerator was disposed off-site. Investigations were conducted in 1993, 1996, and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 32-001. NMED hereby issues this Certificate of Completion for SWMU 32-001 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
12. SWMU 41-001 is an inactive septic system that received sanitary waste from a guard house. Investigations were conducted in 1995, 2000, and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 41-001. NMED hereby issues this Certificate of Completion for SWMU 41-001 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

The following sites have been investigated and found to pose no unacceptable risk under current and proposed future land use. The sites require controls and are eligible for Corrective Action Complete status with Controls.

13. SWMU 01-001(b), septic tank 135, served two former buildings that were determined by the Laboratory to be free of contamination in 1964. A radiological survey was conducted in 1974-76 that indicated that the tank and drainlines were not contaminated. The tank and drainlines were removed during 1974-1976 survey. Further investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination, if any. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 01-001(b) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.
14. SWMU 01-001(c), septic tank 137, served former building D-2. The tank and its outfall were removed in 1975. Contaminated soil around the tank, drainlines and building D-2

were also removed in 1975. Investigations to define the nature and extent were conducted in 1992, 1993, and 2008-2009. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-001(c). However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. NMED hereby issues this Certificate of Completion for SWMU 01-001(c) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

15. SWMU 01-001(e), septic tank 139, served three former buildings. The tank became inactive in 1965 and was left in place. The tank was not located during the 1974-76 radiological survey and it was concluded that the tank had been previously removed. The entire SWMU area is under roads, residential buildings, driveways and sidewalks. Investigations were conducted in 1992 and 2008-2009 of the accessible areas. Evaluation of human health and ecological risk conducted on samples collected from accessible areas indicates that there is no potential unacceptable risk posed by SWMU 01-001(e). However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. Additionally, the Permittees must investigate the areas of potential contamination that are currently inaccessible due to the presence of structures when they become accessible. The controls for the site are to monitor the storm water discharge for potential transport of contamination from the site, and to prevent exposure of receptors to potential subsurface contamination. This latter control is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for SWMU 01-001(e) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned controls.
16. SWMU 01-003(e) was a surface disposal area located along the northern wall of Los Alamos Canyon. Concrete construction debris, piping, and other miscellaneous objects were observed at the site in the past. A major portion of this site is under fill material brought in by the private owner to extend the canyon rim farther south. Investigations were conducted in 1992 and 2008-2009 to define the nature and extent of contamination. Evaluation of human health and ecological risks indicate that there is no potential unacceptable risk posed by SWMU 01-003(e). However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. NMED hereby issues this Certificate of Completion for SWMU 01-003(e) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.
17. SWMU 01-006(d) is a drainline and associated outfall that served Building D-3 and discharged to hillside 137. Investigations were conducted in 1992, 1993, and 2008-2009

to define the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-006(d). However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute a control on the site by monitoring storm water discharge for potential transport of residual contamination. This is currently being accomplished under the NPDES "Stormwater" Permit. NMED hereby issues this Certificate of Completion for SWMU 01-006(d) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

18. SWMU 01-007(j) consists of twelve areas of suspected subsurface soil radiological contamination. These are small isolated contaminated areas in former Technical Area 1 discovered during a radiological survey conducted in 1976. Most of the contaminated soil was removed. These areas are developed with buildings, sidewalks, and roads. Investigations were conducted in 2008-2009 to define the nature and extent of contamination of accessible areas. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by SWMU 01-007(j). The Permittees must address the potential contamination beneath the structures when buildings and roadways are demolished or otherwise become accessible. The control for the site is to prevent exposure to receptors from potential subsurface contamination, which is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for SWMU 01-007(j) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.
19. AOC 01-007(k) was a suspected soil contamination area located near the U and W buildings. The area is now developed and contains structures and parking lots. Investigations were conducted in 1993 and 2008-2009 to define the nature and extent of contamination in accessible areas. Evaluation of human health and ecological risk indicates that there is no potential unacceptable risk posed by AOC 01-007(k). The Permittees must investigate the areas beneath the structures for potential contamination at the time of demolition of these structures. The control for the site is to prevent exposure to receptors from potential subsurface contamination, which is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for AOC 01-007(k) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.
20. AOC 03-008(a) is a firing site that was decommissioned in 1949. Review of engineering drawings and aerial photographs indicates that site would have been located near the intersection of Diamond Drive and Jemez Road and is no longer discernible. Currently the site is overlain by a parking garage. The Permittees must address the potential contamination beneath the site when the parking lot is decommissioned. The control for the site is to prevent exposure to receptors from potential subsurface contamination, which is accomplished so long as the existing structures remain intact. NMED hereby issues this Certificate of Completion for AOC 03-008(a) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

21. AOC 43-001(b2) is a storm-drain outfall. It was permitted under the Laboratory's NPDES permit and was removed from the permit on January 11, 1999. Investigations conducted in 2008-2009 defined the nature and extent of contamination. Evaluation of human health and ecological risk indicates that there are potential unacceptable risks under the residential scenario. However, there is no potential unacceptable risk posed under the recreational scenario. The current and reasonably foreseeable future land use for the site is recreational; the control is that the site cannot be used for residential purposes. NMED hereby issues this Certificate of Completion for SWMU 43-001(b2) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

Certificates of Completion are not issued for the following sites because the Permittees have not demonstrated that they do not pose unacceptable risk to human health or environment based on the current applicable standards.

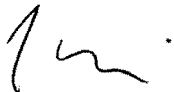
22. AOC 00-031(b), is the potentially contaminated soil associated with the Zia Company motor pool facility. Two USTs and associated piping were removed in 1994. Soil contaminated with petroleum hydrocarbons was removed and the excavation was backfilled and compacted. The Permittees must submit human health and ecological risk evaluations for NMED review and approval. The results of the risk evaluations may be included in the Upper Los Alamos Canyon Aggregate Area Phase II investigation report. NMED hereby denies the Certificate of Completion for the site.
23. AOC C-00-042 was a 2500-gallon steel waste-oil UST associated with the former automotive maintenance hanger at the Zia Company motor pool facility. The hanger was decommissioned and removed in 1962, and the land was subsequently transferred to Los Alamos County in 1967. The area was covered with fill material and asphalt. The tank and surrounding soil were removed in 1995 during VCA activities. The Permittees must conduct human health and risk evaluations using current standards. The results of the risk evaluations may be included in the Upper Los Alamos Canyon Aggregate Area Phase II investigation report. NMED hereby denies the Certificate of Completion for the site.
24. SWMU 01-002 is an outfall and associated industrial waste line that is located in the southern and western portion of Technical Area 1. Several former buildings with various processes discharged waste to the industrial waste lines. In 2000, the SWMU was split into two portions: the waste line portion of the SWMU was designated SWMU 01-002(a)-00, and the outfall was designated as SWMU 01-002(b)-00. For investigation purposes SWMU 01-002(b)-00 was included in the consolidated unit 45-001-00. The Permittees have completed corrective action at SWMU 01-002(a)-00. However, NMED will not issue the Certificate of Completion for the site until risk assessments are conducted by comparing contaminant concentrations to current standards for both sites. NMED hereby denies the certificate of completion for SWMU 01-002.

25. SWMU 01-007(1) is an area of potentially contaminated fill material located under Trinity Drive. The fill material is suspected of containing construction debris and other potentially radioactively contaminated soil from the Building D area. Investigations were conducted in 1993 and 1996. Currently, the site is overlain by Trinity Drive. The Permittees must conduct risk assessments using current standards and demonstrate that the site does not pose an unacceptable threat to human health or the environment. NMED hereby denies the Certificate of Completion for the site.

If new information becomes available that indicates that these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

BRZ:nmd

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316

File: 2010 LANL, Certificates of Completion, Upper Los Alamos Canyon Aggregate Area
SWMUs/AOCs

NAME Evelyn Sueso
Z# 080133
DATE 9/14/10

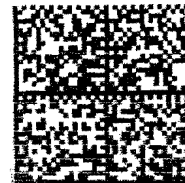
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State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Road Park Drive East-Building 1
Santa Fe, New Mexico 87505



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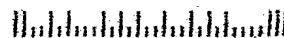
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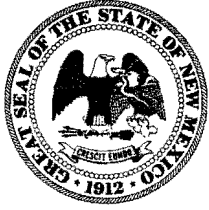
Michael Graham
Associate Director Environmental Programs
Los Alamos National Security, L.L.C.
P.O.Box 1663, MS M991
Los Alamos, NM 87545

A-150

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SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

**NEW MEXICO
ENVIRONMENT DEPARTMENT**

Hazardous Waste Bureau

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Santa Fe, New Mexico 87505-6303

Phone (505) 476-6000 Fax (505) 476-6030

www.nmenv.state.nm.us



DAVE MARTIN
Cabinet Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

January 14, 2011

George J. Rael, Assistant Manager
Environmental Projects Office
U.S. Department of Energy/National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham
Associate Director Environmental Programs
Los Alamos National Security, L.L.C.
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATE OF COMPLETION
PUEBLO CANYON AGGREGATE AREA
AREA OF CONCERN (AOC) 00-018(b)
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-096**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificate of Completion for Area of Concern 00-018(b), Bayo Wastewater Treatment Plant, Pueblo Canyon Aggregate Area*, dated December 10, 2010. Results of the associated facility demolition were presented in the *Demolition Documentation Report for the Bayo Canyon Wastewater Treatment Plant, Area of Concern 00-018(b)*, dated April 2010, and referenced by LA-UR-10-2076 and EP2010-0138.

AOC 00-018(b) is the former Bayo Canyon municipal wastewater treatment plant (WWTP) that was owned and operated by Los Alamos County. The Bayo WWTP was demolished by the County between October 2009 and February 2010. Although the evaluation of potential human health and ecological risks from the site indicated that AOC 00-018(b) does not pose an unacceptable risk to human health or to ecological receptors as presented and discussed in the July 2008 *Investigation Report for Pueblo Canyon Aggregate Area Revision 1* (LA-UR-08-4765 and EP2008-0391), NMED required the Permittees to observe and document demolition of the plant to ensure that contaminant releases had not occurred or were not present beneath site structures.

NMED has determined that the requirements of the Consent Order have been satisfied and the site qualifies for "Corrective Action Complete Without Controls" status. NMED hereby issues this certificate of completion for AOC 00-018(b) pursuant to Section VII.E.6.b of the Consent Order.

If, in the future, any additional information becomes available that indicates that the site may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at the site.

Please contact Daniel Comeau at (505) 476-6043, should you have any questions.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
D. Comeau, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
B. Coel-Roback, LANL, EP-CAP, MS M992
C. Rodriguez, DOE-LASO, MS A316

File: LANL Pueblo Canyon Aggregate Area, AOC 00-018(b), Certificate of Completion -- 2011

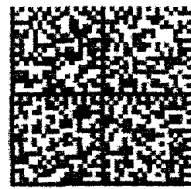
NAME [Signature]
Z# _____
DATE 1/18/2011

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State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East-Building 1
Santa Fe, New Mexico 87505



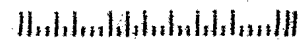
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Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991 **A150**
Los Alamos, NM 87545



11 JAN 18 PM 2:30:21



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Governor

JOHN A. SANCHEZ
Lieutenant Governor

NEW MEXICO
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DAVE MARTIN
Cabinet Secretary

RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 3, 2011

George J. Rael, Assistant Manager
Environmental Projects Office
Department of Energy/National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
MATERIAL DISPOSAL AREA V, TECHNICAL AREA 21
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-11-030**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Four Solid Waste Management Units and One Area of Concern at Material Disposal Area V, Technical Area 21* (Request), dated May 13, 2011 and referenced by EP2011-0138. Results of the site investigations were presented in the *Investigation Report for Consolidated Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21, Revision 1*, dated July 2007 and the *Supplemental Investigation Report for Consolidated Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21, Revision 1*, dated April 2008.

To determine extent of subsurface tritium contamination, the Permittees implemented the *Vadose Zone Subsurface Characterization and Vapor-Monitoring Well Installation Work Plan for Material Disposal Area V, Consolidated Unit 21-018(a)-99, Revision 1*, dated August 2009. Four rounds of quarterly sampling were conducted and periodic monitoring reports were submitted to

NMED in December 2009, March 2010, June 2010, and October 2010. The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following Solid Waste Management Units/Areas of Concern (SWMUs/AOCs).

SWMU 21-013(b) is the location of a former surface debris disposal site located immediately south of MDA V on the south-facing slope leading into BV Canyon. It is not known how long this site received building debris; however, it did not receive waste after 1994. SWMU 21-013(b) contained the external concrete piers, the concrete building foundations, and other building debris derived from the 1965 demolition of the laundry facility (building 21-20 [SWMU 21-018(b)]) and a waste treatment laboratory (building 21-33 [AOC 21-009]). The debris was removed in 2005 and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-013(b) pursuant to Section VII.E.6.b of the Consent Order.

SWMU 21-018(a), more commonly referred to as Material Disposal Area (MDA) V, is an approximately 1-acre site located immediately south of the former laundry facility [building 21-20; SWMU 21-018(b)]. The SWMU consists of three interconnected liquid waste absorption beds. MDA V was constructed to receive radioactive liquid wastewater from the laundry facility and was designed to enhance the infiltration of liquids into the tuff bedrock. The absorption beds were constructed in 1945 and operated until 1961. They remained on stand-by status until September 1963 when they were permanently removed from service. All absorption bed material and associated piping was removed and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. In addition, in the letter entitled *Extended Tritium Sampling at Material Disposal Area V*, dated February 15, 2011 and referenced by EP2011-0058, the Permittees commit to continue quarterly vapor monitoring at MDA V in connection with remedial actions currently in progress at MDA B. The need for continued vapor monitoring at MDA V will be reconsidered upon completion of the review of the final report detailing remedial actions at MDA B. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-018(a) pursuant to Section VII.E.6.b of the Consent Order.

SWMU 21-018(b) is a former laundry facility (building 21-20) located at the eastern end and south of DP Road, immediately west of the security fence that encloses other former TA-21 facilities. Operational from 1945 to 1961, the laundry facility was used to wash personal protective clothing and other reusable cloth items used in both research and production operations involving radioactive materials at TA-21. It is estimated that the laundry facility

generated approximately two million gallons of effluent annually, which was discharged to MDA V. The laundry facility was a wood-frame structure with both concrete slab and wood-framing-on-pier floors. The wood portions of the building were decommissioned and demolished in 1965 and taken to MDA G where the debris was burned. The concrete foundation and associated piping were bulldozed over the edge of DP Mesa onto the south-facing slope of BV Canyon. Investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. NMED hereby issues this Certificate of Completion for SWMU 21-018(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

SWMU 21-023(c) is a former septic system that consisted of a tank, inlet and outlet lines, and an outfall that served a waste treatment laboratory (building 21-33 [AOC 21-009]). The septic tank was located immediately west of the MDA V absorption beds and was constructed of reinforced concrete. The inlet and outlet lines were 4-inch vitrified clay pipe (VCP); the outlet line surfaced 40 feet southwest from the tank, approximately 30 feet from the canyon edge above BV Canyon. The outfall area extended south into BV Canyon. The waste treatment laboratory septic system was put into service in 1948. Wastewater was pumped from a sump in building 21-33 through the septic system. The tank was removed in 1965 and taken to MDA G. Investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-023(c) pursuant to Section VII.E.6.b of the Consent Order.

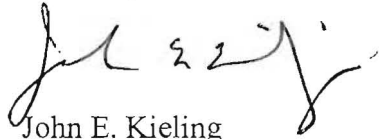
AOC 21-013(g) is located immediately south of MDA V on the south-facing slope leading into BV Canyon and has historically been described as a surface debris disposal site. It is not known how long the site received building debris; however, it did not receive waste after 1994. AOC 21-013(g) consisted of two discarded drainlines and miscellaneous building materials of unknown origin. The debris was removed in 2005 and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-013(g) pursuant to Section VII.E.6.b of the Consent Order.

If new information becomes available that indicates that these sites pose a potential risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites in the future.

Messrs. Rael and Graham
June 3, 2011
Page 4

Please contact Ben Wear at (505) 476-6041, if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "John E. Kieling". The signature is fluid and cursive, with the first name "John" being the most prominent.

John E. Kieling
Acting Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
W. Woodworth, DOE LASO, MS A316
A. Russell, DOE-LASO
B. Wedgeworth, EP-TA-21 Closure Project, MS M992
D. McInroy, EP-CAP, MS M992
W. Alexander, EP-BPS, MS M992

File: 2011 LANL, Certificates of Completion, MDA V, TA-21 SWMUs/AOCs

NAME Loreen Montoya
Z# 086365
DATE 6-8-11

CERTIFIED MAIL

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East-Building 1
Santa Fe, New Mexico 87505



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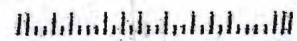
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Environmental Programs
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Los Alamos, NM 87545

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Governor

JOHN A. SANCHEZ
Lieutenant Governor

**NEW MEXICO
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Hazardous Waste Bureau

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DAVE MARTIN
Cabinet Secretary

RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

February 18, 2011

George J. Rael, Assistant Manager
Environmental Projects Office
Department of Energy/National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
UPPER SANDIA CANYON AGGREGATE AREA
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-10-099**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Eight Solid Waste Management Units and Sixteen Areas of Concern in the Upper Sandia Canyon Aggregate Area* (Request), dated December 6, 2010 and referenced by EP2010-0540. Results of the site investigations were presented in the *Investigation Report for the Upper Sandia Canyon Aggregate Area, Revision 1*, dated October 2010.

The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following Solid Waste Management Units/Areas of Concern (SWMUs/AOCs).

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1. **SWMU 03-003(c)** is the location of a former temporary equipment storage area for used dielectric fluids and capacitors adjacent to the former building 03-287 at TA-3. Building 03-287 was constructed between 1966 and 1968 and used for experiments until the mid-1980s. The sealed capacitors containing non-polychlorinated biphenyl (PCB) dielectric oil were temporarily stored in this area. Before the remodeling of building 03-287 in late 1992 and early 1993, a single surface sample was collected and analyzed for PCBs; no PCBs were detected. Samples of asphalt and fill collected in 2001 indicated the presence of PCBs. In 2003 and 2004, building 03-287 underwent decommissioning that included removal of the building and all of the asphalt paving and fill directly beneath the asphalt including location of SWMU 03-003(c). The entire area was graded and leveled, and approximately 10 ft of clean fill was placed over the entire site to accommodate construction of a new facility. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by SWMU 03-003(c). NMED hereby issues this Certificate of Completion for SWMU 03-003(c) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
2. **AOC 03-003(n)** is the location of a one-time PCBs spill in the salvage yard at Technical Area (TA)-3. With the exception of two small areas, most of the area is asphalt-paved. The salvage yard was used to store transformers, electrical equipment, batteries, and scrap metal. In 1977, a transformer ruptured and spilled approximately 10 gallons of PCB-contaminated oil into the soil. The salvage operation and material were moved to a building in 1993. Investigations conducted in 1994 and 2009 defined the nature and extent of contamination. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-003(n). NMED hereby issues this Certificate of Completion for AOC 03-003(n) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
3. **AOC 03-003(o)** is the location of a former capacitor bank that was used for experiments in former building 03-287 at TA-3. The sealed capacitors contained non-PCB dielectric fluid oil; each of the associated spark gap switches at the building 03-287 required approximately two quarts of non-PCB mineral oil for electrical insulation. The experiment was decommissioned in mid-1980s and all of the capacitors were removed from the building. Oil samples from spark gap switches and swipe samples from the surfaces within the building were collected and analyzed for PCBs. PCBs were detected at concentrations of less than two parts per million. In 2003 and 2004, building 03-287 underwent decommissioning that included removal of the building all the asphalt paving and fill directly beneath the asphalt including location of SWMU 03-003(c). The entire area was graded and leveled, and approximately 10 feet of clean fill was placed over the entire site to accommodate construction of a new facility. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-003(o). NMED hereby issues this Certificate of Completion for AOC 03-003(o).

pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

4. **SWMU 03-014(q)** is the treated effluent storage tank located at the TA-3 power plant. Between 1951 and 1985, the tank received and stored effluent from the former wastewater treatment plant, for use as cooling water for the power plant cooling towers. The effluent was pumped to the holding tank and treated with chromate to hinder bacterial growth. The tank currently receives treated effluent from the TA-46 Sanitary Wastewater Systems Consolidation Plant to use at the power plant. The effluent is treated in a wastewater neutralization tank to adjust pH before use and subsequent discharge to an outfall. Investigations were conducted in 2009 indicating that there is no potential unacceptable risk posed by SWMU 03-014(q) to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-014(q) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
5. **AOC 03-014(v)** is the location of a former floor drain within building 03-36, that was installed in 1953 and connected to the sanitary sewer line tied to the former waste water treatment plant at TA-3. Building 03-36 and the soil beneath its footprint were removed in 1999. The area was further excavated to a depth of approximately 15 ft below grade to accommodate the foundation of new building. The depth of the excavation was approximately 8 ft deeper than the two confirmation samples collected in 1999. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-014(v). NMED hereby issues this Certificate of Completion for AOC 03-014(v) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
6. **AOC 03-027** is comprised of two former concrete-block lined lift wells located beneath the hydraulic lifts at a former garage (building 03-36) at TA-3. The lift wells collected floor wash water that contained residual oil and rinse water containing nitric acid. The garage was removed in 1999 for the construction of a new building. Building 03-36 and the soil beneath its footprint were removed in 1999. After demolition of the building in 1999, nine fill and tuff samples were collected from six locations within the footprint of the former lift wells. The area was further excavated to a depth of approximately 15 ft below grade to accommodate the foundation of new building. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by AOC 03-027. NMED hereby issues this Certificate of Completion for AOC 03-027 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
7. **SWMU 03-028** is a former 12 ft x 15 ft x 6 ft deep concrete holding pond that was located at the northeast corner of the former asphalt batch plant. The site was used as a settling pond for mineral dust and particulates from gravel captured by scrubber water from the asphalt batch plant. Sediment from the bottom of the holding pond was

periodically removed and disposed of in a former landfill located southeast of the plant. Water from the pond was recycled to the scrubber system and replenished with potable water. During decommissioning of the asphalt batch plant in 2003, the pond sediment and water was removed from the pond, the pond filled with clean soil and gravel, and the surface of the site paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-028 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

8. **SWMU 03-036(a)** is the location of two former asphalt emulsion product tanks at the former TA-3 asphalt batch plant. The tanks were 25 to 30 ft in diameter and 8 to 12 ft high. The tanks were located within a soil-bermed secondary containment area. Spills that occurred from plant operations were contained within the bermed area. Both tanks were removed and disposed of at the Los Alamos County Landfill in 1988 or 1989, as was soil around and beneath the tanks. The surface of the site was paved with asphalt for use as a parking lot in 2003. Results of investigations conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-036(a) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
9. **AOC 03-036(b)** is a former location of two 25- to 50-gallon aboveground storage tanks located at the former asphalt batch plant at TA-3. The tanks were surrounded by 3-ft soil berm and stored kerosene and No. 2 diesel fuel. The use of the tanks started in 1960. In 2002, the tanks, the soil berm, and stained soils were removed during decommissioning of the asphalt batch plant. Results of the investigation conducted in 2003 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-036(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
10. **SWMU 03-036(c)** is the location of two former asphalt emulsion storage tanks at the former TA-3 asphalt batch plant. The tanks were removed and disposed of at the Los Alamos County Landfill. The inspection of tanks indicated that the tanks had not leaked. The asphalt batch plant was decommissioned in 2002. In 2003, the site was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-036(c) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
11. **SWMU 03-036(d)** is the location of two former asphalt emulsion storage tanks (former structures 03-75 and 03-76) at the former TA-3 asphalt batch plant. The tanks were

removed and disposed of at the Los Alamos County landfill. The inspection of tanks indicated that the tanks had not leaked. The asphalt batch plant was decommissioned in 2002. In 2003, the site was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-036(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

12. **AOC 03-038(c)** is a 2-in cast-iron drainline that formerly carried rinse solution from a copper electroplating bath to an industrial waste line. Plating and acid solutions were washed of the circuit boards and down the drain. The electroplating bath initially operated in the 1960s and ceased operations in the early 1970s. The drainpipe was cut and capped inside the wall to make it inaccessible. Results of an investigation conducted in 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-038(c) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
13. **AOC 03-043(a)** is a former 20,000-gal aboveground storage tank, installed in 1948 at the former asphalt batch station at TA-3. The tank was removed in 1963 and disposed of at the Los Alamos County Landfill, and replaced by another storage tank (AOC 03-043(f)). In 2003, the surface was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(a) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
14. **AOC 03-043(b)** is the location of a former 10,000-gallon aboveground asphalt emulsion storage tank, installed in 1948 at the former TA-3 asphalt batch plant. In 1980, the tank was removed and disposed of at the Los Alamos County Landfill, as was stained soil observed beneath and around the tank. The asphalt batch plant was decommissioned in 2002. In 2003, the surface of the site was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
15. **AOC 03-043(d)** is the former aboveground asphalt storage tank (former structure 03-76) at the former asphalt batch plant at TA-3. The tank was removed and disposed of at the Los Alamos County Landfill in 1988 or 1989. The surface of the site was paved with asphalt for use as a parking lot in 2003. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-

043(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

16. **AOC 03-043(f)** is the location of a former aboveground storage tank (former structure number 03-178) at the former asphalt batch station at TA-3. The tank was removed, disassembled, disposed of at Los Alamos County Landfill. In 2003, the surface was paved with asphalt for use as a parking lot. The potential soil contamination associated with the former tank was included in the investigations conducted at SWMUs 03-036(c) and 03-036(d). Results of the investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(f) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
17. **AOC 03-043(g)** is the location of a former aboveground asphalt storage tank (former structure number 03-335) at the former asphalt batch station at TA-3. The tank was removed and disposed of at the Los Alamos County Landfill. In 2003, the surface was paved with asphalt for use as a parking lot. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(g) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
18. **AOC 03-043(h)** is the former aboveground asphalt storage tank (former structure 03-75) at the former asphalt batch plant at TA-3. The tank was removed and disposed of at the Los Alamos County Landfill in 1988-1989. The surface of the site was paved with asphalt for use as a parking lot in 2003. Results of an investigation conducted in 2003 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 03-043(h) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
19. **AOC 03-047(d)** is the location of a former container storage area at TA-3. The storage area consisted of an asphalt pad where drums of new motor oil, used oil, and Stoddard solvent were stored from 1954-1989. The asphalt pad was removed when the area was decommissioned in 1989. Investigations conducted in 1995 indicated that the residual contamination posed no unacceptable risk to human health and ecological receptors. In 2002, before the installation of a concrete pad, soil was excavated within the boundary of AOC 03-047(d). Two days later, a waterline ruptured at the TA-3 power plant and eroded all remaining soil/fill, including the 1995 sampling locations. The location of the AOC 03-047(d) was backfilled with more than five ft of clean fill to bring the site back up to grade. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed by the site. NMED hereby issues this Certificate of

Completion for AOC 03-047(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

20. **SWMU 03-056(l)** is the location of a former outdoor storage area at TA-3. Containers of disposable clothing contaminated with beryllium powder and carboys used to store beryllium powder in water were reportedly staged at this location before disposal. There are no documented releases from the drums or carboys to the environment. Results of the investigations conducted in 2003 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for SWMU 03-056(l) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
21. **AOC C-03-016** is a former oil cleanout bin that was located north of the former asphalt batch plant at TA-3. The bin was approximately 4 ft x 16 ft x 3 ft deep, had a hinged lid, and was buried with the top flush to the ground surface. The bin was installed in the mid-1970s and contained used asphalt emulsion oil. In the late 1980s, the stained area surrounding the bin was removed. Clean sand and gravel was placed around the bin. The bin and stained soils around the bin were removed in the late 1990s. In 2003, the surface of the site was paved with asphalt for use as a parking lot. Results of investigations conducted in 2003 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC C-03-016 pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
22. **AOC 60-004(b)** is a former storage area at TA-60 for 12 containers of diesel sludge removed from underground tanks at the TA-3 power plant. The containers were staged at this area in 1988. Results of investigations conducted in 1994 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 60-004(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.
23. **AOC 60-004(d)** is the location of a former storage area at TA-60. The containers were staged at this area in 1988. The area was formerly used to temporarily stage drums containing fluids removed from underground storage tanks. Decommissioned underground storage tanks were also dismantled at this location. The storage area was first used in 1979. Results of investigations conducted in 1994 and 2009 indicate that there is no potential unacceptable risk posed by the site to human health or ecological receptors. NMED hereby issues this Certificate of Completion for AOC 60-004(d) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

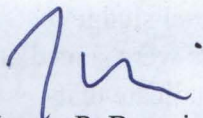
The following site is eligible for Corrective Action Complete with Controls.

24. **SWMU 03-056(c)** is an inactive outdoor transformer storage area located at TA-3. The area was used to store electrical equipment, capacitors, and transformers with PCB-containing dielectric oils. Waste solvents used to clean electric equipment were also stored at this location. Investigations and remedial actions were conducted at the site in 1994, 1995, 2000, and 2001. The nature and extent of contamination was defined and confirmatory sample results indicated that the site met the Environmental Protection Agency's PCB cleanup criterion of less than 1 part per million. Evaluation of human health and ecological risks indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must institute and maintain a control on the site by monitoring storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 03-056(c) pursuant to Section VII.E.6.b of the Consent Order, subject to the aforementioned control.

If new information becomes available that indicates that these sites may pose a risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites.

Please contact Neelam Dhawan at (505) 476-6042, if you have any questions.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

cc: J. Kieling, NMED HWB
D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
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L. King, EPA 6PD-N
C. Rodriguez, DOE LASO, MS A316
K. Rich, LANS, EP-CAP, MS M992

File: 2011 LANL, Certificates of Completion, Upper Sandia Canyon Aggregate Area
SWMUs/AOCs

NAME J. Aileen Montoya
Z# 086365
DATE 2-23-11

New Mexico Environment Department
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Bldg. 1
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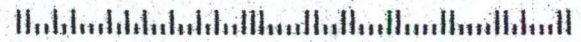
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DAVE MARTIN
Cabinet Secretary

RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

June 3, 2011

George J. Rael, Assistant Manager
Environmental Projects Office
Department of Energy/National
Nuclear Security Administration
Los Alamos Site Office
3747 West Jemez Road, MS A316
Los Alamos, NM 87544

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: CERTIFICATES OF COMPLETION
MATERIAL DISPOSAL AREA V, TECHNICAL AREA 21
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-11-030**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Request for Certificates of Completion for Four Solid Waste Management Units and One Area of Concern at Material Disposal Area V, Technical Area 21* (Request), dated May 13, 2011 and referenced by EP2011-0138. Results of the site investigations were presented in the *Investigation Report for Consolidated Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21, Revision 1*, dated July 2007 and the *Supplemental Investigation Report for Consolidated Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21, Revision 1*, dated April 2008.

To determine extent of subsurface tritium contamination, the Permittees implemented the *Vadose Zone Subsurface Characterization and Vapor-Monitoring Well Installation Work Plan for Material Disposal Area V, Consolidated Unit 21-018(a)-99, Revision 1*, dated August 2009. Four rounds of quarterly sampling were conducted and periodic monitoring reports were submitted to

NMED in December 2009, March 2010, June 2010, and October 2010. The Permittees have satisfied the requirements of the March 1, 2005 Consent Order for corrective action at the following Solid Waste Management Units/Areas of Concern (SWMUs/AOCs).

SWMU 21-013(b) is the location of a former surface debris disposal site located immediately south of MDA V on the south-facing slope leading into BV Canyon. It is not known how long this site received building debris; however, it did not receive waste after 1994. SWMU 21-013(b) contained the external concrete piers, the concrete building foundations, and other building debris derived from the 1965 demolition of the laundry facility (building 21-20 [SWMU 21-018(b)]) and a waste treatment laboratory (building 21-33 [AOC 21-009]). The debris was removed in 2005 and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-013(b) pursuant to Section VII.E.6.b of the Consent Order.

SWMU 21-018(a), more commonly referred to as Material Disposal Area (MDA) V, is an approximately 1-acre site located immediately south of the former laundry facility [building 21-20; SWMU 21-018(b)]. The SWMU consists of three interconnected liquid waste absorption beds. MDA V was constructed to receive radioactive liquid wastewater from the laundry facility and was designed to enhance the infiltration of liquids into the tuff bedrock. The absorption beds were constructed in 1945 and operated until 1961. They remained on stand-by status until September 1963 when they were permanently removed from service. All absorption bed material and associated piping was removed and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. In addition, in the letter entitled *Extended Tritium Sampling at Material Disposal Area V*, dated February 15, 2011 and referenced by EP2011-0058, the Permittees commit to continue quarterly vapor monitoring at MDA V in connection with remedial actions currently in progress at MDA B. The need for continued vapor monitoring at MDA V will be reconsidered upon completion of the review of the final report detailing remedial actions at MDA B. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-018(a) pursuant to Section VII.E.6.b of the Consent Order.

SWMU 21-018(b) is a former laundry facility (building 21-20) located at the eastern end and south of DP Road, immediately west of the security fence that encloses other former TA-21 facilities. Operational from 1945 to 1961, the laundry facility was used to wash personal protective clothing and other reusable cloth items used in both research and production operations involving radioactive materials at TA-21. It is estimated that the laundry facility

generated approximately two million gallons of effluent annually, which was discharged to MDA V. The laundry facility was a wood-frame structure with both concrete slab and wood-framing-on-pier floors. The wood portions of the building were decommissioned and demolished in 1965 and taken to MDA G where the debris was burned. The concrete foundation and associated piping were bulldozed over the edge of DP Mesa onto the south-facing slope of BV Canyon. Investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. NMED hereby issues this Certificate of Completion for SWMU 21-018(b) pursuant to Section VII.E.6.b of the Consent Order. Based on the information provided, no controls are necessary for this site.

SWMU 21-023(c) is a former septic system that consisted of a tank, inlet and outlet lines, and an outfall that served a waste treatment laboratory (building 21-33 [AOC 21-009]). The septic tank was located immediately west of the MDA V absorption beds and was constructed of reinforced concrete. The inlet and outlet lines were 4-inch vitrified clay pipe (VCP); the outlet line surfaced 40 feet southwest from the tank, approximately 30 feet from the canyon edge above BV Canyon. The outfall area extended south into BV Canyon. The waste treatment laboratory septic system was put into service in 1948. Wastewater was pumped from a sump in building 21-33 through the septic system. The tank was removed in 1965 and taken to MDA G. Investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-023(c) pursuant to Section VII.E.6.b of the Consent Order.

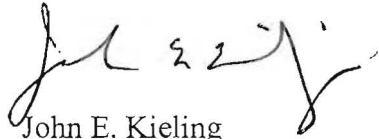
AOC 21-013(g) is located immediately south of MDA V on the south-facing slope leading into BV Canyon and has historically been described as a surface debris disposal site. It is not known how long the site received building debris; however, it did not receive waste after 1994. AOC 21-013(g) consisted of two discarded drainlines and miscellaneous building materials of unknown origin. The debris was removed in 2005 and investigations were conducted between 2005 and 2007 to define the nature and extent of contamination. Evaluation of both human health and ecological risk indicates that there is no potential unacceptable risk posed at the site. However, storm water discharge may mobilize residual contamination from the site. The Permittees must monitor storm water discharge for potential off-site transport of residual contamination. This is currently being accomplished under the National Pollutant Discharge Elimination System (NPDES) "Stormwater" Permit. NMED hereby issues this Certificate of Completion for Corrective Action Complete with Controls for SWMU 21-013(g) pursuant to Section VII.E.6.b of the Consent Order.

If new information becomes available that indicates that these sites pose a potential risk to human health or the environment, NMED may require the Permittees to conduct additional corrective action at these sites in the future.

Messrs. Rael and Graham
June 3, 2011
Page 4

Please contact Ben Wear at (505) 476-6041, if you have any questions.

Sincerely,



John E. Kieling
Acting Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
S. Yanicak, NMED DOE OB, MS J993
T. Skibitski, NMED DOE OB
L. King, EPA 6PD-N
W. Woodworth, DOE LASO, MS A316
A. Russell, DOE-LASO
B. Wedgeworth, EP-TA-21 Closure Project, MS M992
D. McInroy, EP-CAP, MS M992
W. Alexander, EP-BPS, MS M992

File: 2011 LANL, Certificates of Completion, MDA V, TA-21 SWMUs/AOCs

NAME Loreen Montoya
Z# 086365
DATE 6-8-11

CERTIFIED MAIL

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2905 Rodeo Park Drive East-Building 1
Santa Fe, New Mexico 87505



7010 1670 0000 8697 7001



Hasler

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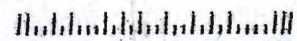
06/07/2011

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Environmental Programs
Los Alamos National Security, LLC
P.O.Box 1663, ~~MS M991~~
Los Alamos, NM 87545

MS-A-150



NPDES Permit No. NM0030759
Individual Permit Annual Report
January 1 – December 31, 2011

ATTACHMENT 2

Supporting Documentation for Analysis of PCB Congeners
using EPA Method 1668

LA-UR-12-10341

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ATTACHMENT 2

Crosswalk of SMAs, Sample IDs and PCB Congener Analytical Request Numbers

Site Monitoring Area	Station Number	Sample ID	Request Number
2M-SMA-2	SS103219	WT_IPPAJ-11-11230	11-3600
2M-SMA-2.2	SS093214	WT_IPPAJ-11-11149	11-3252
2M-SMA-2.2	SS093214	WT_IPPAJ-11-11150	11-3600
ACID-SMA-1.05	SS090102	WT_IPLAP-11-10516	11-3302
ACID-SMA-2	SS100105	WT_IPLAP-11-10548	11-3342
CDB-SMA-0.25	SS091311	WT_IPMOR-11-10941	11-3537
CDB-SMA-1	SS2185	WT_IPMOR-11-10857	11-3537
CDV-SMA-2.41	SS090407	WT_IPWAT-11-11281	11-3424
CHQ-SMA-1.02	SS090613	WT_IPCHA-11-11539	11-3422
LA-SMA-1	SS081003	WT_IPLAP-11-10368	11-3342
LA-SMA-4.1	SS101035	WT_IPLAP-11-10536	11-3394
LA-SMA-4.1	SS101035	WT_IPLAP-11-10537	11-3603
LA-SMA-5.02	SS091013	WT_IPLAP-11-10480	11-3094
LA-SMA-5.02	SS091013	WT_IPLAP-11-10481	11-3394
M-SMA-1	SS198	WT_IPMOR-11-10861	11-3343
M-SMA-1	SS198	WT_IPMOR-11-10862	11-3605
M-SMA-10.3	SS20025	WT_IPMOR-11-11029	11-3012
M-SMA-10.3	SS20025	WT_IPMOR-11-11030	11-3343
M-SMA-4	SS1987	WT_IPMOR-11-10901	11-3343
PJ-SMA-20	SS092332	WT_IPPAJ-11-11181	11-3090
PJ-SMA-20	SS092332	WT_IPPAJ-11-11182	11-3414
PT-SMA-0.5	SS26565	WT_IPWAT-11-11339	11-3536
S-SMA-0.25	SS091601	WT_IPSAN-11-10619	11-3248
S-SMA-1.1	SS101622	WT_IPSAN-11-10658	11-3186
S-SMA-1.1	SS101622	WT_IPSAN-11-10659	11-3607
S-SMA-2	SS101626	WT_IPSAN-11-10674	11-3052
S-SMA-2	SS101626	WT_IPSAN-11-10675	11-3248
S-SMA-2.01	SS091602	WT_IPSAN-11-10622	11-3089
S-SMA-2.01	SS091602	WT_IPSAN-11-10623	11-3572
S-SMA-3.53	SS091605	WT_IPSAN-11-10634	11-3186
S-SMA-3.6	SS12255	WT_IPSAN-11-10682	11-2992
S-SMA-3.6	SS12255	WT_IPSAN-11-10683	11-3248
S-SMA-4.1	SS101623	WT_IPSAN-11-10662	11-3089
S-SMA-4.1	SS101623	WT_IPSAN-11-10663	11-3572
S-SMA-6	SS1248	WT_IPSAN-11-10690	11-2998
S-SMA-6	SS1248	WT_IPSAN-11-10691	11-3420
STRM-SMA-5.05	SS093002	WT_IPPAJ-11-11157	11-3414
T-SMA-1	SS093713	WT_IPMOR-11-10985	11-3012
T-SMA-1	SS093713	WT_IPMOR-11-10986	11-3250

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Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.51	0.953	3.41	
3-Chlorobiphenyl (2)	pg/L	1.7	1.1	3.9	
4-Chlorobiphenyl (3)	pg/L	1.45	0.874	3.2	
2,2'-Dichlorobiphenyl (4)	pg/L	4.77	3.22	11.2	
2,3-Dichlorobiphenyl (5)	pg/L	2.96	1.82	6.6	
2,3'-Dichlorobiphenyl (6)	pg/L	2.59	1.6	5.79	
2,4-Dichlorobiphenyl (7)	pg/L	2.48	1.53	5.54	
2,4'-Dichlorobiphenyl (8)	pg/L	2.57	1.5	5.56	
2,5-Dichlorobiphenyl (9)	pg/L	2.67	1.69	6.06	
2,6-Dichlorobiphenyl (10)	pg/L	2.55	2.03	6.6	
3,3'-Dichlorobiphenyl (11)	pg/L	3.32	1.83	6.98	
3,4-Dichlorobiphenyl (12)	pg/L	4.48	2.4	9.27	
3,5-Dichlorobiphenyl (14)	pg/L	2.99	1.69	6.37	
4,4'-Dichlorobiphenyl (15)	pg/L	3.05	1.94	6.93	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.75	1.29	4.32	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.74	1.26	4.27	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.33	0.886	3.1	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.65	1.14	3.94	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.2	0.745	2.69	
2,3,4-Trichlorobiphenyl (21)	pg/L	1.29	0.674	2.64	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1.15	0.723	2.59	
2,3,5-Trichlorobiphenyl (23)	pg/L	1.06	0.687	2.43	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.01	0.696	2.4	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.987	0.608	2.2	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.41	0.727	2.87	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.03	0.745	2.52	
2,4',5-Trichlorobiphenyl (31)	pg/L	1.57	1.62	4.81	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.982	0.68	2.34	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.1	0.729	2.55	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.58	0.892	3.36	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.33	0.737	2.8	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.32	0.83	2.98	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.43	0.812	3.06	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.3	0.731	2.76	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.01	1.29	4.59	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.26	1.54	5.33	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.03	1.35	4.74	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.52	1.85	6.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.27	1.27	4.8	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.02	0.468	1.96	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.08	0.691	2.46	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.89	1.26	4.41	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.8	1.07	3.95	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.887	0.456	1.8	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.86	1.29	4.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.618	0.372	1.36	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.45	0.885	3.22	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.69	0.936	3.56	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.38	0.835	3.05	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.34	0.789	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.86	0.996	3.85	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.48	0.801	3.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	2.26	1.07	4.39	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.35	0.792	2.93	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.46	0.927	3.31	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.4	0.837	3.08	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.55	0.919	3.38	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.36	0.831	3.02	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.28	0.776	2.83	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.4	0.922	3.24	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.56	0.968	3.49	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.6	0.927	3.45	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.36	0.751	2.86	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.55	0.895	3.34	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.47	0.907	3.28	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.87	0.989	3.85	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.81	0.989	3.79	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	2.09	1.18	4.45	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.85	0.836	3.52	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	2.66	2.7	8.06	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	2.11	0.971	4.05	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.65	0.929	3.51	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.78	0.818	3.42	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.59	0.889	3.37	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.61	0.943	3.49	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.57	0.924	3.41	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.879	3.25	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.6	0.41	1.42	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	2.01	0.927	3.87	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.34	0.77	2.88	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.38	0.804	2.99	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.615	0.367	1.35	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.55	0.92	3.39	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.47	0.909	3.29	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.59	0.917	3.42	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.52	0.859	3.23	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.79	3.99	13.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.16	0.623	2.4	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.42	0.788	3	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.58	0.951	3.48	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.53	0.949	3.43	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	1.16	0.625	2.41	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.13	0.639	2.41	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.54	0.898	3.33	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.42	0.923	3.27	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.73	1.03	3.79	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.52	0.913	3.35	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.8	1.31	4.42	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	2.07	1.38	4.83	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	2.3	1.76	5.82	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	2.25	1.7	5.65	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	2.16	1.63	5.41	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	2.15	1.68	5.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	2.36	1.86	6.08	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.32	0.687	2.7	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.784	0.543	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.95	1.43	4.81	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	2.13	1.55	5.22	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	2.48	1.93	6.33	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	2.28	1.76	5.8	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	2.09	1.65	5.38	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.02	0.687	2.4	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.771	0.532	1.84	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	2.34	1.59	5.51	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	2.73	2.51	7.76	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1	0.649	2.3	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.74	0.517	1.77	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.727	0.543	1.81	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	2.25	1.77	5.79	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.03	0.752	2.53	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.648	0.399	1.45	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.37	0.799	2.97	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.66	1.27	4.19	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.01	0.636	2.28	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.57	1.25	4.07	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.53	1.23	4	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.951	0.605	2.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.9	1.47	4.84	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.67	1.27	4.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.15	0.653	2.46	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.16	0.598	2.36	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.34	0.731	2.8	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.62	0.794	3.21	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.33	0.806	2.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.48	0.935	3.35	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.06	0.816	2.69	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.847	0.659	2.16	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.35	0.836	3.02	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.13	0.878	2.89	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.835	0.659	2.15	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.72	1.07	3.85	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.2	0.721	2.64	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.27	0.983	3.23	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.47	0.636	2.74	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.78	0.618	2.02	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.832	0.653	2.14	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	1.02	0.734	2.49	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.78	0.584	1.95	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.933	0.495	1.92	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	1.02	0.543	2.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.988	0.548	2.09	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1	0.579	2.16	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.995	0.573	2.14	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.08	0.611	2.31	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.939	0.645	2.23	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.89	0.436	1.76	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.14	0.59	2.32	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.741	0.528	1.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.777	0.527	1.83	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.866	0.591	2.05	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.74	0.522	1.78	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.895	0.512	1.92	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.14	0.619	2.38	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.923	0.542	2.01	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.934	0.559	2.05	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.941	0.511	1.96	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-2992
 Lab Sample ID: 2593001
 Client Sample: 1668A Water (PQL)
 Client ID: WT_IPSAN-11-10682
 Batch ID: 19326
 Run Date: 08/14/2011 01:02
 Data File: c11aug11a_7-5
 Prep Batch: 19304
 Prep Date: 10-AUG-11

Client: LANL001
 Date Collected: 07/28/2011 12:00
 Date Received: 08/03/2011 09:50
 Method: EPA Method 1668A
 Analyst: CLP
 Prep Method: SW846 3520C
 Aliquot: 729.7 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	27.4	27.4	pg/L	27.4
2051-61-8	PCB-2	U	27.4	27.4	pg/L	27.4
2051-62-9	PCB-3	U	27.4	27.4	pg/L	27.4
13029-08-8	PCB-4	U	137	137	pg/L	137
16605-91-7	PCB-5	U	27.4	27.4	pg/L	27.4
25569-80-6	PCB-6	U	27.4	27.4	pg/L	27.4
33284-50-3	PCB-7	U	27.4	27.4	pg/L	27.4
34883-43-7	PCB-8	U	27.4	27.4	pg/L	27.4
34883-39-1	PCB-9	U	27.4	27.4	pg/L	27.4
33146-45-1	PCB-10	U	137	137	pg/L	137
2050-67-1	PCB-11		398	391	pg/L	137
2974-92-7	PCB-13/12	CU	54.8	54.8	pg/L	54.8
34883-41-5	PCB-14	U	27.4	27.4	pg/L	27.4
2050-68-2	PCB-15		36.7	29.8	pg/L	27.4
38444-78-9	PCB-16	U	137	137	pg/L	137
37680-66-3	PCB-17	U	27.4	27.4	pg/L	27.4
37680-65-2	PCB-18/30	CU	54.8	54.8	pg/L	54.8
38444-73-4	PCB-19	U	27.4	27.4	pg/L	27.4
38444-84-7	PCB-20/28	C	87.9	85.2	pg/L	54.8
55702-46-0	PCB-21/33	CU	54.8	54.8	pg/L	54.8
38444-85-8	PCB-22		37.8	35.2	pg/L	27.4
55720-44-0	PCB-23	U	27.4	27.4	pg/L	27.4
55702-45-9	PCB-24	U	27.4	27.4	pg/L	27.4
55712-37-3	PCB-25	U	27.4	27.4	pg/L	27.4
38444-81-4	PCB-26/29	CU	54.8	54.8	pg/L	54.8
38444-76-7	PCB-27	U	27.4	27.4	pg/L	27.4
16606-02-3	PCB-31		61.0	56.2	pg/L	27.4
38444-77-8	PCB-32	U	27.4	27.4	pg/L	27.4
37680-68-5	PCB-34	U	27.4	27.4	pg/L	27.4
37680-69-6	PCB-35	U	27.4	27.4	pg/L	27.4
38444-87-0	PCB-36	U	27.4	27.4	pg/L	27.4
38444-90-5	PCB-37		46.0	43	pg/L	27.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-2992
Lab Sample ID: 2593001
Client Sample: 1668A Water (PQL)
Client ID: WT_IPSAN-11-10682
Batch ID: 19326
Run Date: 08/14/2011 01:02
Data File: c11aug11a_7-5
Prep Batch: 19304
Prep Date: 10-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/03/2011 09:50

Method: EPA Method 1668A
Analyst: CLP

Prep Method: SW846 3520C
Aliquot: 729.7 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	27.4	27.4	pg/L	27.4
38444-88-1	PCB-39	U	27.4	27.4	pg/L	27.4
38444-93-8	PCB-40/71	CU	57.6	54.8	pg/L	54.8
52663-59-9	PCB-41	U	137	137	pg/L	137
36559-22-5	PCB-42	U	27.4	27.4	pg/L	27.4
70362-46-8	PCB-43	U	27.4	27.4	pg/L	27.4
41464-39-5	PCB-44/65/47	CU	82.2	82.2	pg/L	82.2
70362-45-7	PCB-45/51	CU	54.8	54.8	pg/L	54.8
41464-47-5	PCB-46	U	27.4	27.4	pg/L	27.4
70362-47-9	PCB-48	U	27.4	27.4	pg/L	27.4
41464-40-8	PCB-69/49	C	68.7	64.8	pg/L	54.8
62796-65-0	PCB-50/53	CU	54.8	54.8	pg/L	54.8
35693-99-3	PCB-52		274	269	pg/L	27.4
15968-05-5	PCB-54	U	27.4	27.4	pg/L	27.4
74338-24-2	PCB-55	U	27.4	27.4	pg/L	27.4
41464-43-1	PCB-56		100	96.7	pg/L	27.4
70424-67-8	PCB-57	U	27.4	27.4	pg/L	27.4
41464-49-7	PCB-58	U	27.4	27.4	pg/L	27.4
74472-33-6	PCB-59/62/75	CU	82.2	82.2	pg/L	82.2
33025-41-1	PCB-60		42.3	39.2	pg/L	27.4
33284-53-6	PCB-61/76/70/74	C	493	489	pg/L	110
74472-34-7	PCB-63	U	27.4	27.4	pg/L	27.4
52663-58-8	PCB-64	U	27.4	27.4	pg/L	27.4
32598-10-0	PCB-66		162	159	pg/L	27.4
73575-53-8	PCB-67	U	27.4	27.4	pg/L	27.4
73575-52-7	PCB-68	U	27.4	27.4	pg/L	27.4
41464-42-0	PCB-72	U	27.4	27.4	pg/L	27.4
74338-23-1	PCB-73	U	27.4	27.4	pg/L	27.4
32598-13-3	PCB-77		80.0	76.5	pg/L	27.4
70362-49-1	PCB-78	U	27.4	27.4	pg/L	27.4
41464-48-6	PCB-79	U	27.4	27.4	pg/L	27.4
33284-52-5	PCB-80	U	27.4	27.4	pg/L	27.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-2992
 Lab Sample ID: 2593001
 Client Sample: 1668A Water (PQL)
 Client ID: WT_IPSAN-11-10682
 Batch ID: 19326
 Run Date: 08/14/2011 01:02
 Data File: c11aug11a_7-5
 Prep Batch: 19304
 Prep Date: 10-AUG-11

Client: LANL001
 Date Collected: 07/28/2011 12:00
 Date Received: 08/03/2011 09:50
 Method: EPA Method 1668A
 Analyst: CLP
 Prep Method: SW846 3520C
 Aliquot: 729.7 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	27.4	27.4	pg/L	27.4
52663-62-4	PCB-82		84.0	80.1	pg/L	27.4
60145-20-2	PCB-83		38.4	34.6	pg/L	27.4
52663-60-2	PCB-84		194	190	pg/L	27.4
65510-45-4	PCB-117/116/85	C	109	105	pg/L	82.2
55312-69-1	PCB-86/87/97/109/119/125	C	539	531	pg/L	164
55215-17-3	PCB-88/91	C	77.2	73.1	pg/L	54.8
73575-57-2	PCB-89	U	27.4	27.4	pg/L	27.4
68194-07-0	PCB-113/90/101	C	844	841	pg/L	82.2
52663-61-3	PCB-92		122	119	pg/L	27.4
73575-56-1	PCB-93/100	CU	54.8	54.8	pg/L	54.8
73575-55-0	PCB-94	U	27.4	27.4	pg/L	27.4
38379-99-6	PCB-95		542	539	pg/L	27.4
73575-54-9	PCB-96	U	27.4	27.4	pg/L	27.4
60233-25-2	PCB-102/98	CU	54.8	54.8	pg/L	54.8
38380-01-7	PCB-99		220	217	pg/L	137
60145-21-3	PCB-103	U	27.4	27.4	pg/L	27.4
56558-16-8	PCB-104	U	27.4	27.4	pg/L	27.4
32598-14-4	PCB-105		340	337	pg/L	137
70424-69-0	PCB-106	U	27.4	27.4	pg/L	27.4
70424-68-9	PCB-107		78.5	75.1	pg/L	27.4
70362-41-3	PCB-108/124	CU	54.8	54.8	pg/L	54.8
38380-03-9	PCB-110/115	CU	54.8	54.8	pg/L	54.8
39635-32-0	PCB-111	U	27.4	27.4	pg/L	27.4
74472-36-9	PCB-112	U	27.4	27.4	pg/L	27.4
74472-37-0	PCB-114	U	27.4	27.4	pg/L	27.4
31508-00-6	PCB-118		857	854	pg/L	27.4
68194-12-7	PCB-120	U	27.4	27.4	pg/L	27.4
56558-18-0	PCB-121	U	27.4	27.4	pg/L	27.4
76842-07-4	PCB-122	U	27.4	27.4	pg/L	27.4
65510-44-3	PCB-123	U	137	137	pg/L	137
57465-28-8	PCB-126	U	27.4	27.4	pg/L	27.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 4 of 7

SDG Number: 11-2992
Lab Sample ID: 2593001
Client Sample: 1668A Water (PQL)
Client ID: WT_IPSAN-11-10682
Batch ID: 19326
Run Date: 08/14/2011 01:02
Data File: c11aug11a_7-5
Prep Batch: 19304
Prep Date: 10-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/03/2011 09:50

Method: EPA Method 1668A
Analyst: CLP

Prep Method: SW846 3520C
Aliquot: 729.7 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	27.4	27.4	pg/L	27.4
38380-07-3	PCB-128/166	C	234	230	pg/L	54.8
55215-18-4	PCB-138/163/129	C	2130	2130	pg/L	82.2
52663-66-8	PCB-130		106	100	pg/L	27.4
61798-70-7	PCB-131	U	27.4	27.4	pg/L	27.4
38380-05-1	PCB-132		599	594	pg/L	27.4
35694-04-3	PCB-133	U	27.4	27.4	pg/L	27.4
52704-70-8	PCB-134	U	137	137	pg/L	137
52744-13-5	PCB-151/135	C	451	448	pg/L	54.8
38411-22-2	PCB-136		155	153	pg/L	27.4
35694-06-5	PCB-137		52.9	48.1	pg/L	27.4
56030-56-9	PCB-139/140	CU	54.8	54.8	pg/L	54.8
52712-04-6	PCB-141		522	516	pg/L	27.4
41411-61-4	PCB-142	U	27.4	27.4	pg/L	27.4
68194-15-0	PCB-143	U	27.4	27.4	pg/L	27.4
68194-14-9	PCB-144		59.1	56.7	pg/L	27.4
74472-40-5	PCB-145	U	27.4	27.4	pg/L	27.4
51908-16-8	PCB-146		330	324	pg/L	27.4
68194-13-8	PCB-147/149	C	1820	1810	pg/L	54.8
74472-41-6	PCB-148	U	27.4	27.4	pg/L	27.4
68194-08-1	PCB-150	U	27.4	27.4	pg/L	27.4
68194-09-2	PCB-152	U	27.4	27.4	pg/L	27.4
35065-27-1	PCB-153/168	C	1660	1650	pg/L	54.8
60145-22-4	PCB-154	U	27.4	27.4	pg/L	27.4
33979-03-2	PCB-155	U	27.4	27.4	pg/L	27.4
38380-08-4	PCB-156/157	C	223	220	pg/L	54.8
74472-42-7	PCB-158		230	226	pg/L	27.4
39635-35-3	PCB-159	U	27.4	27.4	pg/L	27.4
41411-62-5	PCB-160	U	27.4	27.4	pg/L	27.4
74472-43-8	PCB-161	U	27.4	27.4	pg/L	27.4
39635-34-2	PCB-162	U	27.4	27.4	pg/L	27.4
74472-45-0	PCB-164		175	170	pg/L	27.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-2992
 Lab Sample ID: 2593001
 Client Sample: 1668A Water (PQL)
 Client ID: WT_IPSAN-11-10682
 Batch ID: 19326
 Run Date: 08/14/2011 01:02
 Data File: c11aug11a_7-5
 Prep Batch: 19304
 Prep Date: 10-AUG-11

Client: LANL001
 Date Collected: 07/28/2011 12:00
 Date Received: 08/03/2011 09:50
 Method: EPA Method 1668A
 Analyst: CLP
 Prep Method: SW846 3520C
 Aliquot: 729.7 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	27.4	27.4	pg/L	27.4
52663-72-6	PCB-167		95.5	93	pg/L	27.4
32774-16-6	PCB-169	U	27.4	27.4	pg/L	27.4
35065-30-6	PCB-170		900	897	pg/L	27.4
52663-71-5	PCB-173/171	C	263	260	pg/L	54.8
52663-74-8	PCB-172		176	173	pg/L	27.4
38411-25-5	PCB-174		1130	1120	pg/L	27.4
40186-70-7	PCB-175	U	27.4	27.4	pg/L	27.4
52663-65-7	PCB-176		71.6	69.5	pg/L	27.4
52663-70-4	PCB-177		531	528	pg/L	27.4
52663-67-9	PCB-178		128	125	pg/L	27.4
52663-64-6	PCB-179		245	243	pg/L	27.4
35065-29-3	PCB-193/180	C	2380	2370	pg/L	54.8
74472-47-2	PCB-181	U	27.4	27.4	pg/L	27.4
60145-23-5	PCB-182	U	27.4	27.4	pg/L	27.4
52663-69-1	PCB-183/185	C	561	558	pg/L	54.8
74472-48-3	PCB-184	U	27.4	27.4	pg/L	27.4
74472-49-4	PCB-186	U	27.4	27.4	pg/L	27.4
52663-68-0	PCB-187		724	722	pg/L	27.4
74487-85-7	PCB-188	U	27.4	27.4	pg/L	27.4
39635-31-9	PCB-189		36.7	34.8	pg/L	27.4
41411-64-7	PCB-190		193	191	pg/L	27.4
74472-50-7	PCB-191		38.4	36.3	pg/L	27.4
74472-51-8	PCB-192	U	27.4	27.4	pg/L	27.4
35694-08-7	PCB-194		664	662	pg/L	27.4
52663-78-2	PCB-195		239	237	pg/L	27.4
42740-50-1	PCB-196		233	231	pg/L	27.4
33091-17-7	PCB-197/200	C	65.5	63.8	pg/L	54.8
68194-17-2	PCB-198/199	C	525	523	pg/L	54.8
40186-71-8	PCB-201		46.4	44.6	pg/L	27.4
2136-99-4	PCB-202		80.5	78.6	pg/L	27.4
52663-76-0	PCB-203		269	267	pg/L	27.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-2992
Lab Sample ID: 2593001
Client Sample: 1668A Water (PQL)
Client ID: WT_IPSAN-11-10682
Batch ID: 19326
Run Date: 08/14/2011 01:02
Data File: c11aug11a_7-5
Prep Batch: 19304
Prep Date: 10-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/03/2011 09:50

Method: EPA Method 1668A
Analyst: CLP

Prep Method: SW846 3520C
Aliquot: 729.7 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	27.4	27.4	pg/L	27.4
74472-53-0	PCB-205	U	27.4	27.4	pg/L	27.4
40186-72-9	PCB-206		237	234	pg/L	27.4
52663-79-3	PCB-207		33.6	31.6	pg/L	27.4
52663-77-1	PCB-208		60.1	58	pg/L	27.4
2051-24-3	PCB-209	U	27.4	27.4	pg/L	27.4
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		435	421	pg/L	
25323-68-6	Total Tri PCBs		233	220	pg/L	
26914-33-0	Total Tetra PCBs		1280	1190	pg/L	
25429-29-2	Total Penta PCBs		4050	4000	pg/L	
26601-64-9	Total Hexa PCBs		8840	8770	pg/L	
28655-71-2	Total Hepta PCBs		7400	7330	pg/L	
55722-26-4	Total Octa PCBs		2120	2110	pg/L	
53742-07-7	Total Nona PCBs		330	324	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		24700	24400	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1630	2740	pg/L	59.5	(15%-150%)
13C-3-MoCB		1610	2740	pg/L	58.8	(15%-150%)
13C-4-DiCB		1520	2740	pg/L	55.3	(25%-150%)
13C-15-DiCB		2610	2740	pg/L	95.2	(25%-150%)
13C-19-TrCB		1970	2740	pg/L	71.8	(25%-150%)
13C-37-TrCB		2760	2740	pg/L	101	(25%-150%)
13C-54-TeCB		1240	2740	pg/L	45.1	(25%-150%)
13C-77-TeCB		2730	2740	pg/L	99.7	(25%-150%)
13C-81-TeCB		2710	2740	pg/L	98.8	(25%-150%)
13C-104-PeCB		1610	2740	pg/L	58.7	(25%-150%)
13C-105-PeCB		2400	2740	pg/L	87.6	(25%-150%)
13C-114-PeCB		2340	2740	pg/L	85.3	(25%-150%)
13C-118-PeCB		2340	2740	pg/L	85.5	(25%-150%)
13C-123-PeCB		2490	2740	pg/L	91.0	(25%-150%)
13C-126-PeCB		2250	2740	pg/L	82.2	(25%-150%)
13C-155-HxCB		1850	2740	pg/L	67.6	(25%-150%)
13C-156-HxCB	C	4720	5480	pg/L	86.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		2300	2740	pg/L	83.9	(25%-150%)
13C-169-HxCB		2610	2740	pg/L	95.2	(25%-150%)
13C-188-HpCB		1300	2740	pg/L	47.5	(25%-150%)
13C-189-HpCB		1810	2740	pg/L	66.0	(25%-150%)
13C-202-OcCB		1370	2740	pg/L	50.0	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-2992	Client: LANL001	Project: LANL00109
Lab Sample ID: 2593001	Date Collected: 07/28/2011 12:00	Matrix: WATER
Client Sample: 1668A Water (PQL)	Date Received: 08/03/2011 09:50	
Client ID: WT_IPSAN-11-10682		Prep Basis: As Received
Batch ID: 19326	Method: EPA Method 1668A	
Run Date: 08/14/2011 01:02	Analyst: CLP	Instrument: HRP791
Data File: c11aug11a_7-5		Dilution: 1
Prep Batch: 19304	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 10-AUG-11	Aliquot: 729.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			2190	2740	pg/L	80.1 (25%-150%)
13C-206-NoCB			1940	2740	pg/L	70.8 (25%-150%)
13C-208-NoCB			1590	2740	pg/L	58.0 (25%-150%)
13C-209-DeCB			1360	2740	pg/L	49.7 (25%-150%)
13C-28-TrCB			1960	2740	pg/L	71.6 (30%-135%)
13C-111-PeCB			2200	2740	pg/L	80.2 (30%-135%)
13C-178-HpCB			1910	2740	pg/L	69.9 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

1668A PCBs with High Solids Prep for 26-JUL-11 to 01-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	0.66	0.127	0.913	
3-Chlorobiphenyl (2)	pg/L	0.823	0.153	1.13	
4-Chlorobiphenyl (3)	pg/L	0.677	0.11	0.897	
2,2'-Dichlorobiphenyl (4)	pg/L	2.82	0.812	4.45	
2,3-Dichlorobiphenyl (5)	pg/L	2.51	0.419	3.34	
2,3'-Dichlorobiphenyl (6)	pg/L	2.19	0.366	2.92	
2,4-Dichlorobiphenyl (7)	pg/L	2.19	0.372	2.93	
2,4'-Dichlorobiphenyl (8)	pg/L	3.91	5.98	15.9	
2,5-Dichlorobiphenyl (9)	pg/L	2.42	0.406	3.23	
2,6-Dichlorobiphenyl (10)	pg/L	1.74	0.294	2.33	
3,3'-Dichlorobiphenyl (11)	pg/L	2.32	0.386	3.09	
3,4-Dichlorobiphenyl (12)	pg/L	2.37	0.395	3.16	
3,5-Dichlorobiphenyl (14)	pg/L	2.26	0.376	3.01	
4,4'-Dichlorobiphenyl (15)	pg/L	2.28	0.407	3.09	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.14	0.269	1.68	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.47	1.24	3.94	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.767	0.181	1.13	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.931	0.179	1.29	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.652	0.154	0.96	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.618	0.144	0.906	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.612	0.143	0.897	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.624	0.147	0.918	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.659	0.156	0.97	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.544	0.13	0.804	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.673	0.156	0.986	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.677	0.16	0.997	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.585	0.137	0.858	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.622	0.146	0.913	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.661	0.156	0.973	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.767	0.261	1.29	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.708	0.237	1.18	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.787	0.258	1.3	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.793	0.268	1.33	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.709	0.24	1.19	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.81	0.508	2.82	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.89	0.524	2.94	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.72	0.484	2.68	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.82	0.85	4.52	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.8	0.505	2.81	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.605	0.0911	0.787	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.756	0.113	0.983	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.62	0.451	2.52	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.52	0.427	2.38	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.572	0.0864	0.745	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.72	0.481	2.68	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.445	0.0814	0.608	

Blank Population Summary

1668A PCBs with High Solids Prep for 26-JUL-11 to 01-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.896	0.119	1.13	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.994	0.13	1.25	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.88	0.116	1.11	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.832	0.109	1.05	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.4	0.391	2.18	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.84	0.111	1.06	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.886	0.116	1.12	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.831	0.11	1.05	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.29	0.364	2.01	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.795	0.106	1.01	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.968	0.127	1.22	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.767	0.0998	0.967	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.845	0.112	1.07	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.24	0.34	1.92	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.794	0.11	1.01	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.863	0.113	1.09	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.763	0.0999	0.963	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.901	0.117	1.14	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.782	0.108	0.998	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.32	0.251	1.82	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.29	0.247	1.78	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	1.55	0.292	2.13	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.01	0.194	1.4	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	1.06	0.199	1.45	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	1.14	0.215	1.57	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.24	0.235	1.71	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.09	0.204	1.49	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.17	0.222	1.61	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.21	0.228	1.67	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.21	0.226	1.66	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.15	0.218	1.59	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.441	0.103	0.647	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	1.24	0.233	1.71	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.946	0.191	1.33	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.08	0.205	1.49	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.428	0.0893	0.607	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.867	0.144	1.15	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.96	0.147	1.25	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.96	0.155	1.27	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.863	0.136	1.14	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	0.94	0.177	1.29	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.835	0.16	1.15	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.17	0.218	1.6	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.907	0.147	1.2	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.884	0.145	1.17	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.836	0.16	1.16	

Blank Population Summary

1668A PCBs with High Solids Prep for 26-JUL-11 to 01-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.85	0.162	1.17	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.925	0.148	1.22	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.838	0.135	1.11	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.897	0.153	1.2	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.87	0.141	1.15	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.04	0.205	1.45	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.07	0.22	1.51	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.27	0.251	1.77	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.26	0.243	1.74	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.21	0.226	1.67	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.23	1.68	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.27	0.262	1.8	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.676	0.141	0.958	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.521	0.104	0.729	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.06	0.224	1.51	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.17	0.221	1.61	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.46	0.283	2.03	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.33	0.243	1.81	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.28	0.223	1.73	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.697	0.143	0.983	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.52	0.104	0.728	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.17	0.228	1.63	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.16	0.23	1.62	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.698	0.139	0.977	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.507	0.0997	0.706	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.522	0.104	0.729	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.895	0.177	1.25	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.734	0.151	1.04	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.473	0.0923	0.658	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.849	0.144	1.14	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1	0.195	1.39	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.668	0.113	0.894	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.03	0.184	1.4	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.94	0.179	1.3	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.634	0.11	0.855	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.15	0.21	1.57	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.943	0.175	1.29	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.663	0.114	0.891	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.633	0.113	0.858	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.945	0.213	1.37	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.963	0.223	1.41	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.891	0.206	1.3	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.01	0.232	1.47	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.681	0.163	1.01	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.534	0.129	0.793	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.863	0.203	1.27	

Blank Population Summary

1668A PCBs with High Solids Prep for 26-JUL-11 to 01-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.715	0.174	1.06	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.521	0.124	0.77	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.826	0.189	1.2	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.785	0.183	1.15	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.838	0.203	1.24	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.755	0.178	1.11	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.489	0.116	0.722	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.528	0.128	0.784	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.617	0.149	0.915	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.545	0.128	0.801	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.735	0.163	1.06	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.768	0.171	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.7	0.158	1.02	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.73	0.165	1.06	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.815	0.215	1.24	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.716	0.177	1.07	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.647	0.155	0.956	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.458	0.113	0.684	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.642	0.154	0.95	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.458	0.113	0.684	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.526	0.128	0.782	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.61	0.144	0.898	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.465	0.112	0.689	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.554	0.135	0.825	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.838	0.223	1.28	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.653	0.169	0.991	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.669	0.171	1.01	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.655	0.189	1.03	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-2998
Lab Sample ID: 2592001
Client Sample: 1668A Water (PQL)
Client ID: WT_IPSAN-11-10690
Batch ID: 19530
Run Date: 08/31/2011 15:54
Data File: c31aug11a-7
Prep Batch: 19331
Prep Date: 12-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/03/2011 09:50

Method: EPA Method 1668A HS
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 946.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1		1040	1030	pg/L	211
2051-61-8	PCB-2	U	211	211	pg/L	211
2051-62-9	PCB-3		493	493	pg/L	211
13029-08-8	PCB-4		1220	1210	pg/L	211
16605-91-7	PCB-5	U	1060	1060	pg/L	1060
25569-80-6	PCB-6		360	357	pg/L	211
33284-50-3	PCB-7	U	211	211	pg/L	211
34883-43-7	PCB-8	U	1060	1060	pg/L	1060
34883-39-1	PCB-9	U	211	211	pg/L	211
33146-45-1	PCB-10	U	211	211	pg/L	211
2050-67-1	PCB-11	U	10600	10600	pg/L	10600
2974-92-7	PCB-13/12	C	684	681	pg/L	423
34883-41-5	PCB-14	U	211	211	pg/L	211
2050-68-2	PCB-15		3940	3940	pg/L	1060
38444-78-9	PCB-16		1840	1840	pg/L	211
37680-66-3	PCB-17		1860	1850	pg/L	211
37680-65-2	PCB-18/30	C	3320	3320	pg/L	423
38444-73-4	PCB-19		662	661	pg/L	211
38444-84-7	PCB-20/28	C	11900	11900	pg/L	2110
55702-46-0	PCB-21/33	C	3330	3330	pg/L	2110
38444-85-8	PCB-22		4400	4400	pg/L	1060
55720-44-0	PCB-23	U	211	211	pg/L	211
55702-45-9	PCB-24	U	211	211	pg/L	211
55712-37-3	PCB-25		553	552	pg/L	211
38444-81-4	PCB-26/29	C	1670	1670	pg/L	423
38444-76-7	PCB-27		393	392	pg/L	211
16606-02-3	PCB-31		7250	7250	pg/L	1060
38444-77-8	PCB-32		1500	1500	pg/L	211
37680-68-5	PCB-34	U	211	211	pg/L	211
37680-69-6	PCB-35		679	678	pg/L	211
38444-87-0	PCB-36	U	211	211	pg/L	211
38444-90-5	PCB-37		6880	6880	pg/L	1060

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 2 of 7

SDG Number: 11-2998
Lab Sample ID: 2592001
Client Sample: 1668A Water (PQL)
Client ID: WT_IPSAN-11-10690
Batch ID: 19530
Run Date: 08/31/2011 15:54
Data File: c31aug11a-7
Prep Batch: 19331
Prep Date: 12-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/03/2011 09:50

Method: EPA Method 1668A HS
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 946.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	211	211	pg/L	211
38444-88-1	PCB-39	U	211	211	pg/L	211
38444-93-8	PCB-40/71	C	11900	11900	pg/L	423
52663-59-9	PCB-41		1960	1960	pg/L	211
36559-22-5	PCB-42		5630	5630	pg/L	211
70362-46-8	PCB-43		1220	1220	pg/L	211
41464-39-5	PCB-44/65/47	C	33600	33600	pg/L	634
70362-45-7	PCB-45/51	CU	423	423	pg/L	423
41464-47-5	PCB-46		1270	1270	pg/L	211
70362-47-9	PCB-48		2960	2950	pg/L	211
41464-40-8	PCB-69/49	C	16300	16300	pg/L	423
62796-65-0	PCB-50/53	C	2240	2240	pg/L	423
35693-99-3	PCB-52		58400	58400	pg/L	1060
15968-05-5	PCB-54	U	211	211	pg/L	211
74338-24-2	PCB-55		724	723	pg/L	211
41464-43-1	PCB-56		20300	20300	pg/L	1060
70424-67-8	PCB-57	U	211	211	pg/L	211
41464-49-7	PCB-58	U	211	211	pg/L	211
74472-33-6	PCB-59/62/75	C	1960	1960	pg/L	634
33025-41-1	PCB-60		8410	8400	pg/L	211
33284-53-6	PCB-61/76/70/74	C	75000	75000	pg/L	845
74472-34-7	PCB-63		1140	1140	pg/L	211
52663-58-8	PCB-64		12400	12400	pg/L	211
32598-10-0	PCB-66		33600	33600	pg/L	1060
73575-53-8	PCB-67		1130	1130	pg/L	211
73575-52-7	PCB-68		215	214	pg/L	211
41464-42-0	PCB-72		511	509	pg/L	211
74338-23-1	PCB-73		585	583	pg/L	211
32598-13-3	PCB-77		9730	9730	pg/L	211
70362-49-1	PCB-78	U	211	211	pg/L	211
41464-48-6	PCB-79		1540	1540	pg/L	211
33284-52-5	PCB-80	U	211	211	pg/L	211

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 11-2998
 Lab Sample ID: 2592001
 Client Sample: 1668A Water (PQL)
 Client ID: WT_IPSAN-11-10690
 Batch ID: 19530
 Run Date: 08/31/2011 15:54
 Data File: c31aug11a-7
 Prep Batch: 19331
 Prep Date: 12-AUG-11

Client: LANL001
 Date Collected: 07/30/2011 12:00
 Date Received: 08/03/2011 09:50
 Method: EPA Method 1668A HS
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 946.6 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	211	211	pg/L	211
52663-62-4	PCB-82		23300	23300	pg/L	211
60145-20-2	PCB-83		11900	11900	pg/L	211
52663-60-2	PCB-84		53100	53100	pg/L	211
65510-45-4	PCB-117/116/85	C	34300	34300	pg/L	634
55312-69-1	PCB-86/87/97/109/119/125	C	138000	138000	pg/L	1270
55215-17-3	PCB-88/91	C	21000	21000	pg/L	423
73575-57-2	PCB-89		1350	1350	pg/L	211
68194-07-0	PCB-113/90/101	C	217000	217000	pg/L	634
52663-61-3	PCB-92		42900	42900	pg/L	211
73575-56-1	PCB-93/100	C	1030	1030	pg/L	423
73575-55-0	PCB-94		540	538	pg/L	211
38379-99-6	PCB-95		149000	149000	pg/L	1060
73575-54-9	PCB-96		638	637	pg/L	211
60233-25-2	PCB-102/98	C	3870	3870	pg/L	423
38380-01-7	PCB-99		82800	82800	pg/L	1060
60145-21-3	PCB-103		1350	1350	pg/L	211
56558-16-8	PCB-104	U	211	211	pg/L	211
32598-14-4	PCB-105		58500	58500	pg/L	1060
70424-69-0	PCB-106	U	211	211	pg/L	211
70424-68-9	PCB-107		17100	17100	pg/L	211
70362-41-3	PCB-108/124	C	9020	9020	pg/L	423
38380-03-9	PCB-110/115	CU	2110	2110	pg/L	2110
39635-32-0	PCB-111	U	211	211	pg/L	211
74472-36-9	PCB-112	U	211	211	pg/L	211
74472-37-0	PCB-114		3550	3540	pg/L	211
31508-00-6	PCB-118		194000	194000	pg/L	211
68194-12-7	PCB-120		800	799	pg/L	211
56558-18-0	PCB-121	U	211	211	pg/L	211
76842-07-4	PCB-122		2550	2550	pg/L	211
65510-44-3	PCB-123		3710	3710	pg/L	211
57465-28-8	PCB-126		2590	2590	pg/L	211

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 11-2998
Lab Sample ID: 2592001
Client Sample: 1668A Water (PQL)
Client ID: WT_IPSAN-11-10690
Batch ID: 19530
Run Date: 08/31/2011 15:54
Data File: c31aug11a-7
Prep Batch: 19331
Prep Date: 12-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/03/2011 09:50

Method: EPA Method 1668A HS
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 946.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127		430	429	pg/L	211
38380-07-3	PCB-128/166	C	70100	70100	pg/L	423
55215-18-4	PCB-138/163/129	C	527000	527000	pg/L	634
52663-66-8	PCB-130		30400	30400	pg/L	211
61798-70-7	PCB-131		5240	5240	pg/L	211
38380-05-1	PCB-132		151000	151000	pg/L	211
35694-04-3	PCB-133		7190	7190	pg/L	211
52704-70-8	PCB-134		24000	23900	pg/L	211
52744-13-5	PCB-151/135	C	150000	150000	pg/L	423
38411-22-2	PCB-136		48300	48300	pg/L	1060
35694-06-5	PCB-137		17300	17300	pg/L	211
56030-56-9	PCB-139/140	C	6780	6780	pg/L	423
52712-04-6	PCB-141		112000	112000	pg/L	211
41411-61-4	PCB-142	U	211	211	pg/L	211
68194-15-0	PCB-143		395	393	pg/L	211
68194-14-9	PCB-144		18100	18100	pg/L	211
74472-40-5	PCB-145	U	211	211	pg/L	211
51908-16-8	PCB-146		83400	83400	pg/L	211
68194-13-8	PCB-147/149	C	394000	394000	pg/L	2110
74472-41-6	PCB-148		493	492	pg/L	211
68194-08-1	PCB-150		336	336	pg/L	211
68194-09-2	PCB-152	U	211	211	pg/L	211
35065-27-1	PCB-153/168	C	393000	393000	pg/L	423
60145-22-4	PCB-154		4740	4740	pg/L	211
33979-03-2	PCB-155	U	211	211	pg/L	211
38380-08-4	PCB-156/157	C	46400	46400	pg/L	423
74472-42-7	PCB-158		52900	52900	pg/L	211
39635-35-3	PCB-159	U	211	211	pg/L	211
41411-62-5	PCB-160	U	211	211	pg/L	211
74472-43-8	PCB-161	U	211	211	pg/L	211
39635-34-2	PCB-162		1430	1430	pg/L	211
74472-45-0	PCB-164		45800	45800	pg/L	211

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-2998	Client: LANL001	Project: LANL00109
Lab Sample ID: 2592001	Date Collected: 07/30/2011 12:00	Matrix: WATER
Client Sample: 1668A Water (PQL)	Date Received: 08/03/2011 09:50	
Client ID: WT_IPSAN-11-10690		Prep Basis: As Received
Batch ID: 19530	Method: EPA Method 1668A HS	
Run Date: 08/31/2011 15:54	Analyst: MJC	Instrument: HRP791
Data File: c31aug11a-7		Dilution: 10
Prep Batch: 19331	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 12-AUG-11	Aliquot: 946.6 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	211	211	pg/L	211
52663-72-6	PCB-167		20200	20200	pg/L	211
32774-16-6	PCB-169	U	211	211	pg/L	211
35065-30-6	PCB-170		119000	119000	pg/L	211
52663-71-5	PCB-173/171	C	40300	40300	pg/L	423
52663-74-8	PCB-172		21800	21800	pg/L	211
38411-25-5	PCB-174		160000	160000	pg/L	211
40186-70-7	PCB-175		4760	4760	pg/L	211
52663-65-7	PCB-176		14900	14900	pg/L	211
52663-70-4	PCB-177		79100	79100	pg/L	211
52663-67-9	PCB-178		26400	26400	pg/L	211
52663-64-6	PCB-179		52700	52700	pg/L	211
35065-29-3	PCB-193/180	CU	423	423	pg/L	423
74472-47-2	PCB-181		839	838	pg/L	211
60145-23-5	PCB-182		566	565	pg/L	211
52663-69-1	PCB-183/185	C	80700	80700	pg/L	423
74472-48-3	PCB-184	U	211	211	pg/L	211
74472-49-4	PCB-186	U	211	211	pg/L	211
52663-68-0	PCB-187		143000	143000	pg/L	211
74487-85-7	PCB-188	U	211	211	pg/L	211
39635-31-9	PCB-189		4690	4680	pg/L	211
41411-64-7	PCB-190		25200	25200	pg/L	211
74472-50-7	PCB-191		4660	4660	pg/L	211
74472-51-8	PCB-192	U	211	211	pg/L	211
35694-08-7	PCB-194		46300	46300	pg/L	211
52663-78-2	PCB-195		20800	20800	pg/L	211
42740-50-1	PCB-196		24000	24000	pg/L	211
33091-17-7	PCB-197/200	CU	423	423	pg/L	423
68194-17-2	PCB-198/199	C	52300	52300	pg/L	423
40186-71-8	PCB-201		5850	5850	pg/L	211
2136-99-4	PCB-202		9970	9970	pg/L	211
52663-76-0	PCB-203		29800	29800	pg/L	211

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-2998	Client: LANL001	Project: LANL00109
Lab Sample ID: 2592001	Date Collected: 07/30/2011 12:00	Matrix: WATER
Client Sample: 1668A Water (PQL)	Date Received: 08/03/2011 09:50	
Client ID: WT_IPSAN-11-10690		Prep Basis: As Received
Batch ID: 19530	Method: EPA Method 1668A HS	
Run Date: 08/31/2011 15:54	Analyst: MJC	Instrument: HRP791
Data File: c31aug11a-7		Dilution: 10
Prep Batch: 19331	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 12-AUG-11	Aliquot: 946.6 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	211	211	pg/L	211
74472-53-0	PCB-205		2540	2540	pg/L	211
40186-72-9	PCB-206		5860	5860	pg/L	211
52663-79-3	PCB-207		1070	1070	pg/L	211
52663-77-1	PCB-208		2110	2110	pg/L	211
2051-24-3	PCB-209		3800	3800	pg/L	211
27323-18-8	Total Mono PCBs		1530	1530	pg/L	
25512-42-9	Total Di PCBs		6200	6190	pg/L	
25323-68-6	Total Tri PCBs		46200	46200	pg/L	
26914-33-0	Total Tetra PCBs		303000	303000	pg/L	
25429-29-2	Total Penta PCBs		1080000	1080000	pg/L	
26601-64-9	Total Hexa PCBs		2210000	2210000	pg/L	
28655-71-2	Total Hepta PCBs		779000	779000	pg/L	
55722-26-4	Total Octa PCBs		192000	192000	pg/L	
53742-07-7	Total Nona PCBs		9040	9040	pg/L	
2051-24-3	Total Deca PCB		3800	3800	pg/L	
	Total PCB Congeners		4630000	4630000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		184	2110	pg/L	8.69 *	(15%-150%)
13C-3-MoCB		234	2110	pg/L	11.1 *	(15%-150%)
13C-4-DiCB		183	2110	pg/L	8.64 *	(25%-150%)
13C-15-DiCB		406	2110	pg/L	19.2 *	(25%-150%)
13C-19-TrCB		280	2110	pg/L	13.3 *	(25%-150%)
13C-37-TrCB		498	2110	pg/L	23.5 *	(25%-150%)
13C-54-TeCB		252	2110	pg/L	11.9 *	(25%-150%)
13C-77-TeCB		480	2110	pg/L	22.7 *	(25%-150%)
13C-81-TeCB		438	2110	pg/L	20.7 *	(25%-150%)
13C-104-PeCB		173	2110	pg/L	8.20 *	(25%-150%)
13C-105-PeCB		515	2110	pg/L	24.4 *	(25%-150%)
13C-114-PeCB		354	2110	pg/L	16.7 *	(25%-150%)
13C-118-PeCB		382	2110	pg/L	18.1 *	(25%-150%)
13C-123-PeCB		380	2110	pg/L	18.0 *	(25%-150%)
13C-126-PeCB		401	2110	pg/L	19.0 *	(25%-150%)
13C-155-HxCB		198	2110	pg/L	9.37 *	(25%-150%)
13C-156-HxCB	C	757	4230	pg/L	17.9 *	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		369	2110	pg/L	17.5 *	(25%-150%)
13C-169-HxCB		443	2110	pg/L	21.0 *	(25%-150%)
13C-188-HpCB		244	2110	pg/L	11.5 *	(25%-150%)
13C-189-HpCB		348	2110	pg/L	16.5 *	(25%-150%)
13C-202-OcCB		283	2110	pg/L	13.4 *	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-2998	Client: LANL001	Project: LANL00109
Lab Sample ID: 2592001	Date Collected: 07/30/2011 12:00	Matrix: WATER
Client Sample: 1668A Water (PQL)	Date Received: 08/03/2011 09:50	
Client ID: WT_IPSAN-11-10690		Prep Basis: As Received
Batch ID: 19530	Method: EPA Method 1668A HS	
Run Date: 08/31/2011 15:54	Analyst: MJC	Instrument: HRP791
Data File: c31aug11a-7		Dilution: 10
Prep Batch: 19331	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 12-AUG-11	Aliquot: 946.6 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			392	2110	pg/L	18.6 * (25%-150%)
13C-206-NoCB			680	2110	pg/L	32.2 (25%-150%)
13C-208-NoCB			339	2110	pg/L	16.0 * (25%-150%)
13C-209-DeCB			367	2110	pg/L	17.4 * (25%-150%)
13C-28-TrCB			1920	2110	pg/L	91.1 (30%-135%)
13C-111-PeCB			1970	2110	pg/L	93.2 (30%-135%)
13C-178-HpCB			2070	2110	pg/L	98.0 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.51	0.953	3.41	
3-Chlorobiphenyl (2)	pg/L	1.7	1.1	3.9	
4-Chlorobiphenyl (3)	pg/L	1.45	0.874	3.2	
2,2'-Dichlorobiphenyl (4)	pg/L	4.77	3.22	11.2	
2,3-Dichlorobiphenyl (5)	pg/L	2.96	1.82	6.6	
2,3'-Dichlorobiphenyl (6)	pg/L	2.59	1.6	5.79	
2,4-Dichlorobiphenyl (7)	pg/L	2.48	1.53	5.54	
2,4'-Dichlorobiphenyl (8)	pg/L	2.57	1.5	5.56	
2,5-Dichlorobiphenyl (9)	pg/L	2.67	1.69	6.06	
2,6-Dichlorobiphenyl (10)	pg/L	2.55	2.03	6.6	
3,3'-Dichlorobiphenyl (11)	pg/L	3.32	1.83	6.98	
3,4-Dichlorobiphenyl (12)	pg/L	4.48	2.4	9.27	
3,5-Dichlorobiphenyl (14)	pg/L	2.99	1.69	6.37	
4,4'-Dichlorobiphenyl (15)	pg/L	3.05	1.94	6.93	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.75	1.29	4.32	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.74	1.26	4.27	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.33	0.886	3.1	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.65	1.14	3.94	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.2	0.745	2.69	
2,3,4-Trichlorobiphenyl (21)	pg/L	1.29	0.674	2.64	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1.15	0.723	2.59	
2,3,5-Trichlorobiphenyl (23)	pg/L	1.06	0.687	2.43	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.01	0.696	2.4	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.987	0.608	2.2	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.41	0.727	2.87	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.03	0.745	2.52	
2,4',5-Trichlorobiphenyl (31)	pg/L	1.57	1.62	4.81	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.982	0.68	2.34	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.1	0.729	2.55	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.58	0.892	3.36	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.33	0.737	2.8	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.32	0.83	2.98	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.43	0.812	3.06	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.3	0.731	2.76	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.01	1.29	4.59	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.26	1.54	5.33	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.03	1.35	4.74	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.52	1.85	6.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.27	1.27	4.8	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.02	0.468	1.96	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.08	0.691	2.46	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.89	1.26	4.41	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.8	1.07	3.95	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.887	0.456	1.8	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.86	1.29	4.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.618	0.372	1.36	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.45	0.885	3.22	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.69	0.936	3.56	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.38	0.835	3.05	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.34	0.789	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.86	0.996	3.85	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.48	0.801	3.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	2.26	1.07	4.39	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.35	0.792	2.93	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.46	0.927	3.31	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.4	0.837	3.08	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.55	0.919	3.38	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.36	0.831	3.02	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.28	0.776	2.83	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.4	0.922	3.24	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.56	0.968	3.49	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.6	0.927	3.45	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.36	0.751	2.86	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.55	0.895	3.34	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.47	0.907	3.28	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.87	0.989	3.85	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.81	0.989	3.79	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	2.09	1.18	4.45	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.85	0.836	3.52	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	2.66	2.7	8.06	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	2.11	0.971	4.05	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.65	0.929	3.51	
2,2',3,4,5'-Pentachlorobiphenyl (90)	pg/L	1.78	0.818	3.42	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.59	0.889	3.37	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.61	0.943	3.49	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.57	0.924	3.41	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.879	3.25	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.6	0.41	1.42	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	2.01	0.927	3.87	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.34	0.77	2.88	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.38	0.804	2.99	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.615	0.367	1.35	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.55	0.92	3.39	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.47	0.909	3.29	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.59	0.917	3.42	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.52	0.859	3.23	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.79	3.99	13.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.16	0.623	2.4	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.42	0.788	3	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.58	0.951	3.48	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.53	0.949	3.43	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	1.16	0.625	2.41	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.13	0.639	2.41	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.54	0.898	3.33	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.42	0.923	3.27	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.73	1.03	3.79	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.52	0.913	3.35	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.8	1.31	4.42	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	2.07	1.38	4.83	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	2.3	1.76	5.82	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	2.25	1.7	5.65	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	2.16	1.63	5.41	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	2.15	1.68	5.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	2.36	1.86	6.08	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.32	0.687	2.7	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.784	0.543	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.95	1.43	4.81	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	2.13	1.55	5.22	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	2.48	1.93	6.33	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	2.28	1.76	5.8	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	2.09	1.65	5.38	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.02	0.687	2.4	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.771	0.532	1.84	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	2.34	1.59	5.51	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	2.73	2.51	7.76	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1	0.649	2.3	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.74	0.517	1.77	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.727	0.543	1.81	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	2.25	1.77	5.79	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.03	0.752	2.53	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.648	0.399	1.45	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.37	0.799	2.97	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.66	1.27	4.19	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.01	0.636	2.28	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.57	1.25	4.07	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.53	1.23	4	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.951	0.605	2.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.9	1.47	4.84	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.67	1.27	4.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.15	0.653	2.46	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.16	0.598	2.36	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.34	0.731	2.8	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.62	0.794	3.21	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.33	0.806	2.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.48	0.935	3.35	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.06	0.816	2.69	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.847	0.659	2.16	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.35	0.836	3.02	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.13	0.878	2.89	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.835	0.659	2.15	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.72	1.07	3.85	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.2	0.721	2.64	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.27	0.983	3.23	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.47	0.636	2.74	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.78	0.618	2.02	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.832	0.653	2.14	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	1.02	0.734	2.49	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.78	0.584	1.95	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.933	0.495	1.92	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	1.02	0.543	2.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.988	0.548	2.09	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1	0.579	2.16	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.995	0.573	2.14	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.08	0.611	2.31	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.939	0.645	2.23	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.89	0.436	1.76	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.14	0.59	2.32	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.741	0.528	1.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.777	0.527	1.83	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.866	0.591	2.05	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.74	0.522	1.78	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.895	0.512	1.92	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.14	0.619	2.38	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.923	0.542	2.01	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.934	0.559	2.05	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.941	0.511	1.96	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3012
Lab Sample ID: 2600001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10985
Batch ID: 19408
Run Date: 08/22/2011 16:59
Data File: c22aug11a-7
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 950.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21	21	pg/L	21.0
2051-61-8	PCB-2	U	21	21	pg/L	21.0
2051-62-9	PCB-3	U	21	21	pg/L	21.0
13029-08-8	PCB-4	U	105	105	pg/L	105
16605-91-7	PCB-5	U	21	21	pg/L	21.0
25569-80-6	PCB-6	U	21	21	pg/L	21.0
33284-50-3	PCB-7	U	21	21	pg/L	21.0
34883-43-7	PCB-8	U	21	21	pg/L	21.0
34883-39-1	PCB-9	U	21	21	pg/L	21.0
33146-45-1	PCB-10	U	105	105	pg/L	105
2050-67-1	PCB-11	B	153	146	pg/L	105
2974-92-7	PCB-13/12	CU	42.1	42.1	pg/L	42.1
34883-41-5	PCB-14	U	21	21	pg/L	21.0
2050-68-2	PCB-15	U	21	21	pg/L	21.0
38444-78-9	PCB-16	U	105	105	pg/L	105
37680-66-3	PCB-17	U	21	21	pg/L	21.0
37680-65-2	PCB-18/30	CU	42.1	42.1	pg/L	42.1
38444-73-4	PCB-19	U	21	21	pg/L	21.0
38444-84-7	PCB-20/28	CU	42.1	42.1	pg/L	42.1
55702-46-0	PCB-21/33	CU	42.1	42.1	pg/L	42.1
38444-85-8	PCB-22	U	21	21	pg/L	21.0
55720-44-0	PCB-23	U	21	21	pg/L	21.0
55702-45-9	PCB-24	U	21	21	pg/L	21.0
55712-37-3	PCB-25	U	21	21	pg/L	21.0
38444-81-4	PCB-26/29	CU	42.1	42.1	pg/L	42.1
38444-76-7	PCB-27	U	21	21	pg/L	21.0
16606-02-3	PCB-31	U	21	21	pg/L	21.0
38444-77-8	PCB-32	U	21	21	pg/L	21.0
37680-68-5	PCB-34	U	21	21	pg/L	21.0
37680-69-6	PCB-35	U	21	21	pg/L	21.0
38444-87-0	PCB-36	U	21	21	pg/L	21.0
38444-90-5	PCB-37	U	21	21	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3012
Lab Sample ID: 2600001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10985
Batch ID: 19408
Run Date: 08/22/2011 16:59
Data File: c22aug11a-7
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
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Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 950.5 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21	21	pg/L	21.0
38444-88-1	PCB-39	U	21	21	pg/L	21.0
38444-93-8	PCB-40/71	CU	42.1	42.1	pg/L	42.1
52663-59-9	PCB-41	U	105	105	pg/L	105
36559-22-5	PCB-42	U	21	21	pg/L	21.0
70362-46-8	PCB-43	U	21	21	pg/L	21.0
41464-39-5	PCB-44/65/47	CU	63.1	63.1	pg/L	63.1
70362-45-7	PCB-45/51	CU	42.1	42.1	pg/L	42.1
41464-47-5	PCB-46	U	21	21	pg/L	21.0
70362-47-9	PCB-48	U	21	21	pg/L	21.0
41464-40-8	PCB-69/49	CU	42.1	42.1	pg/L	42.1
62796-65-0	PCB-50/53	CU	42.1	42.1	pg/L	42.1
35693-99-3	PCB-52		84.5	80	pg/L	21.0
15968-05-5	PCB-54	U	21	21	pg/L	21.0
74338-24-2	PCB-55	U	21	21	pg/L	21.0
41464-43-1	PCB-56		27.4	23.8	pg/L	21.0
70424-67-8	PCB-57	U	21	21	pg/L	21.0
41464-49-7	PCB-58	U	21	21	pg/L	21.0
74472-33-6	PCB-59/62/75	CU	63.1	63.1	pg/L	63.1
33025-41-1	PCB-60	U	21	21	pg/L	21.0
33284-53-6	PCB-61/76/70/74	C	132	128	pg/L	84.2
74472-34-7	PCB-63	U	21	21	pg/L	21.0
52663-58-8	PCB-64	U	21	21	pg/L	21.0
32598-10-0	PCB-66	U	21	21	pg/L	21.0
73575-53-8	PCB-67	U	21	21	pg/L	21.0
73575-52-7	PCB-68	U	21	21	pg/L	21.0
41464-42-0	PCB-72	U	21	21	pg/L	21.0
74338-23-1	PCB-73	U	21	21	pg/L	21.0
32598-13-3	PCB-77		31.8	28.3	pg/L	21.0
70362-49-1	PCB-78	U	21	21	pg/L	21.0
41464-48-6	PCB-79	U	21	21	pg/L	21.0
33284-52-5	PCB-80	U	21	21	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3012
Lab Sample ID: 2600001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10985
Batch ID: 19408
Run Date: 08/22/2011 16:59
Data File: c22aug11a-7
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
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Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 950.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21	21	pg/L	21.0
52663-62-4	PCB-82		43.9	40	pg/L	21.0
60145-20-2	PCB-83	U	21	21	pg/L	21.0
52663-60-2	PCB-84	U	21	21	pg/L	21.0
65510-45-4	PCB-117/116/85	CU	63.1	63.1	pg/L	63.1
55312-69-1	PCB-86/87/97/109/119/125	C	229	221	pg/L	126
55215-17-3	PCB-88/91	CU	42.1	42.1	pg/L	42.1
73575-57-2	PCB-89	U	21	21	pg/L	21.0
68194-07-0	PCB-113/90/101	C	393	390	pg/L	63.1
52663-61-3	PCB-92		61.9	58.5	pg/L	21.0
73575-56-1	PCB-93/100	CU	42.1	42.1	pg/L	42.1
73575-55-0	PCB-94	U	21	21	pg/L	21.0
38379-99-6	PCB-95		256	253	pg/L	21.0
73575-54-9	PCB-96	U	21	21	pg/L	21.0
60233-25-2	PCB-102/98	CU	42.1	42.1	pg/L	42.1
38380-01-7	PCB-99	U	105	105	pg/L	105
60145-21-3	PCB-103	U	21	21	pg/L	21.0
56558-16-8	PCB-104	U	21	21	pg/L	21.0
32598-14-4	PCB-105		178	175	pg/L	105
70424-69-0	PCB-106	U	21	21	pg/L	21.0
70424-68-9	PCB-107		32.8	29.4	pg/L	21.0
70362-41-3	PCB-108/124	CU	42.1	42.1	pg/L	42.1
38380-03-9	PCB-110/115	CU	42.1	42.1	pg/L	42.1
39635-32-0	PCB-111	U	21	21	pg/L	21.0
74472-36-9	PCB-112	U	21	21	pg/L	21.0
74472-37-0	PCB-114	U	21	21	pg/L	21.0
31508-00-6	PCB-118		364	361	pg/L	21.0
68194-12-7	PCB-120	U	21	21	pg/L	21.0
56558-18-0	PCB-121	U	21	21	pg/L	21.0
76842-07-4	PCB-122	U	21	21	pg/L	21.0
65510-44-3	PCB-123	U	105	105	pg/L	105
57465-28-8	PCB-126	U	22.2	21	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3012
Lab Sample ID: 2600001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10985
Batch ID: 19408
Run Date: 08/22/2011 16:59
Data File: c22aug11a-7
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 950.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21	21	pg/L	21.0
38380-07-3	PCB-128/166	C	205	200	pg/L	42.1
55215-18-4	PCB-138/163/129	C	1680	1680	pg/L	63.1
52663-66-8	PCB-130	U	21	21	pg/L	21.0
61798-70-7	PCB-131	U	21	21	pg/L	21.0
38380-05-1	PCB-132		426	421	pg/L	21.0
35694-04-3	PCB-133	U	21	21	pg/L	21.0
52704-70-8	PCB-134	U	105	105	pg/L	105
52744-13-5	PCB-151/135	C	574	572	pg/L	42.1
38411-22-2	PCB-136		164	162	pg/L	21.0
35694-06-5	PCB-137	U	21	21	pg/L	21.0
56030-56-9	PCB-139/140	CU	42.1	42.1	pg/L	42.1
52712-04-6	PCB-141	U	21	21	pg/L	21.0
41411-61-4	PCB-142	U	21	21	pg/L	21.0
68194-15-0	PCB-143	U	21	21	pg/L	21.0
68194-14-9	PCB-144		70.8	68.4	pg/L	21.0
74472-40-5	PCB-145	U	21	21	pg/L	21.0
51908-16-8	PCB-146		264	258	pg/L	21.0
68194-13-8	PCB-147/149	C	1330	1320	pg/L	42.1
74472-41-6	PCB-148	U	21	21	pg/L	21.0
68194-08-1	PCB-150	U	21	21	pg/L	21.0
68194-09-2	PCB-152	U	21	21	pg/L	21.0
35065-27-1	PCB-153/168	CU	42.1	42.1	pg/L	42.1
60145-22-4	PCB-154	U	21	21	pg/L	21.0
33979-03-2	PCB-155	U	21	21	pg/L	21.0
38380-08-4	PCB-156/157	C	149	146	pg/L	42.1
74472-42-7	PCB-158	U	21	21	pg/L	21.0
39635-35-3	PCB-159	U	21	21	pg/L	21.0
41411-62-5	PCB-160	U	21	21	pg/L	21.0
74472-43-8	PCB-161	U	21	21	pg/L	21.0
39635-34-2	PCB-162	U	21	21	pg/L	21.0
74472-45-0	PCB-164	U	21	21	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 11-3012
Lab Sample ID: 2600001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10985
Batch ID: 19408
Run Date: 08/22/2011 16:59
Data File: c22aug11a-7
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 950.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21	21	pg/L	21.0
52663-72-6	PCB-167		68.2	65.8	pg/L	21.0
32774-16-6	PCB-169	U	21	21	pg/L	21.0
35065-30-6	PCB-170		701	698	pg/L	21.0
52663-71-5	PCB-173/171	C	199	196	pg/L	42.1
52663-74-8	PCB-172		130	127	pg/L	21.0
38411-25-5	PCB-174		880	877	pg/L	21.0
40186-70-7	PCB-175		27.0	24.3	pg/L	21.0
52663-65-7	PCB-176		77.3	75.2	pg/L	21.0
52663-70-4	PCB-177		418	415	pg/L	21.0
52663-67-9	PCB-178		147	144	pg/L	21.0
52663-64-6	PCB-179		282	280	pg/L	21.0
35065-29-3	PCB-193/180	C	1710	1710	pg/L	42.1
74472-47-2	PCB-181	U	21	21	pg/L	21.0
60145-23-5	PCB-182	U	21	21	pg/L	21.0
52663-69-1	PCB-183/185	C	429	426	pg/L	42.1
74472-48-3	PCB-184	U	21	21	pg/L	21.0
74472-49-4	PCB-186	U	21	21	pg/L	21.0
52663-68-0	PCB-187		825	823	pg/L	21.0
74487-85-7	PCB-188	U	21	21	pg/L	21.0
39635-31-9	PCB-189		26.1	24.2	pg/L	21.0
41411-64-7	PCB-190		149	146	pg/L	21.0
74472-50-7	PCB-191		26.7	24.7	pg/L	21.0
74472-51-8	PCB-192	U	21	21	pg/L	21.0
35694-08-7	PCB-194	U	21	21	pg/L	21.0
52663-78-2	PCB-195	U	21	21	pg/L	21.0
42740-50-1	PCB-196	U	21	21	pg/L	21.0
33091-17-7	PCB-197/200	C	50.3	48.5	pg/L	42.1
68194-17-2	PCB-198/199	C	376	373	pg/L	42.1
40186-71-8	PCB-201		34.3	32.5	pg/L	21.0
2136-99-4	PCB-202		58.8	56.9	pg/L	21.0
52663-76-0	PCB-203	U	21	21	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3012	Client: LANL001	Project: LANL00109
Lab Sample ID: 2600001	Date Collected: 07/30/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/04/2011 09:40	
Client ID: WT_IPMOR-11-10985		Prep Basis: As Received
Batch ID: 19408	Method: EPA Method 1668A	
Run Date: 08/22/2011 16:59	Analyst: MJC	Instrument: HRP791
Data File: c22aug11a-7		Dilution: 1
Prep Batch: 19381	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 17-AUG-11	Aliquot: 950.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21	21	pg/L	21.0
74472-53-0	PCB-205	U	21	21	pg/L	21.0
40186-72-9	PCB-206		76.1	73.7	pg/L	21.0
52663-79-3	PCB-207	U	21	21	pg/L	21.0
52663-77-1	PCB-208	U	21	21	pg/L	21.0
2051-24-3	PCB-209	U	21	21	pg/L	21.0
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		276	260	pg/L	
25429-29-2	Total Penta PCBs		1580	1530	pg/L	
26601-64-9	Total Hexa PCBs		4930	4890	pg/L	
28655-71-2	Total Hepta PCBs		6030	5990	pg/L	
55722-26-4	Total Octa PCBs		519	511	pg/L	
53742-07-7	Total Nona PCBs		76.1	73.7	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		13400	13200	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		1040	2100	pg/L	49.3	(15%-150%)
13C-3-MoCB		1100	2100	pg/L	52.1	(15%-150%)
13C-4-DiCB		1140	2100	pg/L	54.2	(25%-150%)
13C-15-DiCB		1630	2100	pg/L	77.6	(25%-150%)
13C-19-TrCB		1660	2100	pg/L	79.0	(25%-150%)
13C-37-TrCB		1870	2100	pg/L	88.9	(25%-150%)
13C-54-TeCB		1050	2100	pg/L	50.0	(25%-150%)
13C-77-TeCB		1810	2100	pg/L	86.2	(25%-150%)
13C-81-TeCB		1780	2100	pg/L	84.4	(25%-150%)
13C-104-PeCB		1100	2100	pg/L	52.1	(25%-150%)
13C-105-PeCB		1510	2100	pg/L	71.6	(25%-150%)
13C-114-PeCB		1460	2100	pg/L	69.2	(25%-150%)
13C-118-PeCB		1440	2100	pg/L	68.6	(25%-150%)
13C-123-PeCB		1550	2100	pg/L	73.9	(25%-150%)
13C-126-PeCB		1520	2100	pg/L	72.3	(25%-150%)
13C-155-HxCB		1380	2100	pg/L	65.6	(25%-150%)
13C-156-HxCB	C	2730	4210	pg/L	64.9	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1320	2100	pg/L	62.7	(25%-150%)
13C-169-HxCB		1610	2100	pg/L	76.3	(25%-150%)
13C-188-HpCB		1170	2100	pg/L	55.6	(25%-150%)
13C-189-HpCB		1140	2100	pg/L	54.0	(25%-150%)
13C-202-OcCB		1190	2100	pg/L	56.7	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3012	Client: LANL001	Project: LANL00109
Lab Sample ID: 2600001	Date Collected: 07/30/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/04/2011 09:40	
Client ID: WT_IPMOR-11-10985		Prep Basis: As Received
Batch ID: 19408	Method: EPA Method 1668A	
Run Date: 08/22/2011 16:59	Analyst: MJC	Instrument: HRP791
Data File: c22aug11a-7		Dilution: 1
Prep Batch: 19381	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 17-AUG-11	Aliquot: 950.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1680	2100	pg/L	79.9 (25%-150%)
13C-206-NoCB			1610	2100	pg/L	76.4 (25%-150%)
13C-208-NoCB			1310	2100	pg/L	62.1 (25%-150%)
13C-209-DeCB			1130	2100	pg/L	53.7 (25%-150%)
13C-28-TrCB			1540	2100	pg/L	73.1 (30%-135%)
13C-111-PeCB			1810	2100	pg/L	86.0 (30%-135%)
13C-178-HpCB			1700	2100	pg/L	80.7 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3012
Lab Sample ID: 2600002
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-11029
Batch ID: 19408
Run Date: 08/22/2011 18:01
Data File: c22aug11a-8
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 932.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.4	21.4	pg/L	21.4
2051-61-8	PCB-2	U	21.4	21.4	pg/L	21.4
2051-62-9	PCB-3	U	21.4	21.4	pg/L	21.4
13029-08-8	PCB-4	U	107	107	pg/L	107
16605-91-7	PCB-5	U	21.4	21.4	pg/L	21.4
25569-80-6	PCB-6	U	21.4	21.4	pg/L	21.4
33284-50-3	PCB-7	U	21.4	21.4	pg/L	21.4
34883-43-7	PCB-8	U	21.4	21.4	pg/L	21.4
34883-39-1	PCB-9	U	21.4	21.4	pg/L	21.4
33146-45-1	PCB-10	U	107	107	pg/L	107
2050-67-1	PCB-11	B	123	116	pg/L	107
2974-92-7	PCB-13/12	CU	42.9	42.9	pg/L	42.9
34883-41-5	PCB-14	U	21.4	21.4	pg/L	21.4
2050-68-2	PCB-15	U	21.4	21.4	pg/L	21.4
38444-78-9	PCB-16	U	107	107	pg/L	107
37680-66-3	PCB-17	U	21.4	21.4	pg/L	21.4
37680-65-2	PCB-18/30	CU	42.9	42.9	pg/L	42.9
38444-73-4	PCB-19	U	21.4	21.4	pg/L	21.4
38444-84-7	PCB-20/28	CU	42.9	42.9	pg/L	42.9
55702-46-0	PCB-21/33	CU	42.9	42.9	pg/L	42.9
38444-85-8	PCB-22	U	21.4	21.4	pg/L	21.4
55720-44-0	PCB-23	U	21.4	21.4	pg/L	21.4
55702-45-9	PCB-24	U	21.4	21.4	pg/L	21.4
55712-37-3	PCB-25	U	21.4	21.4	pg/L	21.4
38444-81-4	PCB-26/29	CU	42.9	42.9	pg/L	42.9
38444-76-7	PCB-27	U	21.4	21.4	pg/L	21.4
16606-02-3	PCB-31	U	21.4	21.4	pg/L	21.4
38444-77-8	PCB-32	U	21.4	21.4	pg/L	21.4
37680-68-5	PCB-34	U	21.4	21.4	pg/L	21.4
37680-69-6	PCB-35	U	21.4	21.4	pg/L	21.4
38444-87-0	PCB-36	U	21.4	21.4	pg/L	21.4
38444-90-5	PCB-37	U	21.4	21.4	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3012
Lab Sample ID: 2600002
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-11029
Batch ID: 19408
Run Date: 08/22/2011 18:01
Data File: c22aug11a-8
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 932.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.4	21.4	pg/L	21.4
38444-88-1	PCB-39	U	21.4	21.4	pg/L	21.4
38444-93-8	PCB-40/71	CU	42.9	42.9	pg/L	42.9
52663-59-9	PCB-41	U	107	107	pg/L	107
36559-22-5	PCB-42	U	21.4	21.4	pg/L	21.4
70362-46-8	PCB-43	U	21.4	21.4	pg/L	21.4
41464-39-5	PCB-44/65/47	CU	64.3	64.3	pg/L	64.3
70362-45-7	PCB-45/51	CU	42.9	42.9	pg/L	42.9
41464-47-5	PCB-46	U	21.4	21.4	pg/L	21.4
70362-47-9	PCB-48	U	21.4	21.4	pg/L	21.4
41464-40-8	PCB-69/49	CU	42.9	42.9	pg/L	42.9
62796-65-0	PCB-50/53	CU	42.9	42.9	pg/L	42.9
35693-99-3	PCB-52		41.7	37.2	pg/L	21.4
15968-05-5	PCB-54	U	21.4	21.4	pg/L	21.4
74338-24-2	PCB-55	U	21.4	21.4	pg/L	21.4
41464-43-1	PCB-56	U	21.4	21.4	pg/L	21.4
70424-67-8	PCB-57	U	21.4	21.4	pg/L	21.4
41464-49-7	PCB-58	U	21.4	21.4	pg/L	21.4
74472-33-6	PCB-59/62/75	CU	64.3	64.3	pg/L	64.3
33025-41-1	PCB-60	U	21.4	21.4	pg/L	21.4
33284-53-6	PCB-61/76/70/74	CU	85.8	85.8	pg/L	85.8
74472-34-7	PCB-63	U	21.4	21.4	pg/L	21.4
52663-58-8	PCB-64	U	21.4	21.4	pg/L	21.4
32598-10-0	PCB-66	U	21.9	21.4	pg/L	21.4
73575-53-8	PCB-67	U	21.4	21.4	pg/L	21.4
73575-52-7	PCB-68	U	21.4	21.4	pg/L	21.4
41464-42-0	PCB-72	U	21.4	21.4	pg/L	21.4
74338-23-1	PCB-73	U	21.4	21.4	pg/L	21.4
32598-13-3	PCB-77	U	21.4	21.4	pg/L	21.4
70362-49-1	PCB-78	U	21.4	21.4	pg/L	21.4
41464-48-6	PCB-79	U	21.4	21.4	pg/L	21.4
33284-52-5	PCB-80	U	21.4	21.4	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3012
Lab Sample ID: 2600002
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-11029
Batch ID: 19408
Run Date: 08/22/2011 18:01
Data File: c22aug11a-8
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 932.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.4	21.4	pg/L	21.4
52663-62-4	PCB-82	U	21.4	21.4	pg/L	21.4
60145-20-2	PCB-83	U	21.4	21.4	pg/L	21.4
52663-60-2	PCB-84	U	22.0	21.4	pg/L	21.4
65510-45-4	PCB-117/116/85	CU	64.3	64.3	pg/L	64.3
55312-69-1	PCB-86/87/97/109/119/125	CU	129	129	pg/L	129
55215-17-3	PCB-88/91	CU	42.9	42.9	pg/L	42.9
73575-57-2	PCB-89	U	21.4	21.4	pg/L	21.4
68194-07-0	PCB-113/90/101	BC	104	100	pg/L	64.3
52663-61-3	PCB-92	U	21.4	21.4	pg/L	21.4
73575-56-1	PCB-93/100	CU	42.9	42.9	pg/L	42.9
73575-55-0	PCB-94	U	21.4	21.4	pg/L	21.4
38379-99-6	PCB-95	B	59.8	56.6	pg/L	21.4
73575-54-9	PCB-96	U	21.4	21.4	pg/L	21.4
60233-25-2	PCB-102/98	CU	42.9	42.9	pg/L	42.9
38380-01-7	PCB-99	U	107	107	pg/L	107
60145-21-3	PCB-103	U	21.4	21.4	pg/L	21.4
56558-16-8	PCB-104	U	21.4	21.4	pg/L	21.4
32598-14-4	PCB-105	U	107	107	pg/L	107
70424-69-0	PCB-106	U	21.4	21.4	pg/L	21.4
70424-68-9	PCB-107	U	21.4	21.4	pg/L	21.4
70362-41-3	PCB-108/124	CU	42.9	42.9	pg/L	42.9
38380-03-9	PCB-110/115	CU	42.9	42.9	pg/L	42.9
39635-32-0	PCB-111	U	21.4	21.4	pg/L	21.4
74472-36-9	PCB-112	U	21.4	21.4	pg/L	21.4
74472-37-0	PCB-114	U	21.4	21.4	pg/L	21.4
31508-00-6	PCB-118		77.0	73.6	pg/L	21.4
68194-12-7	PCB-120	U	21.4	21.4	pg/L	21.4
56558-18-0	PCB-121	U	21.4	21.4	pg/L	21.4
76842-07-4	PCB-122	U	21.4	21.4	pg/L	21.4
65510-44-3	PCB-123	U	107	107	pg/L	107
57465-28-8	PCB-126	U	21.4	21.4	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 4 of 7

SDG Number: 11-3012
Lab Sample ID: 2600002
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-11029
Batch ID: 19408
Run Date: 08/22/2011 18:01
Data File: c22aug11a-8
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 932.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.4	21.4	pg/L	21.4
38380-07-3	PCB-128/166	CU	42.9	42.9	pg/L	42.9
55215-18-4	PCB-138/163/129	C	251	246	pg/L	64.3
52663-66-8	PCB-130	U	21.4	21.4	pg/L	21.4
61798-70-7	PCB-131	U	21.4	21.4	pg/L	21.4
38380-05-1	PCB-132		68.5	63.1	pg/L	21.4
35694-04-3	PCB-133	U	21.4	21.4	pg/L	21.4
52704-70-8	PCB-134	U	107	107	pg/L	107
52744-13-5	PCB-151/135	C	82.0	79.3	pg/L	42.9
38411-22-2	PCB-136		24.6	22.7	pg/L	21.4
35694-06-5	PCB-137	U	21.4	21.4	pg/L	21.4
56030-56-9	PCB-139/140	CU	42.9	42.9	pg/L	42.9
52712-04-6	PCB-141		63.9	57.6	pg/L	21.4
41411-61-4	PCB-142	U	21.4	21.4	pg/L	21.4
68194-15-0	PCB-143	U	21.4	21.4	pg/L	21.4
68194-14-9	PCB-144	U	21.4	21.4	pg/L	21.4
74472-40-5	PCB-145	U	21.4	21.4	pg/L	21.4
51908-16-8	PCB-146		44.7	39.1	pg/L	21.4
68194-13-8	PCB-147/149	C	198	191	pg/L	42.9
74472-41-6	PCB-148	U	21.4	21.4	pg/L	21.4
68194-08-1	PCB-150	U	21.4	21.4	pg/L	21.4
68194-09-2	PCB-152	U	21.4	21.4	pg/L	21.4
35065-27-1	PCB-153/168	C	198	192	pg/L	42.9
60145-22-4	PCB-154	U	21.4	21.4	pg/L	21.4
33979-03-2	PCB-155	U	21.4	21.4	pg/L	21.4
38380-08-4	PCB-156/157	CU	42.9	42.9	pg/L	42.9
74472-42-7	PCB-158		27.2	23	pg/L	21.4
39635-35-3	PCB-159	U	21.4	21.4	pg/L	21.4
41411-62-5	PCB-160	U	21.4	21.4	pg/L	21.4
74472-43-8	PCB-161	U	21.4	21.4	pg/L	21.4
39635-34-2	PCB-162	U	21.4	21.4	pg/L	21.4
74472-45-0	PCB-164	U	22.9	21.4	pg/L	21.4

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3012
 Lab Sample ID: 2600002
 Client Sample: 1668A Water
 Client ID: WT_IPMOR-11-11029
 Batch ID: 19408
 Run Date: 08/22/2011 18:01
 Data File: c22aug11a-8
 Prep Batch: 19381
 Prep Date: 17-AUG-11

Client: LANL001
 Date Collected: 07/30/2011 12:00
 Date Received: 08/04/2011 09:40
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 932.9 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.4	21.4	pg/L	21.4
52663-72-6	PCB-167	U	21.4	21.4	pg/L	21.4
32774-16-6	PCB-169	U	21.4	21.4	pg/L	21.4
35065-30-6	PCB-170		101	98.6	pg/L	21.4
52663-71-5	PCB-173/171	CU	42.9	42.9	pg/L	42.9
52663-74-8	PCB-172	U	21.4	21.4	pg/L	21.4
38411-25-5	PCB-174		114	111	pg/L	21.4
40186-70-7	PCB-175	U	21.4	21.4	pg/L	21.4
52663-65-7	PCB-176	U	21.4	21.4	pg/L	21.4
52663-70-4	PCB-177		59.5	56.5	pg/L	21.4
52663-67-9	PCB-178	U	21.5	21.4	pg/L	21.4
52663-64-6	PCB-179		34.9	32.7	pg/L	21.4
35065-29-3	PCB-193/180	C	244	240	pg/L	42.9
74472-47-2	PCB-181	U	21.4	21.4	pg/L	21.4
60145-23-5	PCB-182	U	21.4	21.4	pg/L	21.4
52663-69-1	PCB-183/185	C	58.8	56	pg/L	42.9
74472-48-3	PCB-184	U	21.4	21.4	pg/L	21.4
74472-49-4	PCB-186	U	21.4	21.4	pg/L	21.4
52663-68-0	PCB-187		116	114	pg/L	21.4
74487-85-7	PCB-188	U	21.4	21.4	pg/L	21.4
39635-31-9	PCB-189	U	21.4	21.4	pg/L	21.4
41411-64-7	PCB-190	U	22.5	21.4	pg/L	21.4
74472-50-7	PCB-191	U	21.4	21.4	pg/L	21.4
74472-51-8	PCB-192	U	21.4	21.4	pg/L	21.4
35694-08-7	PCB-194		50.6	48.5	pg/L	21.4
52663-78-2	PCB-195	U	21.4	21.4	pg/L	21.4
42740-50-1	PCB-196		25.6	23.3	pg/L	21.4
33091-17-7	PCB-197/200	CU	42.9	42.9	pg/L	42.9
68194-17-2	PCB-198/199	C	54.5	52.2	pg/L	42.9
40186-71-8	PCB-201	U	21.4	21.4	pg/L	21.4
2136-99-4	PCB-202	U	21.4	21.4	pg/L	21.4
52663-76-0	PCB-203		28.8	26.7	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3012
Lab Sample ID: 2600002
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-11029
Batch ID: 19408
Run Date: 08/22/2011 18:01
Data File: c22aug11a-8
Prep Batch: 19381
Prep Date: 17-AUG-11

Client: LANL001
Date Collected: 07/30/2011 12:00
Date Received: 08/04/2011 09:40

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 932.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.4	21.4	pg/L	21.4
74472-53-0	PCB-205	U	21.4	21.4	pg/L	21.4
40186-72-9	PCB-206	U	21.4	21.4	pg/L	21.4
52663-79-3	PCB-207	U	21.4	21.4	pg/L	21.4
52663-77-1	PCB-208	U	21.4	21.4	pg/L	21.4
2051-24-3	PCB-209	U	21.4	21.4	pg/L	21.4
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		21.9	37.2	pg/L	
25429-29-2	Total Penta PCBs		98.9	73.6	pg/L	
26601-64-9	Total Hexa PCBs		981	914	pg/L	
28655-71-2	Total Hepta PCBs		773	709	pg/L	
55722-26-4	Total Octa PCBs		159	151	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		2030	1880	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery %	Acceptable Limits
13C-1-MoCB		1220	2140	pg/L	56.8	(15%-150%)
13C-3-MoCB		1200	2140	pg/L	56.0	(15%-150%)
13C-4-DiCB		1300	2140	pg/L	60.5	(25%-150%)
13C-15-DiCB		1780	2140	pg/L	83.2	(25%-150%)
13C-19-TrCB		1840	2140	pg/L	86.0	(25%-150%)
13C-37-TrCB		1790	2140	pg/L	83.6	(25%-150%)
13C-54-TeCB		957	2140	pg/L	44.7	(25%-150%)
13C-77-TeCB		1760	2140	pg/L	82.0	(25%-150%)
13C-81-TeCB		1740	2140	pg/L	81.1	(25%-150%)
13C-104-PeCB		1100	2140	pg/L	51.4	(25%-150%)
13C-105-PeCB		1470	2140	pg/L	68.4	(25%-150%)
13C-114-PeCB		1410	2140	pg/L	65.7	(25%-150%)
13C-118-PeCB		1410	2140	pg/L	65.8	(25%-150%)
13C-123-PeCB		1490	2140	pg/L	69.6	(25%-150%)
13C-126-PeCB		1470	2140	pg/L	68.7	(25%-150%)
13C-155-HxCB		1350	2140	pg/L	63.2	(25%-150%)
13C-156-HxCB	C	2600	4290	pg/L	60.6	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1270	2140	pg/L	59.0	(25%-150%)
13C-169-HxCB		1490	2140	pg/L	69.5	(25%-150%)
13C-188-HpCB		1190	2140	pg/L	55.7	(25%-150%)
13C-189-HpCB		1100	2140	pg/L	51.1	(25%-150%)
13C-202-OcCB		1230	2140	pg/L	57.5	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3012	Client: LANL001	Project: LANL00109
Lab Sample ID: 2600002	Date Collected: 07/30/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/04/2011 09:40	
Client ID: WT_IPMOR-11-11029		Prep Basis: As Received
Batch ID: 19408	Method: EPA Method 1668A	
Run Date: 08/22/2011 18:01	Analyst: MJC	Instrument: HRP791
Data File: c22aug11a-8		Dilution: 1
Prep Batch: 19381	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 17-AUG-11	Aliquot: 932.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1620	2140	pg/L	75.6 (25%-150%)
13C-206-NoCB			1560	2140	pg/L	72.9 (25%-150%)
13C-208-NoCB			1310	2140	pg/L	61.0 (25%-150%)
13C-209-DeCB			1100	2140	pg/L	51.5 (25%-150%)
13C-28-TrCB			1460	2140	pg/L	68.1 (30%-135%)
13C-111-PeCB			1740	2140	pg/L	81.1 (30%-135%)
13C-178-HpCB			1670	2140	pg/L	78.0 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.51	0.953	3.41	
3-Chlorobiphenyl (2)	pg/L	1.7	1.1	3.9	
4-Chlorobiphenyl (3)	pg/L	1.45	0.874	3.2	
2,2'-Dichlorobiphenyl (4)	pg/L	4.77	3.22	11.2	
2,3-Dichlorobiphenyl (5)	pg/L	2.96	1.82	6.6	
2,3'-Dichlorobiphenyl (6)	pg/L	2.59	1.6	5.79	
2,4-Dichlorobiphenyl (7)	pg/L	2.48	1.53	5.54	
2,4'-Dichlorobiphenyl (8)	pg/L	2.57	1.5	5.56	
2,5-Dichlorobiphenyl (9)	pg/L	2.67	1.69	6.06	
2,6-Dichlorobiphenyl (10)	pg/L	2.55	2.03	6.6	
3,3'-Dichlorobiphenyl (11)	pg/L	3.32	1.83	6.98	
3,4-Dichlorobiphenyl (12)	pg/L	4.48	2.4	9.27	
3,5-Dichlorobiphenyl (14)	pg/L	2.99	1.69	6.37	
4,4'-Dichlorobiphenyl (15)	pg/L	3.05	1.94	6.93	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.75	1.29	4.32	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.74	1.26	4.27	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.33	0.886	3.1	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.65	1.14	3.94	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.2	0.745	2.69	
2,3,4-Trichlorobiphenyl (21)	pg/L	1.29	0.674	2.64	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1.15	0.723	2.59	
2,3,5-Trichlorobiphenyl (23)	pg/L	1.06	0.687	2.43	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.01	0.696	2.4	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.987	0.608	2.2	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.41	0.727	2.87	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.03	0.745	2.52	
2,4',5-Trichlorobiphenyl (31)	pg/L	1.57	1.62	4.81	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.982	0.68	2.34	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.1	0.729	2.55	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.58	0.892	3.36	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.33	0.737	2.8	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.32	0.83	2.98	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.43	0.812	3.06	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.3	0.731	2.76	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.01	1.29	4.59	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.26	1.54	5.33	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.03	1.35	4.74	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.52	1.85	6.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.27	1.27	4.8	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.02	0.468	1.96	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.08	0.691	2.46	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.89	1.26	4.41	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.8	1.07	3.95	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.887	0.456	1.8	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.86	1.29	4.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.618	0.372	1.36	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.45	0.885	3.22	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.69	0.936	3.56	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.38	0.835	3.05	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.34	0.789	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.86	0.996	3.85	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.48	0.801	3.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	2.26	1.07	4.39	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.35	0.792	2.93	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.46	0.927	3.31	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.4	0.837	3.08	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.55	0.919	3.38	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.36	0.831	3.02	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.28	0.776	2.83	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.4	0.922	3.24	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.56	0.968	3.49	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.6	0.927	3.45	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.36	0.751	2.86	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.55	0.895	3.34	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.47	0.907	3.28	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.87	0.989	3.85	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.81	0.989	3.79	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	2.09	1.18	4.45	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.85	0.836	3.52	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	2.66	2.7	8.06	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	2.11	0.971	4.05	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.65	0.929	3.51	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.78	0.818	3.42	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.59	0.889	3.37	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.61	0.943	3.49	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.57	0.924	3.41	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.879	3.25	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.6	0.41	1.42	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	2.01	0.927	3.87	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.34	0.77	2.88	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.38	0.804	2.99	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.615	0.367	1.35	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.55	0.92	3.39	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.47	0.909	3.29	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.59	0.917	3.42	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.52	0.859	3.23	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.79	3.99	13.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.16	0.623	2.4	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.42	0.788	3	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.58	0.951	3.48	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.53	0.949	3.43	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	1.16	0.625	2.41	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.13	0.639	2.41	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.54	0.898	3.33	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.42	0.923	3.27	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.73	1.03	3.79	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.52	0.913	3.35	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.8	1.31	4.42	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	2.07	1.38	4.83	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	2.3	1.76	5.82	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	2.25	1.7	5.65	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	2.16	1.63	5.41	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	2.15	1.68	5.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	2.36	1.86	6.08	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.32	0.687	2.7	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.784	0.543	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.95	1.43	4.81	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	2.13	1.55	5.22	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	2.48	1.93	6.33	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	2.28	1.76	5.8	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	2.09	1.65	5.38	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.02	0.687	2.4	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.771	0.532	1.84	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	2.34	1.59	5.51	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	2.73	2.51	7.76	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1	0.649	2.3	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.74	0.517	1.77	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.727	0.543	1.81	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	2.25	1.77	5.79	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.03	0.752	2.53	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.648	0.399	1.45	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.37	0.799	2.97	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.66	1.27	4.19	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.01	0.636	2.28	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.57	1.25	4.07	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.53	1.23	4	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.951	0.605	2.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.9	1.47	4.84	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.67	1.27	4.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.15	0.653	2.46	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.16	0.598	2.36	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.34	0.731	2.8	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.62	0.794	3.21	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.33	0.806	2.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.48	0.935	3.35	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.06	0.816	2.69	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.847	0.659	2.16	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.35	0.836	3.02	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.13	0.878	2.89	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.835	0.659	2.15	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.72	1.07	3.85	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.2	0.721	2.64	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.27	0.983	3.23	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.47	0.636	2.74	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.78	0.618	2.02	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.832	0.653	2.14	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	1.02	0.734	2.49	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.78	0.584	1.95	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.933	0.495	1.92	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	1.02	0.543	2.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.988	0.548	2.09	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1	0.579	2.16	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.995	0.573	2.14	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.08	0.611	2.31	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.939	0.645	2.23	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.89	0.436	1.76	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.14	0.59	2.32	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.741	0.528	1.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.777	0.527	1.83	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.866	0.591	2.05	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.74	0.522	1.78	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.895	0.512	1.92	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.14	0.619	2.38	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.923	0.542	2.01	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.934	0.559	2.05	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.941	0.511	1.96	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3052
Lab Sample ID: 2614001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10674
Batch ID: 19491
Run Date: 09/02/2011 14:31
Data File: c02sep11a-6
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/06/2011 10:41

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 512.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	39	39	pg/L	39.0
2051-61-8	PCB-2	U	39	39	pg/L	39.0
2051-62-9	PCB-3	U	39	39	pg/L	39.0
13029-08-8	PCB-4	U	195	195	pg/L	195
16605-91-7	PCB-5	U	39	39	pg/L	39.0
25569-80-6	PCB-6	U	39	39	pg/L	39.0
33284-50-3	PCB-7	U	39	39	pg/L	39.0
34883-43-7	PCB-8	U	44.6	39	pg/L	39.0
34883-39-1	PCB-9	U	39	39	pg/L	39.0
33146-45-1	PCB-10	U	195	195	pg/L	195
2050-67-1	PCB-11		263	256	pg/L	195
2974-92-7	PCB-13/12	CU	78	78	pg/L	78.0
34883-41-5	PCB-14	U	39	39	pg/L	39.0
2050-68-2	PCB-15		64.5	57.5	pg/L	39.0
38444-78-9	PCB-16	U	195	195	pg/L	195
37680-66-3	PCB-17		45.2	40.9	pg/L	39.0
37680-65-2	PCB-18/30	C	96.8	93.7	pg/L	78.0
38444-73-4	PCB-19	U	39	39	pg/L	39.0
38444-84-7	PCB-20/28	C	230	227	pg/L	78.0
55702-46-0	PCB-21/33	C	81.3	78.7	pg/L	78.0
38444-85-8	PCB-22		71.7	69.1	pg/L	39.0
55720-44-0	PCB-23	U	39	39	pg/L	39.0
55702-45-9	PCB-24	U	39	39	pg/L	39.0
55712-37-3	PCB-25	U	39	39	pg/L	39.0
38444-81-4	PCB-26/29	CU	78	78	pg/L	78.0
38444-76-7	PCB-27	U	39	39	pg/L	39.0
16606-02-3	PCB-31		158	153	pg/L	39.0
38444-77-8	PCB-32	U	39	39	pg/L	39.0
37680-68-5	PCB-34	U	39	39	pg/L	39.0
37680-69-6	PCB-35	U	39	39	pg/L	39.0
38444-87-0	PCB-36	U	39	39	pg/L	39.0
38444-90-5	PCB-37		104	101	pg/L	39.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3052
 Lab Sample ID: 2614001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10674
 Batch ID: 19491
 Run Date: 09/02/2011 14:31
 Data File: c02sep11a-6
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 07/28/2011 12:00
 Date Received: 08/06/2011 10:41
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 512.5 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	39	39	pg/L	39.0
38444-88-1	PCB-39	U	39	39	pg/L	39.0
38444-93-8	PCB-40/71	C	171	166	pg/L	78.0
52663-59-9	PCB-41	U	195	195	pg/L	195
36559-22-5	PCB-42		87.6	82.8	pg/L	39.0
70362-46-8	PCB-43	U	39	39	pg/L	39.0
41464-39-5	PCB-44/65/47	CU	117	117	pg/L	117
70362-45-7	PCB-45/51	CU	78	78	pg/L	78.0
41464-47-5	PCB-46	U	39	39	pg/L	39.0
70362-47-9	PCB-48		45.5	41.1	pg/L	39.0
41464-40-8	PCB-69/49	C	327	323	pg/L	78.0
62796-65-0	PCB-50/53	CU	78	78	pg/L	78.0
35693-99-3	PCB-52		1490	1490	pg/L	39.0
15968-05-5	PCB-54	U	39	39	pg/L	39.0
74338-24-2	PCB-55	U	39	39	pg/L	39.0
41464-43-1	PCB-56		337	333	pg/L	39.0
70424-67-8	PCB-57	U	39	39	pg/L	39.0
41464-49-7	PCB-58	U	39	39	pg/L	39.0
74472-33-6	PCB-59/62/75	CU	117	117	pg/L	117
33025-41-1	PCB-60		121	118	pg/L	39.0
33284-53-6	PCB-61/76/70/74	C	1660	1660	pg/L	156
74472-34-7	PCB-63	U	39	39	pg/L	39.0
52663-58-8	PCB-64		218	215	pg/L	39.0
32598-10-0	PCB-66		588	585	pg/L	39.0
73575-53-8	PCB-67	U	39	39	pg/L	39.0
73575-52-7	PCB-68	U	39	39	pg/L	39.0
41464-42-0	PCB-72	U	39	39	pg/L	39.0
74338-23-1	PCB-73	U	39	39	pg/L	39.0
32598-13-3	PCB-77		258	255	pg/L	39.0
70362-49-1	PCB-78	U	39	39	pg/L	39.0
41464-48-6	PCB-79	U	39	39	pg/L	39.0
33284-52-5	PCB-80	U	39	39	pg/L	39.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3052
Lab Sample ID: 2614001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10674
Batch ID: 19491
Run Date: 09/02/2011 14:31
Data File: c02sep11a-6
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/06/2011 10:41

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 512.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	39	39	pg/L	39.0
52663-62-4	PCB-82		540	536	pg/L	39.0
60145-20-2	PCB-83		301	297	pg/L	39.0
52663-60-2	PCB-84		1320	1320	pg/L	39.0
65510-45-4	PCB-117/116/85	C	829	826	pg/L	117
55312-69-1	PCB-86/87/97/109/119/125	C	3980	3970	pg/L	234
55215-17-3	PCB-88/91	C	498	494	pg/L	78.0
73575-57-2	PCB-89	U	39	39	pg/L	39.0
68194-07-0	PCB-113/90/101	C	7600	7600	pg/L	117
52663-61-3	PCB-92		1170	1170	pg/L	39.0
73575-56-1	PCB-93/100	CU	78	78	pg/L	78.0
73575-55-0	PCB-94	U	39	39	pg/L	39.0
38379-99-6	PCB-95		4730	4720	pg/L	39.0
73575-54-9	PCB-96	U	39	39	pg/L	39.0
60233-25-2	PCB-102/98	C	84.4	80.5	pg/L	78.0
38380-01-7	PCB-99		1980	1970	pg/L	195
60145-21-3	PCB-103	U	39	39	pg/L	39.0
56558-16-8	PCB-104	U	39	39	pg/L	39.0
32598-14-4	PCB-105		2290	2290	pg/L	195
70424-69-0	PCB-106	U	39	39	pg/L	39.0
70424-68-9	PCB-107		468	465	pg/L	39.0
70362-41-3	PCB-108/124	C	254	250	pg/L	78.0
38380-03-9	PCB-110/115	CU	78	78	pg/L	78.0
39635-32-0	PCB-111	U	39	39	pg/L	39.0
74472-36-9	PCB-112	U	39	39	pg/L	39.0
74472-37-0	PCB-114		84.0	80.5	pg/L	39.0
31508-00-6	PCB-118		6340	6340	pg/L	39.0
68194-12-7	PCB-120	U	39	39	pg/L	39.0
56558-18-0	PCB-121	U	39	39	pg/L	39.0
76842-07-4	PCB-122		59.3	55.9	pg/L	39.0
65510-44-3	PCB-123	U	195	195	pg/L	195
57465-28-8	PCB-126		100	96.4	pg/L	39.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 4 of 7

SDG Number: 11-3052
Lab Sample ID: 2614001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10674
Batch ID: 19491
Run Date: 09/02/2011 14:31
Data File: c02sep11a-6
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/06/2011 10:41

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 512.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	39	39	pg/L	39.0
38380-07-3	PCB-128/166	C	2080	2080	pg/L	78.0
55215-18-4	PCB-138/163/129	C	21400	21400	pg/L	117
52663-66-8	PCB-130		956	951	pg/L	39.0
61798-70-7	PCB-131		164	158	pg/L	39.0
38380-05-1	PCB-132		5690	5690	pg/L	39.0
35694-04-3	PCB-133		229	223	pg/L	39.0
52704-70-8	PCB-134		916	910	pg/L	195
52744-13-5	PCB-151/135	C	6530	6530	pg/L	78.0
38411-22-2	PCB-136		1970	1970	pg/L	39.0
35694-06-5	PCB-137		398	393	pg/L	39.0
56030-56-9	PCB-139/140	C	172	167	pg/L	78.0
52712-04-6	PCB-141		5680	5670	pg/L	39.0
41411-61-4	PCB-142	U	39	39	pg/L	39.0
68194-15-0	PCB-143	U	39	39	pg/L	39.0
68194-14-9	PCB-144		909	907	pg/L	39.0
74472-40-5	PCB-145	U	39	39	pg/L	39.0
51908-16-8	PCB-146		2980	2980	pg/L	39.0
68194-13-8	PCB-147/149	C	17600	17600	pg/L	78.0
74472-41-6	PCB-148	U	39	39	pg/L	39.0
68194-08-1	PCB-150	U	39	39	pg/L	39.0
68194-09-2	PCB-152	U	39	39	pg/L	39.0
35065-27-1	PCB-153/168	C	17500	17500	pg/L	78.0
60145-22-4	PCB-154		103	100	pg/L	39.0
33979-03-2	PCB-155	U	39	39	pg/L	39.0
38380-08-4	PCB-156/157	C	1970	1970	pg/L	78.0
74472-42-7	PCB-158		2080	2080	pg/L	39.0
39635-35-3	PCB-159	U	39	39	pg/L	39.0
41411-62-5	PCB-160	U	39	39	pg/L	39.0
74472-43-8	PCB-161	U	39	39	pg/L	39.0
39635-34-2	PCB-162	U	39	39	pg/L	39.0
74472-45-0	PCB-164		1850	1840	pg/L	39.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 5 of 7

SDG Number: 11-3052
Lab Sample ID: 2614001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10674
Batch ID: 19491
Run Date: 09/02/2011 14:31
Data File: c02sep11a-6
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/06/2011 10:41

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 512.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	39	39	pg/L	39.0
52663-72-6	PCB-167		838	835	pg/L	39.0
32774-16-6	PCB-169	U	39	39	pg/L	39.0
35065-30-6	PCB-170		7420	7420	pg/L	39.0
52663-71-5	PCB-173/171	C	2340	2340	pg/L	78.0
52663-74-8	PCB-172		1410	1410	pg/L	39.0
38411-25-5	PCB-174		9880	9880	pg/L	39.0
40186-70-7	PCB-175		294	291	pg/L	39.0
52663-65-7	PCB-176		869	866	pg/L	39.0
52663-70-4	PCB-177		4650	4640	pg/L	39.0
52663-67-9	PCB-178		1530	1530	pg/L	39.0
52663-64-6	PCB-179		2910	2910	pg/L	39.0
35065-29-3	PCB-193/180	CU	78	78	pg/L	78.0
74472-47-2	PCB-181	U	39	39	pg/L	39.0
60145-23-5	PCB-182	U	39	39	pg/L	39.0
52663-69-1	PCB-183/185	C	5070	5070	pg/L	78.0
74472-48-3	PCB-184	U	39	39	pg/L	39.0
74472-49-4	PCB-186	U	39	39	pg/L	39.0
52663-68-0	PCB-187		8780	8780	pg/L	39.0
74487-85-7	PCB-188	U	39	39	pg/L	39.0
39635-31-9	PCB-189		340	338	pg/L	39.0
41411-64-7	PCB-190		1590	1590	pg/L	39.0
74472-50-7	PCB-191		292	290	pg/L	39.0
74472-51-8	PCB-192	U	39	39	pg/L	39.0
35694-08-7	PCB-194		3630	3630	pg/L	39.0
52663-78-2	PCB-195		1510	1510	pg/L	39.0
42740-50-1	PCB-196		1780	1780	pg/L	39.0
33091-17-7	PCB-197/200	CU	78	78	pg/L	78.0
68194-17-2	PCB-198/199	C	3740	3740	pg/L	78.0
40186-71-8	PCB-201		392	390	pg/L	39.0
2136-99-4	PCB-202		596	594	pg/L	39.0
52663-76-0	PCB-203		2150	2150	pg/L	39.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3052
Lab Sample ID: 2614001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10674
Batch ID: 19491
Run Date: 09/02/2011 14:31
Data File: c02sep11a-6
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 07/28/2011 12:00
Date Received: 08/06/2011 10:41

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 512.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	39	39	pg/L	39.0
74472-53-0	PCB-205		197	195	pg/L	39.0
40186-72-9	PCB-206		720	717	pg/L	39.0
52663-79-3	PCB-207		83.6	81.6	pg/L	39.0
52663-77-1	PCB-208		132	130	pg/L	39.0
2051-24-3	PCB-209	U	39	39	pg/L	39.0
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		372	314	pg/L	
25323-68-6	Total Tri PCBs		786	763	pg/L	
26914-33-0	Total Tetra PCBs		5310	5260	pg/L	
25429-29-2	Total Penta PCBs		32600	32600	pg/L	
26601-64-9	Total Hexa PCBs		92000	91900	pg/L	
28655-71-2	Total Hepta PCBs		47400	47400	pg/L	
55722-26-4	Total Octa PCBs		14000	14000	pg/L	
53742-07-7	Total Nona PCBs		936	929	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		193000	193000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		2420	3900	pg/L	62.0	(15%-150%)
13C-3-MoCB		2740	3900	pg/L	70.2	(15%-150%)
13C-4-DiCB		2690	3900	pg/L	69.0	(25%-150%)
13C-15-DiCB		3320	3900	pg/L	85.2	(25%-150%)
13C-19-TrCB		3270	3900	pg/L	83.9	(25%-150%)
13C-37-TrCB		3700	3900	pg/L	94.7	(25%-150%)
13C-54-TeCB		3360	3900	pg/L	86.0	(25%-150%)
13C-77-TeCB		3640	3900	pg/L	93.2	(25%-150%)
13C-81-TeCB		3640	3900	pg/L	93.2	(25%-150%)
13C-104-PeCB		3450	3900	pg/L	88.3	(25%-150%)
13C-105-PeCB		3410	3900	pg/L	87.3	(25%-150%)
13C-114-PeCB		3310	3900	pg/L	84.8	(25%-150%)
13C-118-PeCB		3380	3900	pg/L	86.7	(25%-150%)
13C-123-PeCB		3600	3900	pg/L	92.3	(25%-150%)
13C-126-PeCB		3340	3900	pg/L	85.5	(25%-150%)
13C-155-HxCB		3540	3900	pg/L	90.8	(25%-150%)
13C-156-HxCB	C	6400	7800	pg/L	82.0	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		3140	3900	pg/L	80.6	(25%-150%)
13C-169-HxCB		3450	3900	pg/L	88.5	(25%-150%)
13C-188-HpCB		2950	3900	pg/L	75.5	(25%-150%)
13C-189-HpCB		2830	3900	pg/L	72.6	(25%-150%)
13C-202-OcCB		2850	3900	pg/L	73.1	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3052	Client: LANL001	Project: LANL00109
Lab Sample ID: 2614001	Date Collected: 07/28/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/06/2011 10:41	
Client ID: WT_IPSAN-11-10674		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 14:31	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-6		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 512.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			3480	3900	pg/L	89.2 (25%-150%)
13C-206-NoCB			3600	3900	pg/L	92.3 (25%-150%)
13C-208-NoCB			3000	3900	pg/L	77.0 (25%-150%)
13C-209-DeCB			2980	3900	pg/L	76.5 (25%-150%)
13C-28-TrCB			3360	3900	pg/L	86.2 (30%-135%)
13C-111-PeCB			3610	3900	pg/L	92.6 (30%-135%)
13C-178-HpCB			3860	3900	pg/L	98.8 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.51	0.953	3.41	
3-Chlorobiphenyl (2)	pg/L	1.7	1.1	3.9	
4-Chlorobiphenyl (3)	pg/L	1.45	0.874	3.2	
2,2'-Dichlorobiphenyl (4)	pg/L	4.77	3.22	11.2	
2,3-Dichlorobiphenyl (5)	pg/L	2.96	1.82	6.6	
2,3'-Dichlorobiphenyl (6)	pg/L	2.59	1.6	5.79	
2,4-Dichlorobiphenyl (7)	pg/L	2.48	1.53	5.54	
2,4'-Dichlorobiphenyl (8)	pg/L	2.57	1.5	5.56	
2,5-Dichlorobiphenyl (9)	pg/L	2.67	1.69	6.06	
2,6-Dichlorobiphenyl (10)	pg/L	2.55	2.03	6.6	
3,3'-Dichlorobiphenyl (11)	pg/L	3.32	1.83	6.98	
3,4-Dichlorobiphenyl (12)	pg/L	4.48	2.4	9.27	
3,5-Dichlorobiphenyl (14)	pg/L	2.99	1.69	6.37	
4,4'-Dichlorobiphenyl (15)	pg/L	3.05	1.94	6.93	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.75	1.29	4.32	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.74	1.26	4.27	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.33	0.886	3.1	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.65	1.14	3.94	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.2	0.745	2.69	
2,3,4-Trichlorobiphenyl (21)	pg/L	1.29	0.674	2.64	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1.15	0.723	2.59	
2,3,5-Trichlorobiphenyl (23)	pg/L	1.06	0.687	2.43	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.01	0.696	2.4	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.987	0.608	2.2	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.41	0.727	2.87	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.03	0.745	2.52	
2,4',5-Trichlorobiphenyl (31)	pg/L	1.57	1.62	4.81	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.982	0.68	2.34	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.1	0.729	2.55	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.58	0.892	3.36	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.33	0.737	2.8	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.32	0.83	2.98	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.43	0.812	3.06	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.3	0.731	2.76	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.01	1.29	4.59	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.26	1.54	5.33	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.03	1.35	4.74	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.52	1.85	6.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.27	1.27	4.8	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.02	0.468	1.96	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.08	0.691	2.46	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.89	1.26	4.41	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.8	1.07	3.95	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.887	0.456	1.8	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.86	1.29	4.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.618	0.372	1.36	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.45	0.885	3.22	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.69	0.936	3.56	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.38	0.835	3.05	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.34	0.789	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.86	0.996	3.85	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.48	0.801	3.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	2.26	1.07	4.39	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.35	0.792	2.93	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.46	0.927	3.31	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.4	0.837	3.08	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.55	0.919	3.38	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.36	0.831	3.02	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.28	0.776	2.83	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.4	0.922	3.24	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.56	0.968	3.49	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.6	0.927	3.45	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.36	0.751	2.86	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.55	0.895	3.34	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.47	0.907	3.28	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.87	0.989	3.85	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.81	0.989	3.79	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	2.09	1.18	4.45	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.85	0.836	3.52	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	2.66	2.7	8.06	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	2.11	0.971	4.05	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.65	0.929	3.51	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.78	0.818	3.42	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.59	0.889	3.37	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.61	0.943	3.49	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.57	0.924	3.41	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.879	3.25	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.6	0.41	1.42	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	2.01	0.927	3.87	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.34	0.77	2.88	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.38	0.804	2.99	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.615	0.367	1.35	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.55	0.92	3.39	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.47	0.909	3.29	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.59	0.917	3.42	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.52	0.859	3.23	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.79	3.99	13.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.16	0.623	2.4	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.42	0.788	3	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.58	0.951	3.48	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.53	0.949	3.43	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	1.16	0.625	2.41	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.13	0.639	2.41	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.54	0.898	3.33	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.42	0.923	3.27	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.73	1.03	3.79	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.52	0.913	3.35	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.8	1.31	4.42	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	2.07	1.38	4.83	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	2.3	1.76	5.82	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	2.25	1.7	5.65	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	2.16	1.63	5.41	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	2.15	1.68	5.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	2.36	1.86	6.08	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.32	0.687	2.7	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.784	0.543	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.95	1.43	4.81	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	2.13	1.55	5.22	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	2.48	1.93	6.33	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	2.28	1.76	5.8	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	2.09	1.65	5.38	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.02	0.687	2.4	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.771	0.532	1.84	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	2.34	1.59	5.51	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	2.73	2.51	7.76	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1	0.649	2.3	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.74	0.517	1.77	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.727	0.543	1.81	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	2.25	1.77	5.79	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.03	0.752	2.53	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.648	0.399	1.45	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.37	0.799	2.97	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.66	1.27	4.19	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.01	0.636	2.28	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.57	1.25	4.07	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.53	1.23	4	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.951	0.605	2.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.9	1.47	4.84	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.67	1.27	4.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.15	0.653	2.46	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.16	0.598	2.36	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.34	0.731	2.8	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.62	0.794	3.21	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.33	0.806	2.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.48	0.935	3.35	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.06	0.816	2.69	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.847	0.659	2.16	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.35	0.836	3.02	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.13	0.878	2.89	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.835	0.659	2.15	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.72	1.07	3.85	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.2	0.721	2.64	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.27	0.983	3.23	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.47	0.636	2.74	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.78	0.618	2.02	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.832	0.653	2.14	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	1.02	0.734	2.49	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.78	0.584	1.95	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.933	0.495	1.92	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	1.02	0.543	2.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.988	0.548	2.09	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1	0.579	2.16	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.995	0.573	2.14	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.08	0.611	2.31	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.939	0.645	2.23	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.89	0.436	1.76	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.14	0.59	2.32	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.741	0.528	1.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.777	0.527	1.83	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.866	0.591	2.05	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.74	0.522	1.78	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.895	0.512	1.92	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.14	0.619	2.38	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.923	0.542	2.01	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.934	0.559	2.05	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.941	0.511	1.96	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3089
 Lab Sample ID: 2628001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10622
 Batch ID: 19491
 Run Date: 09/02/2011 17:48
 Data File: c02sep11a-9
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 08/05/2011 12:00
 Date Received: 08/10/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 935.9 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.4	21.4	pg/L	21.4
2051-61-8	PCB-2	U	21.4	21.4	pg/L	21.4
2051-62-9	PCB-3	U	21.4	21.4	pg/L	21.4
13029-08-8	PCB-4	U	107	107	pg/L	107
16605-91-7	PCB-5	U	21.4	21.4	pg/L	21.4
25569-80-6	PCB-6	U	21.4	21.4	pg/L	21.4
33284-50-3	PCB-7	U	21.4	21.4	pg/L	21.4
34883-43-7	PCB-8	U	21.4	21.4	pg/L	21.4
34883-39-1	PCB-9	U	21.4	21.4	pg/L	21.4
33146-45-1	PCB-10	U	107	107	pg/L	107
2050-67-1	PCB-11	U	107	107	pg/L	107
2974-92-7	PCB-13/12	CU	42.7	42.7	pg/L	42.7
34883-41-5	PCB-14	U	21.4	21.4	pg/L	21.4
2050-68-2	PCB-15	U	21.4	21.4	pg/L	21.4
38444-78-9	PCB-16	U	107	107	pg/L	107
37680-66-3	PCB-17	U	21.4	21.4	pg/L	21.4
37680-65-2	PCB-18/30	CU	42.7	42.7	pg/L	42.7
38444-73-4	PCB-19	U	21.4	21.4	pg/L	21.4
38444-84-7	PCB-20/28	C	62.3	59.6	pg/L	42.7
55702-46-0	PCB-21/33	CU	42.7	42.7	pg/L	42.7
38444-85-8	PCB-22	U	22.0	21.4	pg/L	21.4
55720-44-0	PCB-23	U	21.4	21.4	pg/L	21.4
55702-45-9	PCB-24	U	21.4	21.4	pg/L	21.4
55712-37-3	PCB-25	U	21.4	21.4	pg/L	21.4
38444-81-4	PCB-26/29	CU	42.7	42.7	pg/L	42.7
38444-76-7	PCB-27	U	21.4	21.4	pg/L	21.4
16606-02-3	PCB-31		53.9	49.1	pg/L	21.4
38444-77-8	PCB-32	U	21.4	21.4	pg/L	21.4
37680-68-5	PCB-34	U	21.4	21.4	pg/L	21.4
37680-69-6	PCB-35		45.1	41.7	pg/L	21.4
38444-87-0	PCB-36	U	21.4	21.4	pg/L	21.4
38444-90-5	PCB-37		109	106	pg/L	21.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3089
Lab Sample ID: 2628001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10622
Batch ID: 19491
Run Date: 09/02/2011 17:48
Data File: c02sep11a-9
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/05/2011 12:00
Date Received: 08/10/2011 10:00
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 935.9 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.4	21.4	pg/L	21.4
38444-88-1	PCB-39	U	21.4	21.4	pg/L	21.4
38444-93-8	PCB-40/71	C	334	329	pg/L	42.7
52663-59-9	PCB-41	U	107	107	pg/L	107
36559-22-5	PCB-42		121	116	pg/L	21.4
70362-46-8	PCB-43		73.8	67.6	pg/L	21.4
41464-39-5	PCB-44/65/47	C	2020	2010	pg/L	64.1
70362-45-7	PCB-45/51	CU	42.7	42.7	pg/L	42.7
41464-47-5	PCB-46	U	21.4	21.4	pg/L	21.4
70362-47-9	PCB-48		59.0	54.6	pg/L	21.4
41464-40-8	PCB-69/49	C	680	676	pg/L	42.7
62796-65-0	PCB-50/53	CU	42.7	42.7	pg/L	42.7
35693-99-3	PCB-52		4520	4510	pg/L	21.4
15968-05-5	PCB-54	U	21.4	21.4	pg/L	21.4
74338-24-2	PCB-55	U	21.4	21.4	pg/L	21.4
41464-43-1	PCB-56		1130	1120	pg/L	21.4
70424-67-8	PCB-57	U	21.4	21.4	pg/L	21.4
41464-49-7	PCB-58	U	21.4	21.4	pg/L	21.4
74472-33-6	PCB-59/62/75	CU	64.1	64.1	pg/L	64.1
33025-41-1	PCB-60		280	277	pg/L	21.4
33284-53-6	PCB-61/76/70/74	C	8630	8630	pg/L	85.5
74472-34-7	PCB-63		52.8	49.9	pg/L	21.4
52663-58-8	PCB-64		558	555	pg/L	21.4
32598-10-0	PCB-66		1740	1730	pg/L	21.4
73575-53-8	PCB-67		83.2	79.9	pg/L	21.4
73575-52-7	PCB-68	U	21.4	21.4	pg/L	21.4
41464-42-0	PCB-72	U	21.4	21.4	pg/L	21.4
74338-23-1	PCB-73	U	21.4	21.4	pg/L	21.4
32598-13-3	PCB-77		2570	2560	pg/L	21.4
70362-49-1	PCB-78	U	21.4	21.4	pg/L	21.4
41464-48-6	PCB-79		216	213	pg/L	21.4
33284-52-5	PCB-80	U	21.4	21.4	pg/L	21.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3089
 Lab Sample ID: 2628001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10622
 Batch ID: 19491
 Run Date: 09/02/2011 17:48
 Data File: c02sep11a-9
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 08/05/2011 12:00
 Date Received: 08/10/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 935.9 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81		51.5	48.3	pg/L	21.4
52663-62-4	PCB-82		3750	3750	pg/L	21.4
60145-20-2	PCB-83		1350	1340	pg/L	21.4
52663-60-2	PCB-84		6650	6650	pg/L	21.4
65510-45-4	PCB-117/116/85	C	4310	4300	pg/L	64.1
55312-69-1	PCB-86/87/97/109/119/125	C	21300	21300	pg/L	128
55215-17-3	PCB-88/91	C	2000	1990	pg/L	42.7
73575-57-2	PCB-89		137	134	pg/L	21.4
68194-07-0	PCB-113/90/101	C	24800	24800	pg/L	64.1
52663-61-3	PCB-92		3910	3910	pg/L	21.4
73575-56-1	PCB-93/100	CU	42.7	42.7	pg/L	42.7
73575-55-0	PCB-94		41.6	38.2	pg/L	21.4
38379-99-6	PCB-95		13400	13400	pg/L	21.4
73575-54-9	PCB-96		42.1	40.7	pg/L	21.4
60233-25-2	PCB-102/98	C	302	298	pg/L	42.7
38380-01-7	PCB-99		8480	8480	pg/L	107
60145-21-3	PCB-103		51.9	49	pg/L	21.4
56558-16-8	PCB-104	U	21.4	21.4	pg/L	21.4
32598-14-4	PCB-105		16800	16800	pg/L	107
70424-69-0	PCB-106	U	21.4	21.4	pg/L	21.4
70424-68-9	PCB-107		2710	2710	pg/L	21.4
70362-41-3	PCB-108/124	C	1560	1550	pg/L	42.7
38380-03-9	PCB-110/115	CU	42.7	42.7	pg/L	42.7
39635-32-0	PCB-111	U	21.4	21.4	pg/L	21.4
74472-36-9	PCB-112	U	21.4	21.4	pg/L	21.4
74472-37-0	PCB-114		638	634	pg/L	21.4
31508-00-6	PCB-118		38700	38700	pg/L	21.4
68194-12-7	PCB-120		44.7	42.3	pg/L	21.4
56558-18-0	PCB-121	U	21.4	21.4	pg/L	21.4
76842-07-4	PCB-122		373	369	pg/L	21.4
65510-44-3	PCB-123		502	498	pg/L	107
57465-28-8	PCB-126		803	799	pg/L	21.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3089
Lab Sample ID: 2628001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10622
Batch ID: 19491
Run Date: 09/02/2011 17:48
Data File: c02sep11a-9
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/05/2011 12:00
Date Received: 08/10/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 935.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127		66.6	63.2	pg/L	21.4
38380-07-3	PCB-128/166	C	9560	9560	pg/L	42.7
55215-18-4	PCB-138/163/129	C	48600	48600	pg/L	64.1
52663-66-8	PCB-130		3130	3130	pg/L	21.4
61798-70-7	PCB-131		596	591	pg/L	21.4
38380-05-1	PCB-132		15000	15000	pg/L	21.4
35694-04-3	PCB-133		408	402	pg/L	21.4
52704-70-8	PCB-134		1760	1750	pg/L	107
52744-13-5	PCB-151/135	C	6790	6780	pg/L	42.7
38411-22-2	PCB-136		2720	2720	pg/L	21.4
35694-06-5	PCB-137		2380	2380	pg/L	21.4
56030-56-9	PCB-139/140	C	651	646	pg/L	42.7
52712-04-6	PCB-141		8110	8100	pg/L	21.4
41411-61-4	PCB-142	U	21.4	21.4	pg/L	21.4
68194-15-0	PCB-143	U	21.4	21.4	pg/L	21.4
68194-14-9	PCB-144		1130	1130	pg/L	21.4
74472-40-5	PCB-145	U	21.4	21.4	pg/L	21.4
51908-16-8	PCB-146		4950	4950	pg/L	21.4
68194-13-8	PCB-147/149	C	23300	23300	pg/L	42.7
74472-41-6	PCB-148	U	21.4	21.4	pg/L	21.4
68194-08-1	PCB-150	U	22.8	21.4	pg/L	21.4
68194-09-2	PCB-152	U	21.4	21.4	pg/L	21.4
35065-27-1	PCB-153/168	C	25100	25100	pg/L	42.7
60145-22-4	PCB-154		193	191	pg/L	21.4
33979-03-2	PCB-155	U	21.4	21.4	pg/L	21.4
38380-08-4	PCB-156/157	C	7420	7410	pg/L	42.7
74472-42-7	PCB-158		5650	5650	pg/L	21.4
39635-35-3	PCB-159	U	21.4	21.4	pg/L	21.4
41411-62-5	PCB-160	U	21.4	21.4	pg/L	21.4
74472-43-8	PCB-161	U	21.4	21.4	pg/L	21.4
39635-34-2	PCB-162		178	176	pg/L	21.4
74472-45-0	PCB-164		3880	3870	pg/L	21.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3089
 Lab Sample ID: 2628001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10622
 Batch ID: 19491
 Run Date: 09/02/2011 17:48
 Data File: c02sep11a-9
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 08/05/2011 12:00
 Date Received: 08/10/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 935.9 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.4	21.4	pg/L	21.4
52663-72-6	PCB-167		2620	2610	pg/L	21.4
32774-16-6	PCB-169	U	21.4	21.4	pg/L	21.4
35065-30-6	PCB-170		5280	5280	pg/L	21.4
52663-71-5	PCB-173/171	C	1700	1700	pg/L	42.7
52663-74-8	PCB-172		747	744	pg/L	21.4
38411-25-5	PCB-174		4470	4460	pg/L	21.4
40186-70-7	PCB-175		155	153	pg/L	21.4
52663-65-7	PCB-176		410	408	pg/L	21.4
52663-70-4	PCB-177		2390	2380	pg/L	21.4
52663-67-9	PCB-178		542	539	pg/L	21.4
52663-64-6	PCB-179		1050	1050	pg/L	21.4
35065-29-3	PCB-193/180	C	8670	8670	pg/L	42.7
74472-47-2	PCB-181		84.5	81.8	pg/L	21.4
60145-23-5	PCB-182		36.9	33.7	pg/L	21.4
52663-69-1	PCB-183/185	C	2300	2300	pg/L	42.7
74472-48-3	PCB-184	U	21.4	21.4	pg/L	21.4
74472-49-4	PCB-186	U	21.4	21.4	pg/L	21.4
52663-68-0	PCB-187		3110	3110	pg/L	21.4
74487-85-7	PCB-188	U	21.4	21.4	pg/L	21.4
39635-31-9	PCB-189		246	244	pg/L	21.4
41411-64-7	PCB-190		870	868	pg/L	21.4
74472-50-7	PCB-191		192	190	pg/L	21.4
74472-51-8	PCB-192	U	21.4	21.4	pg/L	21.4
35694-08-7	PCB-194		795	793	pg/L	21.4
52663-78-2	PCB-195		338	336	pg/L	21.4
42740-50-1	PCB-196		385	383	pg/L	21.4
33091-17-7	PCB-197/200	C	113	111	pg/L	42.7
68194-17-2	PCB-198/199	C	696	693	pg/L	42.7
40186-71-8	PCB-201		79.6	77.8	pg/L	21.4
2136-99-4	PCB-202		107	105	pg/L	21.4
52663-76-0	PCB-203		422	420	pg/L	21.4

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3089	Client: LANL001	Project: LANL00109
Lab Sample ID: 2628001	Date Collected: 08/05/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPSAN-11-10622		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 17:48	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-9		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 935.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.4	21.4	pg/L	21.4
74472-53-0	PCB-205		42.7	40.8	pg/L	21.4
40186-72-9	PCB-206		131	128	pg/L	21.4
52663-79-3	PCB-207	U	21.4	21.4	pg/L	21.4
52663-77-1	PCB-208	U	21.4	21.4	pg/L	21.4
2051-24-3	PCB-209	U	21.4	21.4	pg/L	21.4
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs		176	256	pg/L	
26914-33-0	Total Tetra PCBs		23100	23000	pg/L	
25429-29-2	Total Penta PCBs		153000	153000	pg/L	
26601-64-9	Total Hexa PCBs		174000	174000	pg/L	
28655-71-2	Total Hepta PCBs		32200	32200	pg/L	
55722-26-4	Total Octa PCBs		2980	2960	pg/L	
53742-07-7	Total Nona PCBs		131	128	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		386000	385000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1210	2140	pg/L	56.7	(15%-150%)
13C-3-MoCB		1340	2140	pg/L	62.6	(15%-150%)
13C-4-DiCB		1290	2140	pg/L	60.2	(25%-150%)
13C-15-DiCB		1660	2140	pg/L	77.6	(25%-150%)
13C-19-TrCB		1600	2140	pg/L	74.9	(25%-150%)
13C-37-TrCB		2020	2140	pg/L	94.5	(25%-150%)
13C-54-TeCB		1770	2140	pg/L	82.9	(25%-150%)
13C-77-TeCB		2030	2140	pg/L	95.1	(25%-150%)
13C-81-TeCB		2020	2140	pg/L	94.4	(25%-150%)
13C-104-PeCB		1770	2140	pg/L	82.8	(25%-150%)
13C-105-PeCB		1920	2140	pg/L	89.8	(25%-150%)
13C-114-PeCB		1830	2140	pg/L	85.8	(25%-150%)
13C-118-PeCB		1850	2140	pg/L	86.5	(25%-150%)
13C-123-PeCB		1960	2140	pg/L	91.9	(25%-150%)
13C-126-PeCB		1890	2140	pg/L	88.5	(25%-150%)
13C-155-HxCB		1850	2140	pg/L	86.6	(25%-150%)
13C-156-HxCB	C	3600	4270	pg/L	84.3	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1730	2140	pg/L	80.8	(25%-150%)
13C-169-HxCB		2050	2140	pg/L	96.0	(25%-150%)
13C-188-HpCB		1450	2140	pg/L	67.9	(25%-150%)
13C-189-HpCB		1500	2140	pg/L	70.3	(25%-150%)
13C-202-OcCB		1440	2140	pg/L	67.5	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3089	Client: LANL001	Project: LANL00109
Lab Sample ID: 2628001	Date Collected: 08/05/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPSAN-11-10622		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 17:48	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-9		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 935.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1910	2140	pg/L	89.3 (25%-150%)
13C-206-NoCB			1910	2140	pg/L	89.2 (25%-150%)
13C-208-NoCB			1560	2140	pg/L	73.2 (25%-150%)
13C-209-DeCB			1670	2140	pg/L	78.0 (25%-150%)
13C-28-TrCB			1790	2140	pg/L	83.6 (30%-135%)
13C-111-PeCB			1950	2140	pg/L	91.1 (30%-135%)
13C-178-HpCB			2090	2140	pg/L	97.8 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3089	Client: LANL001	Project: LANL00109
Lab Sample ID: 2628002	Date Collected: 08/02/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPSAN-11-10662		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 18:53	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-10		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 961.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	20.8	20.8	pg/L	20.8
2051-61-8	PCB-2	U	20.8	20.8	pg/L	20.8
2051-62-9	PCB-3	U	20.8	20.8	pg/L	20.8
13029-08-8	PCB-4	U	104	104	pg/L	104
16605-91-7	PCB-5	U	20.8	20.8	pg/L	20.8
25569-80-6	PCB-6	U	20.8	20.8	pg/L	20.8
33284-50-3	PCB-7	U	20.8	20.8	pg/L	20.8
34883-43-7	PCB-8	U	20.8	20.8	pg/L	20.8
34883-39-1	PCB-9	U	20.8	20.8	pg/L	20.8
33146-45-1	PCB-10	U	104	104	pg/L	104
2050-67-1	PCB-11	U	104	104	pg/L	104
2974-92-7	PCB-13/12	CU	41.6	41.6	pg/L	41.6
34883-41-5	PCB-14	U	20.8	20.8	pg/L	20.8
2050-68-2	PCB-15	U	20.8	20.8	pg/L	20.8
38444-78-9	PCB-16	U	104	104	pg/L	104
37680-66-3	PCB-17	U	20.8	20.8	pg/L	20.8
37680-65-2	PCB-18/30	CU	41.6	41.6	pg/L	41.6
38444-73-4	PCB-19	U	20.8	20.8	pg/L	20.8
38444-84-7	PCB-20/28	CU	41.6	41.6	pg/L	41.6
55702-46-0	PCB-21/33	CU	41.6	41.6	pg/L	41.6
38444-85-8	PCB-22	U	20.8	20.8	pg/L	20.8
55720-44-0	PCB-23	U	20.8	20.8	pg/L	20.8
55702-45-9	PCB-24	U	20.8	20.8	pg/L	20.8
55712-37-3	PCB-25	U	20.8	20.8	pg/L	20.8
38444-81-4	PCB-26/29	CU	41.6	41.6	pg/L	41.6
38444-76-7	PCB-27	U	20.8	20.8	pg/L	20.8
16606-02-3	PCB-31	U	22.0	20.8	pg/L	20.8
38444-77-8	PCB-32	U	20.8	20.8	pg/L	20.8
37680-68-5	PCB-34	U	20.8	20.8	pg/L	20.8
37680-69-6	PCB-35	U	20.8	20.8	pg/L	20.8
38444-87-0	PCB-36	U	20.8	20.8	pg/L	20.8
38444-90-5	PCB-37	U	20.8	20.8	pg/L	20.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3089
 Lab Sample ID: 2628002
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10662
 Batch ID: 19491
 Run Date: 09/02/2011 18:53
 Data File: c02sep11a-10
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 08/02/2011 12:00
 Date Received: 08/10/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 961.1 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	20.8	20.8	pg/L	20.8
38444-88-1	PCB-39	U	20.8	20.8	pg/L	20.8
38444-93-8	PCB-40/71	CU	41.6	41.6	pg/L	41.6
52663-59-9	PCB-41	U	104	104	pg/L	104
36559-22-5	PCB-42	U	20.8	20.8	pg/L	20.8
70362-46-8	PCB-43	U	20.8	20.8	pg/L	20.8
41464-39-5	PCB-44/65/47	CU	62.4	62.4	pg/L	62.4
70362-45-7	PCB-45/51	CU	41.6	41.6	pg/L	41.6
41464-47-5	PCB-46	U	20.8	20.8	pg/L	20.8
70362-47-9	PCB-48	U	20.8	20.8	pg/L	20.8
41464-40-8	PCB-69/49	CU	41.6	41.6	pg/L	41.6
62796-65-0	PCB-50/53	CU	41.6	41.6	pg/L	41.6
35693-99-3	PCB-52	B	53.8	49.4	pg/L	20.8
15968-05-5	PCB-54	U	20.8	20.8	pg/L	20.8
74338-24-2	PCB-55	U	20.8	20.8	pg/L	20.8
41464-43-1	PCB-56	U	20.8	20.8	pg/L	20.8
70424-67-8	PCB-57	U	20.8	20.8	pg/L	20.8
41464-49-7	PCB-58	U	20.8	20.8	pg/L	20.8
74472-33-6	PCB-59/62/75	CU	62.4	62.4	pg/L	62.4
33025-41-1	PCB-60	U	20.8	20.8	pg/L	20.8
33284-53-6	PCB-61/76/70/74	CU	83.2	83.2	pg/L	83.2
74472-34-7	PCB-63	U	20.8	20.8	pg/L	20.8
52663-58-8	PCB-64	U	20.8	20.8	pg/L	20.8
32598-10-0	PCB-66	U	20.8	20.8	pg/L	20.8
73575-53-8	PCB-67	U	20.8	20.8	pg/L	20.8
73575-52-7	PCB-68	U	20.8	20.8	pg/L	20.8
41464-42-0	PCB-72	U	20.8	20.8	pg/L	20.8
74338-23-1	PCB-73	U	20.8	20.8	pg/L	20.8
32598-13-3	PCB-77	U	20.8	20.8	pg/L	20.8
70362-49-1	PCB-78	U	20.8	20.8	pg/L	20.8
41464-48-6	PCB-79	U	20.8	20.8	pg/L	20.8
33284-52-5	PCB-80	U	20.8	20.8	pg/L	20.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3089	Client: LANL001	Project: LANL00109
Lab Sample ID: 2628002	Date Collected: 08/02/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPSAN-11-10662		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 18:53	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-10		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 961.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	20.8	20.8	pg/L	20.8
52663-62-4	PCB-82	U	20.8	20.8	pg/L	20.8
60145-20-2	PCB-83	U	20.8	20.8	pg/L	20.8
52663-60-2	PCB-84		27.4	22.9	pg/L	20.8
65510-45-4	PCB-117/116/85	CU	62.4	62.4	pg/L	62.4
55312-69-1	PCB-86/87/97/109/119/125	CU	125	125	pg/L	125
55215-17-3	PCB-88/91	CU	41.6	41.6	pg/L	41.6
73575-57-2	PCB-89	U	20.8	20.8	pg/L	20.8
68194-07-0	PCB-113/90/101	C	115	111	pg/L	62.4
52663-61-3	PCB-92	U	20.8	20.8	pg/L	20.8
73575-56-1	PCB-93/100	CU	41.6	41.6	pg/L	41.6
73575-55-0	PCB-94	U	20.8	20.8	pg/L	20.8
38379-99-6	PCB-95		84.2	80.9	pg/L	20.8
73575-54-9	PCB-96	U	20.8	20.8	pg/L	20.8
60233-25-2	PCB-102/98	CU	41.6	41.6	pg/L	41.6
38380-01-7	PCB-99	U	104	104	pg/L	104
60145-21-3	PCB-103	U	20.8	20.8	pg/L	20.8
56558-16-8	PCB-104	U	20.8	20.8	pg/L	20.8
32598-14-4	PCB-105	U	104	104	pg/L	104
70424-69-0	PCB-106	U	20.8	20.8	pg/L	20.8
70424-68-9	PCB-107	U	20.8	20.8	pg/L	20.8
70362-41-3	PCB-108/124	CU	41.6	41.6	pg/L	41.6
38380-03-9	PCB-110/115	CU	41.6	41.6	pg/L	41.6
39635-32-0	PCB-111	U	20.8	20.8	pg/L	20.8
74472-36-9	PCB-112	U	20.8	20.8	pg/L	20.8
74472-37-0	PCB-114	U	20.8	20.8	pg/L	20.8
31508-00-6	PCB-118		96.4	93	pg/L	20.8
68194-12-7	PCB-120	U	20.8	20.8	pg/L	20.8
56558-18-0	PCB-121	U	20.8	20.8	pg/L	20.8
76842-07-4	PCB-122	U	20.8	20.8	pg/L	20.8
65510-44-3	PCB-123	U	104	104	pg/L	104
57465-28-8	PCB-126	U	20.8	20.8	pg/L	20.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3089
Lab Sample ID: 2628002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10662
Batch ID: 19491
Run Date: 09/02/2011 18:53
Data File: c02sep11a-10
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/02/2011 12:00
Date Received: 08/10/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 961.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	20.8	20.8	pg/L	20.8
38380-07-3	PCB-128/166	CU	41.6	41.6	pg/L	41.6
55215-18-4	PCB-138/163/129	C	184	179	pg/L	62.4
52663-66-8	PCB-130	U	20.8	20.8	pg/L	20.8
61798-70-7	PCB-131	U	20.8	20.8	pg/L	20.8
38380-05-1	PCB-132		54.4	48.9	pg/L	20.8
35694-04-3	PCB-133	U	20.8	20.8	pg/L	20.8
52704-70-8	PCB-134	U	104	104	pg/L	104
52744-13-5	PCB-151/135	CU	43.3	41.6	pg/L	41.6
38411-22-2	PCB-136	U	20.8	20.8	pg/L	20.8
35694-06-5	PCB-137	U	20.8	20.8	pg/L	20.8
56030-56-9	PCB-139/140	CU	41.6	41.6	pg/L	41.6
52712-04-6	PCB-141		34.9	28.6	pg/L	20.8
41411-61-4	PCB-142	U	20.8	20.8	pg/L	20.8
68194-15-0	PCB-143	U	20.8	20.8	pg/L	20.8
68194-14-9	PCB-144	U	20.8	20.8	pg/L	20.8
74472-40-5	PCB-145	U	20.8	20.8	pg/L	20.8
51908-16-8	PCB-146		26.4	20.9	pg/L	20.8
68194-13-8	PCB-147/149	C	123	115	pg/L	41.6
74472-41-6	PCB-148	U	20.8	20.8	pg/L	20.8
68194-08-1	PCB-150	U	20.8	20.8	pg/L	20.8
68194-09-2	PCB-152	U	20.8	20.8	pg/L	20.8
35065-27-1	PCB-153/168	C	117	111	pg/L	41.6
60145-22-4	PCB-154	U	20.8	20.8	pg/L	20.8
33979-03-2	PCB-155	U	20.8	20.8	pg/L	20.8
38380-08-4	PCB-156/157	CU	41.6	41.6	pg/L	41.6
74472-42-7	PCB-158	U	20.8	20.8	pg/L	20.8
39635-35-3	PCB-159	U	20.8	20.8	pg/L	20.8
41411-62-5	PCB-160	U	20.8	20.8	pg/L	20.8
74472-43-8	PCB-161	U	20.8	20.8	pg/L	20.8
39635-34-2	PCB-162	U	20.8	20.8	pg/L	20.8
74472-45-0	PCB-164	U	20.8	20.8	pg/L	20.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3089
Lab Sample ID: 2628002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10662
Batch ID: 19491
Run Date: 09/02/2011 18:53
Data File: c02sep11a-10
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/02/2011 12:00
Date Received: 08/10/2011 10:00
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 961.1 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	20.8	20.8	pg/L	20.8
52663-72-6	PCB-167	U	20.8	20.8	pg/L	20.8
32774-16-6	PCB-169	U	20.8	20.8	pg/L	20.8
35065-30-6	PCB-170		37.4	34.6	pg/L	20.8
52663-71-5	PCB-173/171	CU	41.6	41.6	pg/L	41.6
52663-74-8	PCB-172	U	20.8	20.8	pg/L	20.8
38411-25-5	PCB-174		42.7	39.4	pg/L	20.8
40186-70-7	PCB-175	U	20.8	20.8	pg/L	20.8
52663-65-7	PCB-176	U	20.8	20.8	pg/L	20.8
52663-70-4	PCB-177	U	22.9	20.8	pg/L	20.8
52663-67-9	PCB-178	U	20.8	20.8	pg/L	20.8
52663-64-6	PCB-179	U	20.8	20.8	pg/L	20.8
35065-29-3	PCB-193/180	CU	41.6	41.6	pg/L	41.6
74472-47-2	PCB-181	U	20.8	20.8	pg/L	20.8
60145-23-5	PCB-182	U	20.8	20.8	pg/L	20.8
52663-69-1	PCB-183/185	CU	41.6	41.6	pg/L	41.6
74472-48-3	PCB-184	U	20.8	20.8	pg/L	20.8
74472-49-4	PCB-186	U	20.8	20.8	pg/L	20.8
52663-68-0	PCB-187		40.9	38.4	pg/L	20.8
74487-85-7	PCB-188	U	20.8	20.8	pg/L	20.8
39635-31-9	PCB-189	U	20.8	20.8	pg/L	20.8
41411-64-7	PCB-190	U	20.8	20.8	pg/L	20.8
74472-50-7	PCB-191	U	20.8	20.8	pg/L	20.8
74472-51-8	PCB-192	U	20.8	20.8	pg/L	20.8
35694-08-7	PCB-194	U	20.8	20.8	pg/L	20.8
52663-78-2	PCB-195	U	20.8	20.8	pg/L	20.8
42740-50-1	PCB-196	U	20.8	20.8	pg/L	20.8
33091-17-7	PCB-197/200	CU	41.6	41.6	pg/L	41.6
68194-17-2	PCB-198/199	CU	41.6	41.6	pg/L	41.6
40186-71-8	PCB-201	U	20.8	20.8	pg/L	20.8
2136-99-4	PCB-202	U	20.8	20.8	pg/L	20.8
52663-76-0	PCB-203	U	20.8	20.8	pg/L	20.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3089
Lab Sample ID: 2628002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10662
Batch ID: 19491
Run Date: 09/02/2011 18:53
Data File: c02sep11a-10
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/02/2011 12:00
Date Received: 08/10/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 961.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	20.8	20.8	pg/L	20.8
74472-53-0	PCB-205	U	20.8	20.8	pg/L	20.8
40186-72-9	PCB-206	U	20.8	20.8	pg/L	20.8
52663-79-3	PCB-207	U	20.8	20.8	pg/L	20.8
52663-77-1	PCB-208	U	20.8	20.8	pg/L	20.8
2051-24-3	PCB-209	U	20.8	20.8	pg/L	20.8
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs	U	0	0	pg/L	
25429-29-2	Total Penta PCBs		124	308	pg/L	
26601-64-9	Total Hexa PCBs		583	504	pg/L	
28655-71-2	Total Hepta PCBs		144	112	pg/L	
55722-26-4	Total Octa PCBs	U	0	0	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		850	924	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1070	2080	pg/L	51.6	(15%-150%)
13C-3-MoCB		1210	2080	pg/L	58.1	(15%-150%)
13C-4-DiCB		1180	2080	pg/L	56.7	(25%-150%)
13C-15-DiCB		1550	2080	pg/L	74.3	(25%-150%)
13C-19-TrCB		1430	2080	pg/L	68.9	(25%-150%)
13C-37-TrCB		1800	2080	pg/L	86.4	(25%-150%)
13C-54-TeCB		1540	2080	pg/L	74.1	(25%-150%)
13C-77-TeCB		1830	2080	pg/L	87.9	(25%-150%)
13C-81-TeCB		1810	2080	pg/L	87.0	(25%-150%)
13C-104-PeCB		1560	2080	pg/L	74.8	(25%-150%)
13C-105-PeCB		1700	2080	pg/L	81.9	(25%-150%)
13C-114-PeCB		1640	2080	pg/L	78.7	(25%-150%)
13C-118-PeCB		1650	2080	pg/L	79.3	(25%-150%)
13C-123-PeCB		1760	2080	pg/L	84.3	(25%-150%)
13C-126-PeCB		1690	2080	pg/L	81.2	(25%-150%)
13C-155-HxCB		1630	2080	pg/L	78.4	(25%-150%)
13C-156-HxCB	C	3190	4160	pg/L	76.6	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1530	2080	pg/L	73.6	(25%-150%)
13C-169-HxCB		1830	2080	pg/L	87.9	(25%-150%)
13C-188-HpCB		1290	2080	pg/L	61.8	(25%-150%)
13C-189-HpCB		1330	2080	pg/L	63.8	(25%-150%)
13C-202-OcCB		1270	2080	pg/L	60.9	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3089	Client: LANL001	Project: LANL00109
Lab Sample ID: 2628002	Date Collected: 08/02/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPSAN-11-10662		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 18:53	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-10		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 961.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1700	2080	pg/L	81.6 (25%-150%)
13C-206-NoCB			1670	2080	pg/L	80.1 (25%-150%)
13C-208-NoCB			1400	2080	pg/L	67.1 (25%-150%)
13C-209-DeCB			1480	2080	pg/L	71.0 (25%-150%)
13C-28-TrCB			1570	2080	pg/L	75.4 (30%-135%)
13C-111-PeCB			1770	2080	pg/L	85.1 (30%-135%)
13C-178-HpCB			1880	2080	pg/L	90.3 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.51	0.953	3.41	
3-Chlorobiphenyl (2)	pg/L	1.7	1.1	3.9	
4-Chlorobiphenyl (3)	pg/L	1.45	0.874	3.2	
2,2'-Dichlorobiphenyl (4)	pg/L	4.77	3.22	11.2	
2,3-Dichlorobiphenyl (5)	pg/L	2.96	1.82	6.6	
2,3'-Dichlorobiphenyl (6)	pg/L	2.59	1.6	5.79	
2,4-Dichlorobiphenyl (7)	pg/L	2.48	1.53	5.54	
2,4'-Dichlorobiphenyl (8)	pg/L	2.57	1.5	5.56	
2,5-Dichlorobiphenyl (9)	pg/L	2.67	1.69	6.06	
2,6-Dichlorobiphenyl (10)	pg/L	2.55	2.03	6.6	
3,3'-Dichlorobiphenyl (11)	pg/L	3.32	1.83	6.98	
3,4-Dichlorobiphenyl (12)	pg/L	4.48	2.4	9.27	
3,5-Dichlorobiphenyl (14)	pg/L	2.99	1.69	6.37	
4,4'-Dichlorobiphenyl (15)	pg/L	3.05	1.94	6.93	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.75	1.29	4.32	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.74	1.26	4.27	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.33	0.886	3.1	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.65	1.14	3.94	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.2	0.745	2.69	
2,3,4-Trichlorobiphenyl (21)	pg/L	1.29	0.674	2.64	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1.15	0.723	2.59	
2,3,5-Trichlorobiphenyl (23)	pg/L	1.06	0.687	2.43	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.01	0.696	2.4	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.987	0.608	2.2	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.41	0.727	2.87	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.03	0.745	2.52	
2,4',5-Trichlorobiphenyl (31)	pg/L	1.57	1.62	4.81	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.982	0.68	2.34	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.1	0.729	2.55	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.58	0.892	3.36	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.33	0.737	2.8	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.32	0.83	2.98	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.43	0.812	3.06	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.3	0.731	2.76	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.01	1.29	4.59	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.26	1.54	5.33	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.03	1.35	4.74	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.52	1.85	6.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.27	1.27	4.8	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.02	0.468	1.96	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.08	0.691	2.46	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.89	1.26	4.41	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.8	1.07	3.95	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.887	0.456	1.8	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.86	1.29	4.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.618	0.372	1.36	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.45	0.885	3.22	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.69	0.936	3.56	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.38	0.835	3.05	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.34	0.789	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.86	0.996	3.85	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.48	0.801	3.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	2.26	1.07	4.39	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.35	0.792	2.93	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.46	0.927	3.31	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.4	0.837	3.08	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.55	0.919	3.38	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.36	0.831	3.02	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.28	0.776	2.83	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.4	0.922	3.24	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.56	0.968	3.49	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.6	0.927	3.45	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.36	0.751	2.86	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.55	0.895	3.34	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.47	0.907	3.28	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.87	0.989	3.85	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.81	0.989	3.79	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	2.09	1.18	4.45	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.85	0.836	3.52	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	2.66	2.7	8.06	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	2.11	0.971	4.05	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.65	0.929	3.51	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.78	0.818	3.42	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.59	0.889	3.37	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.61	0.943	3.49	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.57	0.924	3.41	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.879	3.25	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.6	0.41	1.42	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	2.01	0.927	3.87	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.34	0.77	2.88	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.38	0.804	2.99	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.615	0.367	1.35	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.55	0.92	3.39	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.47	0.909	3.29	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.59	0.917	3.42	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.52	0.859	3.23	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.79	3.99	13.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.16	0.623	2.4	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.42	0.788	3	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.58	0.951	3.48	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.53	0.949	3.43	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	1.16	0.625	2.41	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.13	0.639	2.41	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.54	0.898	3.33	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.42	0.923	3.27	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.73	1.03	3.79	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.52	0.913	3.35	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.8	1.31	4.42	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	2.07	1.38	4.83	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	2.3	1.76	5.82	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	2.25	1.7	5.65	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	2.16	1.63	5.41	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	2.15	1.68	5.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	2.36	1.86	6.08	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.32	0.687	2.7	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.784	0.543	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.95	1.43	4.81	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	2.13	1.55	5.22	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	2.48	1.93	6.33	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	2.28	1.76	5.8	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	2.09	1.65	5.38	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.02	0.687	2.4	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.771	0.532	1.84	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	2.34	1.59	5.51	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	2.73	2.51	7.76	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1	0.649	2.3	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.74	0.517	1.77	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.727	0.543	1.81	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	2.25	1.77	5.79	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.03	0.752	2.53	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.648	0.399	1.45	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.37	0.799	2.97	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.66	1.27	4.19	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.01	0.636	2.28	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.57	1.25	4.07	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.53	1.23	4	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.951	0.605	2.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.9	1.47	4.84	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.67	1.27	4.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.15	0.653	2.46	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.16	0.598	2.36	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.34	0.731	2.8	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.62	0.794	3.21	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.33	0.806	2.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.48	0.935	3.35	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.06	0.816	2.69	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.847	0.659	2.16	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.35	0.836	3.02	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.13	0.878	2.89	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.835	0.659	2.15	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.72	1.07	3.85	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.2	0.721	2.64	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.27	0.983	3.23	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.47	0.636	2.74	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.78	0.618	2.02	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.832	0.653	2.14	
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	pg/L	1.02	0.734	2.49	
2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.78	0.584	1.95	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.933	0.495	1.92	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	1.02	0.543	2.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.988	0.548	2.09	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1	0.579	2.16	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.995	0.573	2.14	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.08	0.611	2.31	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.939	0.645	2.23	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.89	0.436	1.76	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.14	0.59	2.32	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.741	0.528	1.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.777	0.527	1.83	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.866	0.591	2.05	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.74	0.522	1.78	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.895	0.512	1.92	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.14	0.619	2.38	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.923	0.542	2.01	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.934	0.559	2.05	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.941	0.511	1.96	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.7	21.7	pg/L	21.7
2051-61-8	PCB-2	U	21.7	21.7	pg/L	21.7
2051-62-9	PCB-3	U	21.7	21.7	pg/L	21.7
13029-08-8	PCB-4	U	108	108	pg/L	108
16605-91-7	PCB-5	U	21.7	21.7	pg/L	21.7
25569-80-6	PCB-6	U	21.7	21.7	pg/L	21.7
33284-50-3	PCB-7	U	21.7	21.7	pg/L	21.7
34883-43-7	PCB-8	U	21.7	21.7	pg/L	21.7
34883-39-1	PCB-9	U	21.7	21.7	pg/L	21.7
33146-45-1	PCB-10	U	108	108	pg/L	108
2050-67-1	PCB-11	U	113	108	pg/L	108
2974-92-7	PCB-13/12	CU	43.4	43.4	pg/L	43.4
34883-41-5	PCB-14	U	21.7	21.7	pg/L	21.7
2050-68-2	PCB-15	U	21.7	21.7	pg/L	21.7
38444-78-9	PCB-16	U	108	108	pg/L	108
37680-66-3	PCB-17	U	21.7	21.7	pg/L	21.7
37680-65-2	PCB-18/30	CU	43.4	43.4	pg/L	43.4
38444-73-4	PCB-19	U	21.7	21.7	pg/L	21.7
38444-84-7	PCB-20/28	CU	43.4	43.4	pg/L	43.4
55702-46-0	PCB-21/33	CU	43.4	43.4	pg/L	43.4
38444-85-8	PCB-22	U	21.7	21.7	pg/L	21.7
55720-44-0	PCB-23	U	21.7	21.7	pg/L	21.7
55702-45-9	PCB-24	U	21.7	21.7	pg/L	21.7
55712-37-3	PCB-25	U	21.7	21.7	pg/L	21.7
38444-81-4	PCB-26/29	CU	43.4	43.4	pg/L	43.4
38444-76-7	PCB-27	U	21.7	21.7	pg/L	21.7
16606-02-3	PCB-31	U	21.7	21.7	pg/L	21.7
38444-77-8	PCB-32	U	21.7	21.7	pg/L	21.7
37680-68-5	PCB-34	U	21.7	21.7	pg/L	21.7
37680-69-6	PCB-35	U	21.7	21.7	pg/L	21.7
38444-87-0	PCB-36	U	21.7	21.7	pg/L	21.7
38444-90-5	PCB-37	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.7	21.7	pg/L	21.7
38444-88-1	PCB-39	U	21.7	21.7	pg/L	21.7
38444-93-8	PCB-40/71	CU	43.4	43.4	pg/L	43.4
52663-59-9	PCB-41	U	108	108	pg/L	108
36559-22-5	PCB-42	U	21.7	21.7	pg/L	21.7
70362-46-8	PCB-43	U	21.7	21.7	pg/L	21.7
41464-39-5	PCB-44/65/47	CU	65.1	65.1	pg/L	65.1
70362-45-7	PCB-45/51	CU	43.4	43.4	pg/L	43.4
41464-47-5	PCB-46	U	21.7	21.7	pg/L	21.7
70362-47-9	PCB-48	U	21.7	21.7	pg/L	21.7
41464-40-8	PCB-69/49	CU	43.4	43.4	pg/L	43.4
62796-65-0	PCB-50/53	CU	43.4	43.4	pg/L	43.4
35693-99-3	PCB-52	B	34.1	29.7	pg/L	21.7
15968-05-5	PCB-54	U	21.7	21.7	pg/L	21.7
74338-24-2	PCB-55	U	21.7	21.7	pg/L	21.7
41464-43-1	PCB-56	U	21.7	21.7	pg/L	21.7
70424-67-8	PCB-57	U	21.7	21.7	pg/L	21.7
41464-49-7	PCB-58	U	21.7	21.7	pg/L	21.7
74472-33-6	PCB-59/62/75	CU	65.1	65.1	pg/L	65.1
33025-41-1	PCB-60	U	21.7	21.7	pg/L	21.7
33284-53-6	PCB-61/76/70/74	CU	86.8	86.8	pg/L	86.8
74472-34-7	PCB-63	U	21.7	21.7	pg/L	21.7
52663-58-8	PCB-64	U	21.7	21.7	pg/L	21.7
32598-10-0	PCB-66	U	21.7	21.7	pg/L	21.7
73575-53-8	PCB-67	U	21.7	21.7	pg/L	21.7
73575-52-7	PCB-68	U	21.7	21.7	pg/L	21.7
41464-42-0	PCB-72	U	21.7	21.7	pg/L	21.7
74338-23-1	PCB-73	U	21.7	21.7	pg/L	21.7
32598-13-3	PCB-77	U	21.7	21.7	pg/L	21.7
70362-49-1	PCB-78	U	21.7	21.7	pg/L	21.7
41464-48-6	PCB-79	U	21.7	21.7	pg/L	21.7
33284-52-5	PCB-80	U	21.7	21.7	pg/L	21.7

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.7	21.7	pg/L	21.7
52663-62-4	PCB-82	U	21.7	21.7	pg/L	21.7
60145-20-2	PCB-83	U	21.7	21.7	pg/L	21.7
52663-60-2	PCB-84	U	21.7	21.7	pg/L	21.7
65510-45-4	PCB-117/116/85	CU	65.1	65.1	pg/L	65.1
55312-69-1	PCB-86/87/97/109/119/125	CU	130	130	pg/L	130
55215-17-3	PCB-88/91	CU	43.4	43.4	pg/L	43.4
73575-57-2	PCB-89	U	21.7	21.7	pg/L	21.7
68194-07-0	PCB-113/90/101	CU	65.1	65.1	pg/L	65.1
52663-61-3	PCB-92	U	21.7	21.7	pg/L	21.7
73575-56-1	PCB-93/100	CU	43.4	43.4	pg/L	43.4
73575-55-0	PCB-94	U	21.7	21.7	pg/L	21.7
38379-99-6	PCB-95	B	39.9	36.7	pg/L	21.7
73575-54-9	PCB-96	U	21.7	21.7	pg/L	21.7
60233-25-2	PCB-102/98	CU	43.4	43.4	pg/L	43.4
38380-01-7	PCB-99	U	108	108	pg/L	108
60145-21-3	PCB-103	U	21.7	21.7	pg/L	21.7
56558-16-8	PCB-104	U	21.7	21.7	pg/L	21.7
32598-14-4	PCB-105	U	108	108	pg/L	108
70424-69-0	PCB-106	U	21.7	21.7	pg/L	21.7
70424-68-9	PCB-107	U	21.7	21.7	pg/L	21.7
70362-41-3	PCB-108/124	CU	43.4	43.4	pg/L	43.4
38380-03-9	PCB-110/115	CU	43.4	43.4	pg/L	43.4
39635-32-0	PCB-111	U	21.7	21.7	pg/L	21.7
74472-36-9	PCB-112	U	21.7	21.7	pg/L	21.7
74472-37-0	PCB-114	U	21.7	21.7	pg/L	21.7
31508-00-6	PCB-118		43.8	40.4	pg/L	21.7
68194-12-7	PCB-120	U	21.7	21.7	pg/L	21.7
56558-18-0	PCB-121	U	21.7	21.7	pg/L	21.7
76842-07-4	PCB-122	U	21.7	21.7	pg/L	21.7
65510-44-3	PCB-123	U	108	108	pg/L	108
57465-28-8	PCB-126	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.7	21.7	pg/L	21.7
38380-07-3	PCB-128/166	CU	43.4	43.4	pg/L	43.4
55215-18-4	PCB-138/163/129	C	81.1	76.3	pg/L	65.1
52663-66-8	PCB-130	U	21.7	21.7	pg/L	21.7
61798-70-7	PCB-131	U	21.7	21.7	pg/L	21.7
38380-05-1	PCB-132	U	24.2	21.7	pg/L	21.7
35694-04-3	PCB-133	U	21.7	21.7	pg/L	21.7
52704-70-8	PCB-134	U	108	108	pg/L	108
52744-13-5	PCB-151/135	CU	43.4	43.4	pg/L	43.4
38411-22-2	PCB-136	U	21.7	21.7	pg/L	21.7
35694-06-5	PCB-137	U	21.7	21.7	pg/L	21.7
56030-56-9	PCB-139/140	CU	43.4	43.4	pg/L	43.4
52712-04-6	PCB-141	U	21.7	21.7	pg/L	21.7
41411-61-4	PCB-142	U	21.7	21.7	pg/L	21.7
68194-15-0	PCB-143	U	21.7	21.7	pg/L	21.7
68194-14-9	PCB-144	U	21.7	21.7	pg/L	21.7
74472-40-5	PCB-145	U	21.7	21.7	pg/L	21.7
51908-16-8	PCB-146	U	21.7	21.7	pg/L	21.7
68194-13-8	PCB-147/149	C	65.1	57.3	pg/L	43.4
74472-41-6	PCB-148	U	21.7	21.7	pg/L	21.7
68194-08-1	PCB-150	U	21.7	21.7	pg/L	21.7
68194-09-2	PCB-152	U	21.7	21.7	pg/L	21.7
35065-27-1	PCB-153/168	C	64.8	59	pg/L	43.4
60145-22-4	PCB-154	U	21.7	21.7	pg/L	21.7
33979-03-2	PCB-155	U	21.7	21.7	pg/L	21.7
38380-08-4	PCB-156/157	CU	43.4	43.4	pg/L	43.4
74472-42-7	PCB-158	U	21.7	21.7	pg/L	21.7
39635-35-3	PCB-159	U	21.7	21.7	pg/L	21.7
41411-62-5	PCB-160	U	21.7	21.7	pg/L	21.7
74472-43-8	PCB-161	U	21.7	21.7	pg/L	21.7
39635-34-2	PCB-162	U	21.7	21.7	pg/L	21.7
74472-45-0	PCB-164	U	21.7	21.7	pg/L	21.7

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.7	21.7	pg/L	21.7
52663-72-6	PCB-167	U	21.7	21.7	pg/L	21.7
32774-16-6	PCB-169	U	21.7	21.7	pg/L	21.7
35065-30-6	PCB-170	U	21.7	21.7	pg/L	21.7
52663-71-5	PCB-173/171	CU	43.4	43.4	pg/L	43.4
52663-74-8	PCB-172	U	21.7	21.7	pg/L	21.7
38411-25-5	PCB-174	U	21.7	21.7	pg/L	21.7
40186-70-7	PCB-175	U	21.7	21.7	pg/L	21.7
52663-65-7	PCB-176	U	21.7	21.7	pg/L	21.7
52663-70-4	PCB-177	U	21.7	21.7	pg/L	21.7
52663-67-9	PCB-178	U	21.7	21.7	pg/L	21.7
52663-64-6	PCB-179	U	21.7	21.7	pg/L	21.7
35065-29-3	PCB-193/180	CU	43.4	43.4	pg/L	43.4
74472-47-2	PCB-181	U	21.7	21.7	pg/L	21.7
60145-23-5	PCB-182	U	21.7	21.7	pg/L	21.7
52663-69-1	PCB-183/185	CU	43.4	43.4	pg/L	43.4
74472-48-3	PCB-184	U	21.7	21.7	pg/L	21.7
74472-49-4	PCB-186	U	21.7	21.7	pg/L	21.7
52663-68-0	PCB-187	U	21.7	21.7	pg/L	21.7
74487-85-7	PCB-188	U	21.7	21.7	pg/L	21.7
39635-31-9	PCB-189	U	21.7	21.7	pg/L	21.7
41411-64-7	PCB-190	U	21.7	21.7	pg/L	21.7
74472-50-7	PCB-191	U	21.7	21.7	pg/L	21.7
74472-51-8	PCB-192	U	21.7	21.7	pg/L	21.7
35694-08-7	PCB-194	U	21.7	21.7	pg/L	21.7
52663-78-2	PCB-195	U	21.7	21.7	pg/L	21.7
42740-50-1	PCB-196	U	21.7	21.7	pg/L	21.7
33091-17-7	PCB-197/200	CU	43.4	43.4	pg/L	43.4
68194-17-2	PCB-198/199	CU	43.4	43.4	pg/L	43.4
40186-71-8	PCB-201	U	21.7	21.7	pg/L	21.7
2136-99-4	PCB-202	U	21.7	21.7	pg/L	21.7
52663-76-0	PCB-203	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.7	21.7	pg/L	21.7
74472-53-0	PCB-205	U	21.7	21.7	pg/L	21.7
40186-72-9	PCB-206	U	21.7	21.7	pg/L	21.7
52663-79-3	PCB-207	U	21.7	21.7	pg/L	21.7
52663-77-1	PCB-208	U	21.7	21.7	pg/L	21.7
2051-24-3	PCB-209	U	21.7	21.7	pg/L	21.7
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs	U	0	0	pg/L	
25429-29-2	Total Penta PCBs		0.00	40.4	pg/L	
26601-64-9	Total Hexa PCBs		105	193	pg/L	
28655-71-2	Total Hepta PCBs	U	0	0	pg/L	
55722-26-4	Total Octa PCBs	U	0	0	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		105	233	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1070	2170	pg/L	49.4	(15%-150%)
13C-3-MoCB		1180	2170	pg/L	54.6	(15%-150%)
13C-4-DiCB		1180	2170	pg/L	54.6	(25%-150%)
13C-15-DiCB		1540	2170	pg/L	71.0	(25%-150%)
13C-19-TrCB		1490	2170	pg/L	68.5	(25%-150%)
13C-37-TrCB		1820	2170	pg/L	83.8	(25%-150%)
13C-54-TeCB		1680	2170	pg/L	77.6	(25%-150%)
13C-77-TeCB		1830	2170	pg/L	84.3	(25%-150%)
13C-81-TeCB		1820	2170	pg/L	84.0	(25%-150%)
13C-104-PeCB		1630	2170	pg/L	75.3	(25%-150%)
13C-105-PeCB		1670	2170	pg/L	77.0	(25%-150%)
13C-114-PeCB		1610	2170	pg/L	74.2	(25%-150%)
13C-118-PeCB		1620	2170	pg/L	74.8	(25%-150%)
13C-123-PeCB		1740	2170	pg/L	80.1	(25%-150%)
13C-126-PeCB		1600	2170	pg/L	73.8	(25%-150%)
13C-155-HxCB		1790	2170	pg/L	82.5	(25%-150%)
13C-156-HxCB	C	3130	4340	pg/L	72.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1550	2170	pg/L	71.2	(25%-150%)
13C-169-HxCB		1740	2170	pg/L	80.3	(25%-150%)
13C-188-HpCB		1410	2170	pg/L	64.9	(25%-150%)
13C-189-HpCB		1390	2170	pg/L	63.9	(25%-150%)
13C-202-OcCB		1350	2170	pg/L	62.3	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3090	Client: LANL001	Project: LANL00109
Lab Sample ID: 2626001	Date Collected: 07/29/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPPAJ-11-11181		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 15:37	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-7		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 921.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1720	2170	pg/L	79.2 (25%-150%)
13C-206-NoCB			1760	2170	pg/L	81.3 (25%-150%)
13C-208-NoCB			1460	2170	pg/L	67.4 (25%-150%)
13C-209-DeCB			1520	2170	pg/L	70.1 (25%-150%)
13C-28-TrCB			1670	2170	pg/L	77.1 (30%-135%)
13C-111-PeCB			1800	2170	pg/L	83.1 (30%-135%)
13C-178-HpCB			1930	2170	pg/L	89.1 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.51	0.953	3.41	
3-Chlorobiphenyl (2)	pg/L	1.7	1.1	3.9	
4-Chlorobiphenyl (3)	pg/L	1.45	0.874	3.2	
2,2'-Dichlorobiphenyl (4)	pg/L	4.77	3.22	11.2	
2,3-Dichlorobiphenyl (5)	pg/L	2.96	1.82	6.6	
2,3'-Dichlorobiphenyl (6)	pg/L	2.59	1.6	5.79	
2,4-Dichlorobiphenyl (7)	pg/L	2.48	1.53	5.54	
2,4'-Dichlorobiphenyl (8)	pg/L	2.57	1.5	5.56	
2,5-Dichlorobiphenyl (9)	pg/L	2.67	1.69	6.06	
2,6-Dichlorobiphenyl (10)	pg/L	2.55	2.03	6.6	
3,3'-Dichlorobiphenyl (11)	pg/L	3.32	1.83	6.98	
3,4-Dichlorobiphenyl (12)	pg/L	4.48	2.4	9.27	
3,5-Dichlorobiphenyl (14)	pg/L	2.99	1.69	6.37	
4,4'-Dichlorobiphenyl (15)	pg/L	3.05	1.94	6.93	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.75	1.29	4.32	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.74	1.26	4.27	
2,2',5-Trichlorobiphenyl (18)	pg/L	1.33	0.886	3.1	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.65	1.14	3.94	
2,3,3'-Trichlorobiphenyl (20)	pg/L	1.2	0.745	2.69	
2,3,4-Trichlorobiphenyl (21)	pg/L	1.29	0.674	2.64	
2,3,4'-Trichlorobiphenyl (22)	pg/L	1.15	0.723	2.59	
2,3,5-Trichlorobiphenyl (23)	pg/L	1.06	0.687	2.43	
2,3,6-Trichlorobiphenyl (24)	pg/L	1.01	0.696	2.4	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.987	0.608	2.2	
2,3',5-Trichlorobiphenyl (26)	pg/L	1.41	0.727	2.87	
2,3',6-Trichlorobiphenyl (27)	pg/L	1.03	0.745	2.52	
2,4',5-Trichlorobiphenyl (31)	pg/L	1.57	1.62	4.81	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.982	0.68	2.34	
2',3,5-Trichlorobiphenyl (34)	pg/L	1.1	0.729	2.55	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.58	0.892	3.36	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.33	0.737	2.8	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.32	0.83	2.98	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.43	0.812	3.06	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.3	0.731	2.76	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.01	1.29	4.59	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.26	1.54	5.33	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.03	1.35	4.74	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.52	1.85	6.22	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.27	1.27	4.8	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	1.02	0.468	1.96	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	1.08	0.691	2.46	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.89	1.26	4.41	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.8	1.07	3.95	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.887	0.456	1.8	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.86	1.29	4.44	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.618	0.372	1.36	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.45	0.885	3.22	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.69	0.936	3.56	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.38	0.835	3.05	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.34	0.789	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.86	0.996	3.85	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.48	0.801	3.08	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	2.26	1.07	4.39	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.35	0.792	2.93	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.46	0.927	3.31	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.4	0.837	3.08	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.55	0.919	3.38	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.36	0.831	3.02	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.28	0.776	2.83	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	1.4	0.922	3.24	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.56	0.968	3.49	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.6	0.927	3.45	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.36	0.751	2.86	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.55	0.895	3.34	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.47	0.907	3.28	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.87	0.989	3.85	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.81	0.989	3.79	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	2.09	1.18	4.45	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.85	0.836	3.52	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	2.66	2.7	8.06	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	2.11	0.971	4.05	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.65	0.929	3.51	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.78	0.818	3.42	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.59	0.889	3.37	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.61	0.943	3.49	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.57	0.924	3.41	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.49	0.879	3.25	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.6	0.41	1.42	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	2.01	0.927	3.87	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.34	0.77	2.88	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.38	0.804	2.99	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.615	0.367	1.35	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	1.55	0.92	3.39	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.47	0.909	3.29	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.59	0.917	3.42	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	1.52	0.859	3.23	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	5.79	3.99	13.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	1.16	0.623	2.4	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.42	0.788	3	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.58	0.951	3.48	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.53	0.949	3.43	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	1.16	0.625	2.41	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	1.13	0.639	2.41	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.54	0.898	3.33	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	1.42	0.923	3.27	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.73	1.03	3.79	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	1.52	0.913	3.35	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.8	1.31	4.42	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	2.07	1.38	4.83	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	2.3	1.76	5.82	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	2.25	1.7	5.65	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	2.16	1.63	5.41	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	2.15	1.68	5.52	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	2.36	1.86	6.08	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	1.32	0.687	2.7	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.784	0.543	1.87	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.95	1.43	4.81	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	2.13	1.55	5.22	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	2.48	1.93	6.33	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	2.28	1.76	5.8	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	2.09	1.65	5.38	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	1.02	0.687	2.4	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.771	0.532	1.84	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	2.34	1.59	5.51	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	2.73	2.51	7.76	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	1	0.649	2.3	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.74	0.517	1.77	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.727	0.543	1.81	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	2.25	1.77	5.79	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	1.03	0.752	2.53	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.648	0.399	1.45	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	1.37	0.799	2.97	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.66	1.27	4.19	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	1.01	0.636	2.28	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.57	1.25	4.07	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.53	1.23	4	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.951	0.605	2.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.9	1.47	4.84	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.67	1.27	4.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	1.15	0.653	2.46	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	1.16	0.598	2.36	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.34	0.731	2.8	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.62	0.794	3.21	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.33	0.806	2.94	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.48	0.935	3.35	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	1.06	0.816	2.69	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.847	0.659	2.16	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.35	0.836	3.02	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-AUG-11 to 31-AUG-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	1.13	0.878	2.89	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.835	0.659	2.15	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	1.72	1.07	3.85	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	1.2	0.721	2.64	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	1.27	0.983	3.23	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	1.47	0.636	2.74	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.78	0.618	2.02	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.832	0.653	2.14	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	1.02	0.734	2.49	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.78	0.584	1.95	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.933	0.495	1.92	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	1.02	0.543	2.1	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.988	0.548	2.09	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	1	0.579	2.16	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.995	0.573	2.14	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	1.08	0.611	2.31	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.939	0.645	2.23	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.89	0.436	1.76	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	1.14	0.59	2.32	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.741	0.528	1.8	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.777	0.527	1.83	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.866	0.591	2.05	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.74	0.522	1.78	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.895	0.512	1.92	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	1.14	0.619	2.38	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.923	0.542	2.01	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.934	0.559	2.05	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.941	0.511	1.96	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3094
 Lab Sample ID: 2627001
 Client Sample: 1668A Water
 Client ID: WT_IPLAP-11-10480
 Batch ID: 19491
 Run Date: 09/02/2011 16:42
 Data File: c02sep11a-8
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 08/03/2011 12:00
 Date Received: 08/10/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 924.3 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.6	21.6	pg/L	21.6
2051-61-8	PCB-2	U	21.6	21.6	pg/L	21.6
2051-62-9	PCB-3	U	21.6	21.6	pg/L	21.6
13029-08-8	PCB-4	U	108	108	pg/L	108
16605-91-7	PCB-5	U	21.6	21.6	pg/L	21.6
25569-80-6	PCB-6	U	21.6	21.6	pg/L	21.6
33284-50-3	PCB-7	U	21.6	21.6	pg/L	21.6
34883-43-7	PCB-8	U	22.8	21.6	pg/L	21.6
34883-39-1	PCB-9	U	21.6	21.6	pg/L	21.6
33146-45-1	PCB-10	U	108	108	pg/L	108
2050-67-1	PCB-11		326	319	pg/L	108
2974-92-7	PCB-13/12	CU	43.3	43.3	pg/L	43.3
34883-41-5	PCB-14	U	21.6	21.6	pg/L	21.6
2050-68-2	PCB-15	U	21.7	21.6	pg/L	21.6
38444-78-9	PCB-16	U	108	108	pg/L	108
37680-66-3	PCB-17	U	21.6	21.6	pg/L	21.6
37680-65-2	PCB-18/30	CU	43.3	43.3	pg/L	43.3
38444-73-4	PCB-19	U	21.6	21.6	pg/L	21.6
38444-84-7	PCB-20/28	C	69.3	66.7	pg/L	43.3
55702-46-0	PCB-21/33	CU	43.3	43.3	pg/L	43.3
38444-85-8	PCB-22	U	22.8	21.6	pg/L	21.6
55720-44-0	PCB-23	U	21.6	21.6	pg/L	21.6
55702-45-9	PCB-24	U	21.6	21.6	pg/L	21.6
55712-37-3	PCB-25	U	21.6	21.6	pg/L	21.6
38444-81-4	PCB-26/29	CU	43.3	43.3	pg/L	43.3
38444-76-7	PCB-27	U	21.6	21.6	pg/L	21.6
16606-02-3	PCB-31		50.6	45.8	pg/L	21.6
38444-77-8	PCB-32	U	21.6	21.6	pg/L	21.6
37680-68-5	PCB-34	U	21.6	21.6	pg/L	21.6
37680-69-6	PCB-35	U	21.6	21.6	pg/L	21.6
38444-87-0	PCB-36	U	21.6	21.6	pg/L	21.6
38444-90-5	PCB-37	U	21.8	21.6	pg/L	21.6

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3094	Client: LANL001	Project: LANL00109
Lab Sample ID: 2627001	Date Collected: 08/03/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPLAP-11-10480		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 16:42	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-8		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 924.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.6	21.6	pg/L	21.6
38444-88-1	PCB-39	U	21.6	21.6	pg/L	21.6
38444-93-8	PCB-40/71	CU	43.3	43.3	pg/L	43.3
52663-59-9	PCB-41	U	108	108	pg/L	108
36559-22-5	PCB-42	U	21.6	21.6	pg/L	21.6
70362-46-8	PCB-43	U	21.6	21.6	pg/L	21.6
41464-39-5	PCB-44/65/47	CU	64.9	64.9	pg/L	64.9
70362-45-7	PCB-45/51	CU	43.3	43.3	pg/L	43.3
41464-47-5	PCB-46	U	21.6	21.6	pg/L	21.6
70362-47-9	PCB-48	U	21.6	21.6	pg/L	21.6
41464-40-8	PCB-69/49	C	52.5	48.6	pg/L	43.3
62796-65-0	PCB-50/53	CU	43.3	43.3	pg/L	43.3
35693-99-3	PCB-52		229	225	pg/L	21.6
15968-05-5	PCB-54	U	21.6	21.6	pg/L	21.6
74338-24-2	PCB-55	U	21.6	21.6	pg/L	21.6
41464-43-1	PCB-56		39.2	35.7	pg/L	21.6
70424-67-8	PCB-57	U	21.6	21.6	pg/L	21.6
41464-49-7	PCB-58	U	21.6	21.6	pg/L	21.6
74472-33-6	PCB-59/62/75	CU	64.9	64.9	pg/L	64.9
33025-41-1	PCB-60	U	21.6	21.6	pg/L	21.6
33284-53-6	PCB-61/76/70/74	C	214	210	pg/L	86.6
74472-34-7	PCB-63	U	21.6	21.6	pg/L	21.6
52663-58-8	PCB-64		38.0	34.7	pg/L	21.6
32598-10-0	PCB-66		65.9	62.8	pg/L	21.6
73575-53-8	PCB-67	U	21.6	21.6	pg/L	21.6
73575-52-7	PCB-68	U	21.6	21.6	pg/L	21.6
41464-42-0	PCB-72	U	21.6	21.6	pg/L	21.6
74338-23-1	PCB-73	U	21.6	21.6	pg/L	21.6
32598-13-3	PCB-77	U	25.1	21.6	pg/L	21.6
70362-49-1	PCB-78	U	21.6	21.6	pg/L	21.6
41464-48-6	PCB-79	U	21.6	21.6	pg/L	21.6
33284-52-5	PCB-80	U	21.6	21.6	pg/L	21.6

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3094
 Lab Sample ID: 2627001
 Client Sample: 1668A Water
 Client ID: WT_IPLAP-11-10480
 Batch ID: 19491
 Run Date: 09/02/2011 16:42
 Data File: c02sep11a-8
 Prep Batch: 19460
 Prep Date: 31-AUG-11

Client: LANL001
 Date Collected: 08/03/2011 12:00
 Date Received: 08/10/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 924.3 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.6	21.6	pg/L	21.6
52663-62-4	PCB-82		55.3	51.4	pg/L	21.6
60145-20-2	PCB-83		42.6	38.8	pg/L	21.6
52663-60-2	PCB-84		161	157	pg/L	21.6
65510-45-4	PCB-117/116/85	C	74.3	70.8	pg/L	64.9
55312-69-1	PCB-86/87/97/109/119/125	C	523	515	pg/L	130
55215-17-3	PCB-88/91	C	63.2	59.1	pg/L	43.3
73575-57-2	PCB-89	U	21.6	21.6	pg/L	21.6
68194-07-0	PCB-113/90/101	C	825	821	pg/L	64.9
52663-61-3	PCB-92		128	124	pg/L	21.6
73575-56-1	PCB-93/100	CU	43.3	43.3	pg/L	43.3
73575-55-0	PCB-94	U	21.6	21.6	pg/L	21.6
38379-99-6	PCB-95		749	745	pg/L	21.6
73575-54-9	PCB-96	U	21.6	21.6	pg/L	21.6
60233-25-2	PCB-102/98	CU	43.3	43.3	pg/L	43.3
38380-01-7	PCB-99		168	165	pg/L	108
60145-21-3	PCB-103	U	21.6	21.6	pg/L	21.6
56558-16-8	PCB-104	U	21.6	21.6	pg/L	21.6
32598-14-4	PCB-105		180	176	pg/L	108
70424-69-0	PCB-106	U	21.6	21.6	pg/L	21.6
70424-68-9	PCB-107		41.3	37.9	pg/L	21.6
70362-41-3	PCB-108/124	CU	43.3	43.3	pg/L	43.3
38380-03-9	PCB-110/115	CU	43.3	43.3	pg/L	43.3
39635-32-0	PCB-111	U	21.6	21.6	pg/L	21.6
74472-36-9	PCB-112	U	21.6	21.6	pg/L	21.6
74472-37-0	PCB-114	U	21.6	21.6	pg/L	21.6
31508-00-6	PCB-118		507	503	pg/L	21.6
68194-12-7	PCB-120	U	21.6	21.6	pg/L	21.6
56558-18-0	PCB-121	U	21.6	21.6	pg/L	21.6
76842-07-4	PCB-122	U	21.6	21.6	pg/L	21.6
65510-44-3	PCB-123	U	108	108	pg/L	108
57465-28-8	PCB-126	U	21.6	21.6	pg/L	21.6

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3094
Lab Sample ID: 2627001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10480
Batch ID: 19491
Run Date: 09/02/2011 16:42
Data File: c02sep11a-8
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/03/2011 12:00
Date Received: 08/10/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 924.3 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.6	21.6	pg/L	21.6
38380-07-3	PCB-128/166	C	248	244	pg/L	43.3
55215-18-4	PCB-138/163/129	C	3090	3080	pg/L	64.9
52663-66-8	PCB-130		124	118	pg/L	21.6
61798-70-7	PCB-131	U	21.6	21.6	pg/L	21.6
38380-05-1	PCB-132		900	895	pg/L	21.6
35694-04-3	PCB-133		34.1	28.6	pg/L	21.6
52704-70-8	PCB-134		122	115	pg/L	108
52744-13-5	PCB-151/135	C	1280	1280	pg/L	43.3
38411-22-2	PCB-136		447	446	pg/L	21.6
35694-06-5	PCB-137		50.8	46	pg/L	21.6
56030-56-9	PCB-139/140	CU	43.3	43.3	pg/L	43.3
52712-04-6	PCB-141		841	835	pg/L	21.6
41411-61-4	PCB-142	U	21.6	21.6	pg/L	21.6
68194-15-0	PCB-143	U	21.6	21.6	pg/L	21.6
68194-14-9	PCB-144		154	151	pg/L	21.6
74472-40-5	PCB-145	U	21.6	21.6	pg/L	21.6
51908-16-8	PCB-146		455	450	pg/L	21.6
68194-13-8	PCB-147/149	C	3130	3120	pg/L	43.3
74472-41-6	PCB-148	U	21.6	21.6	pg/L	21.6
68194-08-1	PCB-150	U	21.6	21.6	pg/L	21.6
68194-09-2	PCB-152	U	21.6	21.6	pg/L	21.6
35065-27-1	PCB-153/168	C	2470	2470	pg/L	43.3
60145-22-4	PCB-154	U	21.6	21.6	pg/L	21.6
33979-03-2	PCB-155	U	21.6	21.6	pg/L	21.6
38380-08-4	PCB-156/157	C	220	217	pg/L	43.3
74472-42-7	PCB-158		300	296	pg/L	21.6
39635-35-3	PCB-159	U	21.6	21.6	pg/L	21.6
41411-62-5	PCB-160	U	21.6	21.6	pg/L	21.6
74472-43-8	PCB-161	U	21.6	21.6	pg/L	21.6
39635-34-2	PCB-162	U	21.6	21.6	pg/L	21.6
74472-45-0	PCB-164		278	273	pg/L	21.6

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3094
Lab Sample ID: 2627001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10480
Batch ID: 19491
Run Date: 09/02/2011 16:42
Data File: c02sep11a-8
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/03/2011 12:00
Date Received: 08/10/2011 10:00
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 924.3 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.6	21.6	pg/L	21.6
52663-72-6	PCB-167		97.9	95.4	pg/L	21.6
32774-16-6	PCB-169	U	21.6	21.6	pg/L	21.6
35065-30-6	PCB-170		1340	1340	pg/L	21.6
52663-71-5	PCB-173/171	C	416	413	pg/L	43.3
52663-74-8	PCB-172		241	238	pg/L	21.6
38411-25-5	PCB-174		1790	1790	pg/L	21.6
40186-70-7	PCB-175		56.6	53.9	pg/L	21.6
52663-65-7	PCB-176		172	170	pg/L	21.6
52663-70-4	PCB-177		847	844	pg/L	21.6
52663-67-9	PCB-178		265	262	pg/L	21.6
52663-64-6	PCB-179		592	590	pg/L	21.6
35065-29-3	PCB-193/180	C	3460	3450	pg/L	43.3
74472-47-2	PCB-181	U	21.6	21.6	pg/L	21.6
60145-23-5	PCB-182	U	21.6	21.6	pg/L	21.6
52663-69-1	PCB-183/185	C	910	907	pg/L	43.3
74472-48-3	PCB-184	U	21.6	21.6	pg/L	21.6
74472-49-4	PCB-186	U	21.6	21.6	pg/L	21.6
52663-68-0	PCB-187		1580	1580	pg/L	21.6
74487-85-7	PCB-188	U	21.6	21.6	pg/L	21.6
39635-31-9	PCB-189		57.5	55.5	pg/L	21.6
41411-64-7	PCB-190		285	283	pg/L	21.6
74472-50-7	PCB-191		54.4	52.3	pg/L	21.6
74472-51-8	PCB-192	U	21.6	21.6	pg/L	21.6
35694-08-7	PCB-194		726	724	pg/L	21.6
52663-78-2	PCB-195		278	276	pg/L	21.6
42740-50-1	PCB-196		338	335	pg/L	21.6
33091-17-7	PCB-197/200	C	101	99.1	pg/L	43.3
68194-17-2	PCB-198/199	C	693	691	pg/L	43.3
40186-71-8	PCB-201		74.2	72.4	pg/L	21.6
2136-99-4	PCB-202		115	113	pg/L	21.6
52663-76-0	PCB-203		391	389	pg/L	21.6

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3094
Lab Sample ID: 2627001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10480
Batch ID: 19491
Run Date: 09/02/2011 16:42
Data File: c02sep11a-8
Prep Batch: 19460
Prep Date: 31-AUG-11

Client: LANL001
Date Collected: 08/03/2011 12:00
Date Received: 08/10/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 924.3 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.6	21.6	pg/L	21.6
74472-53-0	PCB-205		37.8	35.9	pg/L	21.6
40186-72-9	PCB-206		187	185	pg/L	21.6
52663-79-3	PCB-207	U	21.6	21.6	pg/L	21.6
52663-77-1	PCB-208		44.6	42.6	pg/L	21.6
2051-24-3	PCB-209		39.4	37.4	pg/L	21.6
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		348	319	pg/L	
25323-68-6	Total Tri PCBs		44.6	112	pg/L	
26914-33-0	Total Tetra PCBs		664	616	pg/L	
25429-29-2	Total Penta PCBs		3520	3470	pg/L	
26601-64-9	Total Hexa PCBs		14200	14200	pg/L	
28655-71-2	Total Hepta PCBs		12100	12000	pg/L	
55722-26-4	Total Octa PCBs		2750	2740	pg/L	
53742-07-7	Total Nona PCBs		232	228	pg/L	
2051-24-3	Total Deca PCB		39.4	37.4	pg/L	
	Total PCB Congeners		33900	33700	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1310	2160	pg/L	60.5	(15%-150%)
13C-3-MoCB		1490	2160	pg/L	69.0	(15%-150%)
13C-4-DiCB		1490	2160	pg/L	69.0	(25%-150%)
13C-15-DiCB		1930	2160	pg/L	89.2	(25%-150%)
13C-19-TrCB		1870	2160	pg/L	86.6	(25%-150%)
13C-37-TrCB		1970	2160	pg/L	90.8	(25%-150%)
13C-54-TeCB		1780	2160	pg/L	82.1	(25%-150%)
13C-77-TeCB		1960	2160	pg/L	90.5	(25%-150%)
13C-81-TeCB		1950	2160	pg/L	90.1	(25%-150%)
13C-104-PeCB		1790	2160	pg/L	82.6	(25%-150%)
13C-105-PeCB		1830	2160	pg/L	84.5	(25%-150%)
13C-114-PeCB		1750	2160	pg/L	81.0	(25%-150%)
13C-118-PeCB		1770	2160	pg/L	81.6	(25%-150%)
13C-123-PeCB		1890	2160	pg/L	87.4	(25%-150%)
13C-126-PeCB		1800	2160	pg/L	83.1	(25%-150%)
13C-155-HxCB		1840	2160	pg/L	85.2	(25%-150%)
13C-156-HxCB	C	3390	4330	pg/L	78.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1640	2160	pg/L	75.8	(25%-150%)
13C-169-HxCB		1940	2160	pg/L	89.6	(25%-150%)
13C-188-HpCB		1440	2160	pg/L	66.6	(25%-150%)
13C-189-HpCB		1440	2160	pg/L	66.6	(25%-150%)
13C-202-OcCB		1380	2160	pg/L	63.6	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3094	Client: LANL001	Project: LANL00109
Lab Sample ID: 2627001	Date Collected: 08/03/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/10/2011 10:00	
Client ID: WT_IPLAP-11-10480		Prep Basis: As Received
Batch ID: 19491	Method: EPA Method 1668A	
Run Date: 09/02/2011 16:42	Analyst: MJC	Instrument: HRP791
Data File: c02sep11a-8		Dilution: 1
Prep Batch: 19460	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 31-AUG-11	Aliquot: 924.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1830	2160	pg/L	84.8 (25%-150%)
13C-206-NoCB			1870	2160	pg/L	86.3 (25%-150%)
13C-208-NoCB			1510	2160	pg/L	69.9 (25%-150%)
13C-209-DeCB			1600	2160	pg/L	73.8 (25%-150%)
13C-28-TrCB			1770	2160	pg/L	82.0 (30%-135%)
13C-111-PeCB			1900	2160	pg/L	87.8 (30%-135%)
13C-178-HpCB			2030	2160	pg/L	93.8 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3186
Lab Sample ID: 2655001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10634
Batch ID: 19514
Run Date: 09/08/2011 14:04
Data File: c08sep11a-5
Prep Batch: 19489
Prep Date: 02-SEP-11

Client: LANL001
Date Collected: 08/04/2011 12:00
Date Received: 08/16/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 656.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	30.5	30.5	pg/L	30.5
2051-61-8	PCB-2	U	30.5	30.5	pg/L	30.5
2051-62-9	PCB-3	U	30.5	30.5	pg/L	30.5
13029-08-8	PCB-4	U	152	152	pg/L	152
16605-91-7	PCB-5	U	30.5	30.5	pg/L	30.5
25569-80-6	PCB-6	U	30.5	30.5	pg/L	30.5
33284-50-3	PCB-7	U	30.5	30.5	pg/L	30.5
34883-43-7	PCB-8		50.7	48.4	pg/L	30.5
34883-39-1	PCB-9	U	30.5	30.5	pg/L	30.5
33146-45-1	PCB-10	U	152	152	pg/L	152
2050-67-1	PCB-11	B	287	284	pg/L	152
2974-92-7	PCB-13/12	CU	60.9	60.9	pg/L	60.9
34883-41-5	PCB-14	U	30.5	30.5	pg/L	30.5
2050-68-2	PCB-15		62.1	59.7	pg/L	30.5
38444-78-9	PCB-16	U	152	152	pg/L	152
37680-66-3	PCB-17		38.8	37.3	pg/L	30.5
37680-65-2	PCB-18/30	C	79.8	78.7	pg/L	60.9
38444-73-4	PCB-19	U	30.5	30.5	pg/L	30.5
38444-84-7	PCB-20/28	C	200	199	pg/L	60.9
55702-46-0	PCB-21/33	C	102	101	pg/L	60.9
38444-85-8	PCB-22		71.8	70.8	pg/L	30.5
55720-44-0	PCB-23	U	30.5	30.5	pg/L	30.5
55702-45-9	PCB-24	U	30.5	30.5	pg/L	30.5
55712-37-3	PCB-25	U	30.5	30.5	pg/L	30.5
38444-81-4	PCB-26/29	CU	60.9	60.9	pg/L	60.9
38444-76-7	PCB-27	U	30.5	30.5	pg/L	30.5
16606-02-3	PCB-31		169	168	pg/L	30.5
38444-77-8	PCB-32	U	30.5	30.5	pg/L	30.5
37680-68-5	PCB-34	U	30.5	30.5	pg/L	30.5
37680-69-6	PCB-35		45.0	43.8	pg/L	30.5
38444-87-0	PCB-36	U	30.5	30.5	pg/L	30.5
38444-90-5	PCB-37		130	129	pg/L	30.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3186
 Lab Sample ID: 2655001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10634
 Batch ID: 19514
 Run Date: 09/08/2011 14:04
 Data File: c08sep11a-5
 Prep Batch: 19489
 Prep Date: 02-SEP-11

Client: LANL001
 Date Collected: 08/04/2011 12:00
 Date Received: 08/16/2011 10:00
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 656.5 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	30.5	30.5	pg/L	30.5
38444-88-1	PCB-39	U	30.5	30.5	pg/L	30.5
38444-93-8	PCB-40/71	CU	60.9	60.9	pg/L	60.9
52663-59-9	PCB-41	U	152	152	pg/L	152
36559-22-5	PCB-42	U	30.5	30.5	pg/L	30.5
70362-46-8	PCB-43	U	30.5	30.5	pg/L	30.5
41464-39-5	PCB-44/65/47	CU	91.4	91.4	pg/L	91.4
70362-45-7	PCB-45/51	CU	60.9	60.9	pg/L	60.9
41464-47-5	PCB-46	U	30.5	30.5	pg/L	30.5
70362-47-9	PCB-48	U	30.5	30.5	pg/L	30.5
41464-40-8	PCB-69/49	C	2000	2000	pg/L	60.9
62796-65-0	PCB-50/53	C	102	101	pg/L	60.9
35693-99-3	PCB-52	U	30.5	30.5	pg/L	30.5
15968-05-5	PCB-54	U	30.5	30.5	pg/L	30.5
74338-24-2	PCB-55	U	30.5	30.5	pg/L	30.5
41464-43-1	PCB-56		899	897	pg/L	30.5
70424-67-8	PCB-57	U	30.5	30.5	pg/L	30.5
41464-49-7	PCB-58	U	30.5	30.5	pg/L	30.5
74472-33-6	PCB-59/62/75	CU	91.4	91.4	pg/L	91.4
33025-41-1	PCB-60		136	134	pg/L	30.5
33284-53-6	PCB-61/76/70/74	C	8690	8690	pg/L	122
74472-34-7	PCB-63	U	30.5	30.5	pg/L	30.5
52663-58-8	PCB-64	U	30.5	30.5	pg/L	30.5
32598-10-0	PCB-66	U	30.5	30.5	pg/L	30.5
73575-53-8	PCB-67		79.1	77.9	pg/L	30.5
73575-52-7	PCB-68	U	30.5	30.5	pg/L	30.5
41464-42-0	PCB-72	U	30.5	30.5	pg/L	30.5
74338-23-1	PCB-73	U	30.5	30.5	pg/L	30.5
32598-13-3	PCB-77		1550	1550	pg/L	30.5
70362-49-1	PCB-78	U	30.5	30.5	pg/L	30.5
41464-48-6	PCB-79		426	425	pg/L	30.5
33284-52-5	PCB-80	U	30.5	30.5	pg/L	30.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655001	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10634		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 14:04	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-5		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 656.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81		57.5	56.4	pg/L	30.5
52663-62-4	PCB-82		4440	4440	pg/L	30.5
60145-20-2	PCB-83		2080	2080	pg/L	30.5
52663-60-2	PCB-84		8640	8640	pg/L	30.5
65510-45-4	PCB-117/116/85	C	9390	9390	pg/L	91.4
55312-69-1	PCB-86/87/97/109/119/125	C	35600	35600	pg/L	183
55215-17-3	PCB-88/91	C	4770	4770	pg/L	60.9
73575-57-2	PCB-89	U	30.5	30.5	pg/L	30.5
68194-07-0	PCB-113/90/101	C	53900	53900	pg/L	91.4
52663-61-3	PCB-92		9180	9180	pg/L	30.5
73575-56-1	PCB-93/100	CU	60.9	60.9	pg/L	60.9
73575-55-0	PCB-94		90.5	89.2	pg/L	30.5
38379-99-6	PCB-95		27900	27900	pg/L	30.5
73575-54-9	PCB-96		79.8	78.8	pg/L	30.5
60233-25-2	PCB-102/98	C	645	644	pg/L	60.9
38380-01-7	PCB-99		20200	20200	pg/L	152
60145-21-3	PCB-103		142	140	pg/L	30.5
56558-16-8	PCB-104	U	30.5	30.5	pg/L	30.5
32598-14-4	PCB-105		18300	18300	pg/L	152
70424-69-0	PCB-106	U	30.5	30.5	pg/L	30.5
70424-68-9	PCB-107		4140	4140	pg/L	30.5
70362-41-3	PCB-108/124	C	2570	2570	pg/L	60.9
38380-03-9	PCB-110/115	CU	60.9	60.9	pg/L	60.9
39635-32-0	PCB-111	U	30.5	30.5	pg/L	30.5
74472-36-9	PCB-112	U	30.5	30.5	pg/L	30.5
74472-37-0	PCB-114		338	336	pg/L	30.5
31508-00-6	PCB-118		50600	50600	pg/L	30.5
68194-12-7	PCB-120		97.8	96.9	pg/L	30.5
56558-18-0	PCB-121	U	30.5	30.5	pg/L	30.5
76842-07-4	PCB-122		615	613	pg/L	30.5
65510-44-3	PCB-123		879	878	pg/L	152
57465-28-8	PCB-126		653	652	pg/L	30.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3186
Lab Sample ID: 2655001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10634
Batch ID: 19514
Run Date: 09/08/2011 14:04
Data File: c08sep11a-5
Prep Batch: 19489
Prep Date: 02-SEP-11

Client: LANL001
Date Collected: 08/04/2011 12:00
Date Received: 08/16/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 656.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127		109	108	pg/L	30.5
38380-07-3	PCB-128/166	C	14200	14200	pg/L	60.9
55215-18-4	PCB-138/163/129	C	85100	85100	pg/L	91.4
52663-66-8	PCB-130		5350	5350	pg/L	30.5
61798-70-7	PCB-131		790	788	pg/L	30.5
38380-05-1	PCB-132		21900	21900	pg/L	30.5
35694-04-3	PCB-133		923	921	pg/L	30.5
52704-70-8	PCB-134		3630	3630	pg/L	152
52744-13-5	PCB-151/135	C	16100	16100	pg/L	60.9
38411-22-2	PCB-136		5700	5700	pg/L	30.5
35694-06-5	PCB-137	U	30.5	30.5	pg/L	30.5
56030-56-9	PCB-139/140	C	1260	1260	pg/L	60.9
52712-04-6	PCB-141		14000	14000	pg/L	30.5
41411-61-4	PCB-142	U	30.5	30.5	pg/L	30.5
68194-15-0	PCB-143	U	30.5	30.5	pg/L	30.5
68194-14-9	PCB-144		2130	2130	pg/L	30.5
74472-40-5	PCB-145	U	30.5	30.5	pg/L	30.5
51908-16-8	PCB-146		10200	10200	pg/L	30.5
68194-13-8	PCB-147/149	C	47600	47600	pg/L	60.9
74472-41-6	PCB-148		48.7	47.4	pg/L	30.5
68194-08-1	PCB-150		58.5	57.5	pg/L	30.5
68194-09-2	PCB-152		40.5	39.5	pg/L	30.5
35065-27-1	PCB-153/168	C	52100	52100	pg/L	60.9
60145-22-4	PCB-154		596	595	pg/L	30.5
33979-03-2	PCB-155	U	30.5	30.5	pg/L	30.5
38380-08-4	PCB-156/157	C	11000	11000	pg/L	60.9
74472-42-7	PCB-158		8680	8680	pg/L	30.5
39635-35-3	PCB-159	U	30.5	30.5	pg/L	30.5
41411-62-5	PCB-160	U	30.5	30.5	pg/L	30.5
74472-43-8	PCB-161	U	30.5	30.5	pg/L	30.5
39635-34-2	PCB-162		561	560	pg/L	30.5
74472-45-0	PCB-164		6480	6480	pg/L	30.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655001	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10634		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 14:04	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-5		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 656.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	30.5	30.5	pg/L	30.5
52663-72-6	PCB-167		4280	4280	pg/L	30.5
32774-16-6	PCB-169	U	30.5	30.5	pg/L	30.5
35065-30-6	PCB-170		14500	14500	pg/L	30.5
52663-71-5	PCB-173/171	C	3940	3940	pg/L	60.9
52663-74-8	PCB-172		2380	2380	pg/L	30.5
38411-25-5	PCB-174		14200	14200	pg/L	30.5
40186-70-7	PCB-175		429	428	pg/L	30.5
52663-65-7	PCB-176		1120	1120	pg/L	30.5
52663-70-4	PCB-177		7230	7230	pg/L	30.5
52663-67-9	PCB-178		2270	2270	pg/L	30.5
52663-64-6	PCB-179		3860	3860	pg/L	30.5
35065-29-3	PCB-193/180	C	28000	28000	pg/L	60.9
74472-47-2	PCB-181	U	30.5	30.5	pg/L	30.5
60145-23-5	PCB-182		73.8	72.1	pg/L	30.5
52663-69-1	PCB-183/185	C	6750	6750	pg/L	60.9
74472-48-3	PCB-184	U	30.5	30.5	pg/L	30.5
74472-49-4	PCB-186	U	30.5	30.5	pg/L	30.5
52663-68-0	PCB-187		12600	12600	pg/L	30.5
74487-85-7	PCB-188	U	30.5	30.5	pg/L	30.5
39635-31-9	PCB-189		717	716	pg/L	30.5
41411-64-7	PCB-190		3330	3330	pg/L	30.5
74472-50-7	PCB-191		501	500	pg/L	30.5
74472-51-8	PCB-192	U	30.5	30.5	pg/L	30.5
35694-08-7	PCB-194		5470	5470	pg/L	30.5
52663-78-2	PCB-195		2260	2260	pg/L	30.5
42740-50-1	PCB-196	U	30.5	30.5	pg/L	30.5
33091-17-7	PCB-197/200	CU	60.9	60.9	pg/L	60.9
68194-17-2	PCB-198/199	C	5730	5730	pg/L	60.9
40186-71-8	PCB-201		467	466	pg/L	30.5
2136-99-4	PCB-202		840	839	pg/L	30.5
52663-76-0	PCB-203	U	30.5	30.5	pg/L	30.5

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655001	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10634		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 14:04	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-5		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 656.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	30.5	30.5	pg/L	30.5
74472-53-0	PCB-205		294	293	pg/L	30.5
40186-72-9	PCB-206		1310	1310	pg/L	30.5
52663-79-3	PCB-207		139	138	pg/L	30.5
52663-77-1	PCB-208		246	245	pg/L	30.5
2051-24-3	PCB-209		69.3	68.1	pg/L	30.5
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		113	108	pg/L	
25323-68-6	Total Tri PCBs		836	828	pg/L	
26914-33-0	Total Tetra PCBs		13900	13900	pg/L	
25429-29-2	Total Penta PCBs		255000	255000	pg/L	
26601-64-9	Total Hexa PCBs		313000	313000	pg/L	
28655-71-2	Total Hepta PCBs		102000	102000	pg/L	
55722-26-4	Total Octa PCBs		15100	15100	pg/L	
53742-07-7	Total Nona PCBs		1700	1700	pg/L	
2051-24-3	Total Deca PCB		69.3	68.1	pg/L	
	Total PCB Congeners		702000	702000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		579	3050	pg/L	19.0	(15%-150%)
13C-3-MoCB		928	3050	pg/L	30.5	(15%-150%)
13C-4-DiCB		1020	3050	pg/L	33.6	(25%-150%)
13C-15-DiCB		2150	3050	pg/L	70.4	(25%-150%)
13C-19-TrCB		1790	3050	pg/L	58.6	(25%-150%)
13C-37-TrCB		2570	3050	pg/L	84.3	(25%-150%)
13C-54-TeCB		1820	3050	pg/L	59.6	(25%-150%)
13C-77-TeCB		2830	3050	pg/L	92.8	(25%-150%)
13C-81-TeCB		2810	3050	pg/L	92.1	(25%-150%)
13C-104-PeCB		2250	3050	pg/L	73.9	(25%-150%)
13C-105-PeCB		2460	3050	pg/L	80.8	(25%-150%)
13C-114-PeCB		2340	3050	pg/L	77.0	(25%-150%)
13C-118-PeCB		2360	3050	pg/L	77.4	(25%-150%)
13C-123-PeCB		2510	3050	pg/L	82.4	(25%-150%)
13C-126-PeCB		2440	3050	pg/L	80.1	(25%-150%)
13C-155-HxCB		2610	3050	pg/L	85.6	(25%-150%)
13C-156-HxCB	C	4590	6090	pg/L	75.3	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		2230	3050	pg/L	73.1	(25%-150%)
13C-169-HxCB		2630	3050	pg/L	86.2	(25%-150%)
13C-188-HpCB		2140	3050	pg/L	70.1	(25%-150%)
13C-189-HpCB		1920	3050	pg/L	63.0	(25%-150%)
13C-202-OcCB		2210	3050	pg/L	72.5	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655001	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10634		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 14:04	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-5		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 656.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			2600	3050	pg/L	85.4 (25%-150%)
13C-206-NoCB			2830	3050	pg/L	92.8 (25%-150%)
13C-208-NoCB			2380	3050	pg/L	78.1 (25%-150%)
13C-209-DeCB			2560	3050	pg/L	84.1 (25%-150%)
13C-28-TrCB			2050	3050	pg/L	67.1 (30%-135%)
13C-111-PeCB			2660	3050	pg/L	87.3 (30%-135%)
13C-178-HpCB			3070	3050	pg/L	101 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3186
Lab Sample ID: 2655002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10658
Batch ID: 19514
Run Date: 09/08/2011 15:09
Data File: c08sep11a-6
Prep Batch: 19489
Prep Date: 02-SEP-11

Client: LANL001
Date Collected: 08/04/2011 12:00
Date Received: 08/16/2011 10:00
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 920.1 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.7	21.7	pg/L	21.7
2051-61-8	PCB-2	U	21.7	21.7	pg/L	21.7
2051-62-9	PCB-3	U	21.7	21.7	pg/L	21.7
13029-08-8	PCB-4	U	109	109	pg/L	109
16605-91-7	PCB-5	U	21.7	21.7	pg/L	21.7
25569-80-6	PCB-6	U	21.7	21.7	pg/L	21.7
33284-50-3	PCB-7	U	21.7	21.7	pg/L	21.7
34883-43-7	PCB-8	U	21.7	21.7	pg/L	21.7
34883-39-1	PCB-9	U	21.7	21.7	pg/L	21.7
33146-45-1	PCB-10	U	109	109	pg/L	109
2050-67-1	PCB-11	B	173	170	pg/L	109
2974-92-7	PCB-13/12	CU	43.5	43.5	pg/L	43.5
34883-41-5	PCB-14	U	21.7	21.7	pg/L	21.7
2050-68-2	PCB-15		28.4	26.1	pg/L	21.7
38444-78-9	PCB-16	U	109	109	pg/L	109
37680-66-3	PCB-17	U	21.7	21.7	pg/L	21.7
37680-65-2	PCB-18/30	CU	43.5	43.5	pg/L	43.5
38444-73-4	PCB-19	U	21.7	21.7	pg/L	21.7
38444-84-7	PCB-20/28	C	147	146	pg/L	43.5
55702-46-0	PCB-21/33	CU	43.5	43.5	pg/L	43.5
38444-85-8	PCB-22		52.8	51.9	pg/L	21.7
55720-44-0	PCB-23	U	21.7	21.7	pg/L	21.7
55702-45-9	PCB-24	U	21.7	21.7	pg/L	21.7
55712-37-3	PCB-25	U	21.7	21.7	pg/L	21.7
38444-81-4	PCB-26/29	CU	43.5	43.5	pg/L	43.5
38444-76-7	PCB-27	U	21.7	21.7	pg/L	21.7
16606-02-3	PCB-31		81.6	80.8	pg/L	21.7
38444-77-8	PCB-32		27.1	26.3	pg/L	21.7
37680-68-5	PCB-34	U	21.7	21.7	pg/L	21.7
37680-69-6	PCB-35	U	21.7	21.7	pg/L	21.7
38444-87-0	PCB-36	U	21.7	21.7	pg/L	21.7
38444-90-5	PCB-37		86.4	85.5	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3186
Lab Sample ID: 2655002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10658
Batch ID: 19514
Run Date: 09/08/2011 15:09
Data File: c08sep11a-6
Prep Batch: 19489
Prep Date: 02-SEP-11

Client: LANL001
Date Collected: 08/04/2011 12:00
Date Received: 08/16/2011 10:00
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 920.1 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.7	21.7	pg/L	21.7
38444-88-1	PCB-39	U	21.7	21.7	pg/L	21.7
38444-93-8	PCB-40/71	C	236	234	pg/L	43.5
52663-59-9	PCB-41	U	109	109	pg/L	109
36559-22-5	PCB-42		124	122	pg/L	21.7
70362-46-8	PCB-43		27.7	24.8	pg/L	21.7
41464-39-5	PCB-44/65/47	C	780	778	pg/L	65.2
70362-45-7	PCB-45/51	C	66.0	64.9	pg/L	43.5
41464-47-5	PCB-46	U	23.0	21.7	pg/L	21.7
70362-47-9	PCB-48		43.2	41.3	pg/L	21.7
41464-40-8	PCB-69/49	C	388	386	pg/L	43.5
62796-65-0	PCB-50/53	C	51.4	50.4	pg/L	43.5
35693-99-3	PCB-52		1550	1550	pg/L	21.7
15968-05-5	PCB-54	U	21.7	21.7	pg/L	21.7
74338-24-2	PCB-55	U	21.7	21.7	pg/L	21.7
41464-43-1	PCB-56		423	422	pg/L	21.7
70424-67-8	PCB-57	U	21.7	21.7	pg/L	21.7
41464-49-7	PCB-58	U	21.7	21.7	pg/L	21.7
74472-33-6	PCB-59/62/75	CU	65.2	65.2	pg/L	65.2
33025-41-1	PCB-60		136	134	pg/L	21.7
33284-53-6	PCB-61/76/70/74	C	1450	1450	pg/L	86.9
74472-34-7	PCB-63	U	21.7	21.7	pg/L	21.7
52663-58-8	PCB-64		344	342	pg/L	21.7
32598-10-0	PCB-66		647	646	pg/L	21.7
73575-53-8	PCB-67	U	21.7	21.7	pg/L	21.7
73575-52-7	PCB-68	U	21.7	21.7	pg/L	21.7
41464-42-0	PCB-72	U	21.7	21.7	pg/L	21.7
74338-23-1	PCB-73	U	21.7	21.7	pg/L	21.7
32598-13-3	PCB-77		251	249	pg/L	21.7
70362-49-1	PCB-78	U	21.7	21.7	pg/L	21.7
41464-48-6	PCB-79		50.2	49.2	pg/L	21.7
33284-52-5	PCB-80	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655002	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10658		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 15:09	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-6		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 920.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.7	21.7	pg/L	21.7
52663-62-4	PCB-82		785	784	pg/L	21.7
60145-20-2	PCB-83		373	372	pg/L	21.7
52663-60-2	PCB-84		1860	1860	pg/L	21.7
65510-45-4	PCB-117/116/85	C	1280	1280	pg/L	65.2
55312-69-1	PCB-86/87/97/109/119/125	C	5010	5010	pg/L	130
55215-17-3	PCB-88/91	C	792	790	pg/L	43.5
73575-57-2	PCB-89		39.5	38.1	pg/L	21.7
68194-07-0	PCB-113/90/101	C	6970	6970	pg/L	65.2
52663-61-3	PCB-92		1230	1230	pg/L	21.7
73575-56-1	PCB-93/100	CU	43.5	43.5	pg/L	43.5
73575-55-0	PCB-94	U	21.7	21.7	pg/L	21.7
38379-99-6	PCB-95		5000	4990	pg/L	21.7
73575-54-9	PCB-96		23.0	22	pg/L	21.7
60233-25-2	PCB-102/98	C	136	135	pg/L	43.5
38380-01-7	PCB-99		2460	2460	pg/L	109
60145-21-3	PCB-103		24.6	23.4	pg/L	21.7
56558-16-8	PCB-104	U	21.7	21.7	pg/L	21.7
32598-14-4	PCB-105		2520	2520	pg/L	109
70424-69-0	PCB-106	U	21.7	21.7	pg/L	21.7
70424-68-9	PCB-107		504	503	pg/L	21.7
70362-41-3	PCB-108/124	C	272	271	pg/L	43.5
38380-03-9	PCB-110/115	CU	43.5	43.5	pg/L	43.5
39635-32-0	PCB-111	U	21.7	21.7	pg/L	21.7
74472-36-9	PCB-112	U	21.7	21.7	pg/L	21.7
74472-37-0	PCB-114		81.9	80.5	pg/L	21.7
31508-00-6	PCB-118		6410	6410	pg/L	21.7
68194-12-7	PCB-120	U	21.7	21.7	pg/L	21.7
56558-18-0	PCB-121	U	21.7	21.7	pg/L	21.7
76842-07-4	PCB-122		86.3	84.9	pg/L	21.7
65510-44-3	PCB-123		115	114	pg/L	109
57465-28-8	PCB-126		62.9	61.5	pg/L	21.7

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3186
Lab Sample ID: 2655002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10658
Batch ID: 19514
Run Date: 09/08/2011 15:09
Data File: c08sep11a-6
Prep Batch: 19489
Prep Date: 02-SEP-11

Client: LANL001
Date Collected: 08/04/2011 12:00
Date Received: 08/16/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 920.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.7	21.7	pg/L	21.7
38380-07-3	PCB-128/166	C	1760	1760	pg/L	43.5
55215-18-4	PCB-138/163/129	C	11600	11600	pg/L	65.2
52663-66-8	PCB-130		715	713	pg/L	21.7
61798-70-7	PCB-131		142	140	pg/L	21.7
38380-05-1	PCB-132		3530	3520	pg/L	21.7
35694-04-3	PCB-133		137	135	pg/L	21.7
52704-70-8	PCB-134		605	602	pg/L	109
52744-13-5	PCB-151/135	C	2960	2960	pg/L	43.5
38411-22-2	PCB-136		1080	1080	pg/L	21.7
35694-06-5	PCB-137		517	515	pg/L	21.7
56030-56-9	PCB-139/140	C	195	193	pg/L	43.5
52712-04-6	PCB-141		2270	2270	pg/L	21.7
41411-61-4	PCB-142	U	21.7	21.7	pg/L	21.7
68194-15-0	PCB-143	U	21.7	21.7	pg/L	21.7
68194-14-9	PCB-144		434	433	pg/L	21.7
74472-40-5	PCB-145	U	21.7	21.7	pg/L	21.7
51908-16-8	PCB-146		1580	1580	pg/L	21.7
68194-13-8	PCB-147/149	C	7980	7970	pg/L	43.5
74472-41-6	PCB-148	U	21.7	21.7	pg/L	21.7
68194-08-1	PCB-150	U	21.7	21.7	pg/L	21.7
68194-09-2	PCB-152	U	21.7	21.7	pg/L	21.7
35065-27-1	PCB-153/168	C	7480	7480	pg/L	43.5
60145-22-4	PCB-154		97.8	96.3	pg/L	21.7
33979-03-2	PCB-155	U	21.7	21.7	pg/L	21.7
38380-08-4	PCB-156/157	C	1360	1360	pg/L	43.5
74472-42-7	PCB-158		1300	1300	pg/L	21.7
39635-35-3	PCB-159	U	21.7	21.7	pg/L	21.7
41411-62-5	PCB-160	U	21.7	21.7	pg/L	21.7
74472-43-8	PCB-161	U	21.7	21.7	pg/L	21.7
39635-34-2	PCB-162		35.0	33.9	pg/L	21.7
74472-45-0	PCB-164		960	958	pg/L	21.7

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655002	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10658		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 15:09	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-6		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 920.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.7	21.7	pg/L	21.7
52663-72-6	PCB-167		551	549	pg/L	21.7
32774-16-6	PCB-169	U	21.7	21.7	pg/L	21.7
35065-30-6	PCB-170		2320	2320	pg/L	21.7
52663-71-5	PCB-173/171	C	726	724	pg/L	43.5
52663-74-8	PCB-172		422	420	pg/L	21.7
38411-25-5	PCB-174		2690	2690	pg/L	21.7
40186-70-7	PCB-175		97.1	95.7	pg/L	21.7
52663-65-7	PCB-176		254	253	pg/L	21.7
52663-70-4	PCB-177		1300	1300	pg/L	21.7
52663-67-9	PCB-178		458	457	pg/L	21.7
52663-64-6	PCB-179		876	875	pg/L	21.7
35065-29-3	PCB-193/180	C	5240	5240	pg/L	43.5
74472-47-2	PCB-181	U	21.7	21.7	pg/L	21.7
60145-23-5	PCB-182	U	21.7	21.7	pg/L	21.7
52663-69-1	PCB-183/185	C	1410	1410	pg/L	43.5
74472-48-3	PCB-184	U	21.7	21.7	pg/L	21.7
74472-49-4	PCB-186	U	21.7	21.7	pg/L	21.7
52663-68-0	PCB-187		2620	2620	pg/L	21.7
74487-85-7	PCB-188	U	21.7	21.7	pg/L	21.7
39635-31-9	PCB-189		106	105	pg/L	21.7
41411-64-7	PCB-190		516	515	pg/L	21.7
74472-50-7	PCB-191		94.1	93	pg/L	21.7
74472-51-8	PCB-192	U	21.7	21.7	pg/L	21.7
35694-08-7	PCB-194		1030	1030	pg/L	21.7
52663-78-2	PCB-195		420	419	pg/L	21.7
42740-50-1	PCB-196		580	579	pg/L	21.7
33091-17-7	PCB-197/200	CU	43.5	43.5	pg/L	43.5
68194-17-2	PCB-198/199	C	1140	1140	pg/L	43.5
40186-71-8	PCB-201		115	114	pg/L	21.7
2136-99-4	PCB-202		191	190	pg/L	21.7
52663-76-0	PCB-203		782	781	pg/L	21.7

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655002	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10658		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 15:09	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-6		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 920.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.7	21.7	pg/L	21.7
74472-53-0	PCB-205		54.6	53.8	pg/L	21.7
40186-72-9	PCB-206		271	270	pg/L	21.7
52663-79-3	PCB-207		32.0	31.1	pg/L	21.7
52663-77-1	PCB-208		63.8	62.8	pg/L	21.7
2051-24-3	PCB-209		72.8	71.6	pg/L	21.7
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		28.4	26.1	pg/L	
25323-68-6	Total Tri PCBs		395	391	pg/L	
26914-33-0	Total Tetra PCBs		6590	6540	pg/L	
25429-29-2	Total Penta PCBs		36000	36000	pg/L	
26601-64-9	Total Hexa PCBs		47300	47200	pg/L	
28655-71-2	Total Hepta PCBs		19100	19100	pg/L	
55722-26-4	Total Octa PCBs		4320	4310	pg/L	
53742-07-7	Total Nona PCBs		367	364	pg/L	
2051-24-3	Total Deca PCB		72.8	71.6	pg/L	
	Total PCB Congeners		114000	114000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1480	2170	pg/L	68.2	(15%-150%)
13C-3-MoCB		1700	2170	pg/L	78.3	(15%-150%)
13C-4-DiCB		1750	2170	pg/L	80.4	(25%-150%)
13C-15-DiCB		1930	2170	pg/L	88.7	(25%-150%)
13C-19-TrCB		2050	2170	pg/L	94.1	(25%-150%)
13C-37-TrCB		2020	2170	pg/L	93.1	(25%-150%)
13C-54-TeCB		1900	2170	pg/L	87.5	(25%-150%)
13C-77-TeCB		2000	2170	pg/L	92.1	(25%-150%)
13C-81-TeCB		2010	2170	pg/L	92.6	(25%-150%)
13C-104-PeCB		1810	2170	pg/L	83.5	(25%-150%)
13C-105-PeCB		1900	2170	pg/L	87.6	(25%-150%)
13C-114-PeCB		1690	2170	pg/L	78.0	(25%-150%)
13C-118-PeCB		1710	2170	pg/L	78.7	(25%-150%)
13C-123-PeCB		1820	2170	pg/L	83.6	(25%-150%)
13C-126-PeCB		1680	2170	pg/L	77.1	(25%-150%)
13C-155-HxCB		2070	2170	pg/L	95.1	(25%-150%)
13C-156-HxCB	C	3350	4350	pg/L	77.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1630	2170	pg/L	74.8	(25%-150%)
13C-169-HxCB		1890	2170	pg/L	87.0	(25%-150%)
13C-188-HpCB		1630	2170	pg/L	74.9	(25%-150%)
13C-189-HpCB		1380	2170	pg/L	63.5	(25%-150%)
13C-202-OcCB		1630	2170	pg/L	75.0	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3186	Client: LANL001	Project: LANL00109
Lab Sample ID: 2655002	Date Collected: 08/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/16/2011 10:00	
Client ID: WT_IPSAN-11-10658		Prep Basis: As Received
Batch ID: 19514	Method: EPA Method 1668A	
Run Date: 09/08/2011 15:09	Analyst: MJC	Instrument: HRP791
Data File: c08sep11a-6		Dilution: 1
Prep Batch: 19489	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 02-SEP-11	Aliquot: 920.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1910	2170	pg/L	88.0 (25%-150%)
13C-206-NoCB			2140	2170	pg/L	98.6 (25%-150%)
13C-208-NoCB			1740	2170	pg/L	80.2 (25%-150%)
13C-209-DeCB			1980	2170	pg/L	91.1 (25%-150%)
13C-28-TrCB			1770	2170	pg/L	81.5 (30%-135%)
13C-111-PeCB			1980	2170	pg/L	91.3 (30%-135%)
13C-178-HpCB			2320	2170	pg/L	107 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3248
Lab Sample ID: 2664001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10619
Batch ID: 19545
Run Date: 09/09/2011 23:19
Data File: c09sep11a-7
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 917.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1		25.3	22.2	pg/L	21.8
2051-61-8	PCB-2	U	21.8	21.8	pg/L	21.8
2051-62-9	PCB-3	U	21.8	21.8	pg/L	21.8
13029-08-8	PCB-4	U	109	109	pg/L	109
16605-91-7	PCB-5	U	21.8	21.8	pg/L	21.8
25569-80-6	PCB-6	U	21.8	21.8	pg/L	21.8
33284-50-3	PCB-7	U	21.8	21.8	pg/L	21.8
34883-43-7	PCB-8		30.6	28.3	pg/L	21.8
34883-39-1	PCB-9	U	21.8	21.8	pg/L	21.8
33146-45-1	PCB-10	U	109	109	pg/L	109
2050-67-1	PCB-11		401	398	pg/L	109
2974-92-7	PCB-13/12	CU	43.6	43.6	pg/L	43.6
34883-41-5	PCB-14	U	21.8	21.8	pg/L	21.8
2050-68-2	PCB-15		45.9	43.6	pg/L	21.8
38444-78-9	PCB-16	U	109	109	pg/L	109
37680-66-3	PCB-17		31.3	29.8	pg/L	21.8
37680-65-2	PCB-18/30	C	62.6	61.5	pg/L	43.6
38444-73-4	PCB-19	U	21.8	21.8	pg/L	21.8
38444-84-7	PCB-20/28	C	367	366	pg/L	43.6
55702-46-0	PCB-21/33	C	45.7	44.8	pg/L	43.6
38444-85-8	PCB-22		117	116	pg/L	21.8
55720-44-0	PCB-23	U	21.8	21.8	pg/L	21.8
55702-45-9	PCB-24	U	21.8	21.8	pg/L	21.8
55712-37-3	PCB-25	U	21.8	21.8	pg/L	21.8
38444-81-4	PCB-26/29	C	54.7	53.7	pg/L	43.6
38444-76-7	PCB-27	U	21.8	21.8	pg/L	21.8
16606-02-3	PCB-31		173	172	pg/L	21.8
38444-77-8	PCB-32		57.4	56.6	pg/L	21.8
37680-68-5	PCB-34	U	21.8	21.8	pg/L	21.8
37680-69-6	PCB-35		23.4	22.3	pg/L	21.8
38444-87-0	PCB-36	U	21.8	21.8	pg/L	21.8
38444-90-5	PCB-37		96.7	95.7	pg/L	21.8

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3248
Lab Sample ID: 2664001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10619
Batch ID: 19545
Run Date: 09/09/2011 23:19
Data File: c09sep11a-7
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 917.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.8	21.8	pg/L	21.8
38444-88-1	PCB-39	U	21.8	21.8	pg/L	21.8
38444-93-8	PCB-40/71	C	234	232	pg/L	43.6
52663-59-9	PCB-41	U	109	109	pg/L	109
36559-22-5	PCB-42		124	122	pg/L	21.8
70362-46-8	PCB-43		25.8	22.9	pg/L	21.8
41464-39-5	PCB-44/65/47	CU	65.4	65.4	pg/L	65.4
70362-45-7	PCB-45/51	C	85.4	84.4	pg/L	43.6
41464-47-5	PCB-46		32.2	30.8	pg/L	21.8
70362-47-9	PCB-48		53.2	51.4	pg/L	21.8
41464-40-8	PCB-69/49	C	280	279	pg/L	43.6
62796-65-0	PCB-50/53	C	51.3	50.3	pg/L	43.6
35693-99-3	PCB-52		916	914	pg/L	21.8
15968-05-5	PCB-54	U	21.8	21.8	pg/L	21.8
74338-24-2	PCB-55	U	21.8	21.8	pg/L	21.8
41464-43-1	PCB-56		352	351	pg/L	21.8
70424-67-8	PCB-57	U	21.8	21.8	pg/L	21.8
41464-49-7	PCB-58	U	21.8	21.8	pg/L	21.8
74472-33-6	PCB-59/62/75	CU	65.4	65.4	pg/L	65.4
33025-41-1	PCB-60		156	155	pg/L	21.8
33284-53-6	PCB-61/76/70/74	C	1170	1170	pg/L	87.2
74472-34-7	PCB-63	U	21.8	21.8	pg/L	21.8
52663-58-8	PCB-64		246	245	pg/L	21.8
32598-10-0	PCB-66		547	546	pg/L	21.8
73575-53-8	PCB-67	U	22.7	21.8	pg/L	21.8
73575-52-7	PCB-68	U	21.8	21.8	pg/L	21.8
41464-42-0	PCB-72	U	21.8	21.8	pg/L	21.8
74338-23-1	PCB-73	U	21.8	21.8	pg/L	21.8
32598-13-3	PCB-77		199	198	pg/L	21.8
70362-49-1	PCB-78	U	21.8	21.8	pg/L	21.8
41464-48-6	PCB-79	U	21.8	21.8	pg/L	21.8
33284-52-5	PCB-80	U	21.8	21.8	pg/L	21.8

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3248
Lab Sample ID: 2664001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10619
Batch ID: 19545
Run Date: 09/09/2011 23:19
Data File: c09sep11a-7
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 917.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.8	21.8	pg/L	21.8
52663-62-4	PCB-82		265	264	pg/L	21.8
60145-20-2	PCB-83		111	110	pg/L	21.8
52663-60-2	PCB-84		640	638	pg/L	21.8
65510-45-4	PCB-117/116/85	C	332	331	pg/L	65.4
55312-69-1	PCB-86/87/97/109/119/125	C	1580	1580	pg/L	131
55215-17-3	PCB-88/91	C	236	234	pg/L	43.6
73575-57-2	PCB-89	U	21.8	21.8	pg/L	21.8
68194-07-0	PCB-113/90/101	C	2610	2610	pg/L	65.4
52663-61-3	PCB-92		409	407	pg/L	21.8
73575-56-1	PCB-93/100	CU	43.6	43.6	pg/L	43.6
73575-55-0	PCB-94	U	21.8	21.8	pg/L	21.8
38379-99-6	PCB-95		1900	1900	pg/L	21.8
73575-54-9	PCB-96	U	21.8	21.8	pg/L	21.8
60233-25-2	PCB-102/98	CU	43.6	43.6	pg/L	43.6
38380-01-7	PCB-99		703	701	pg/L	109
60145-21-3	PCB-103	U	21.8	21.8	pg/L	21.8
56558-16-8	PCB-104	U	21.8	21.8	pg/L	21.8
32598-14-4	PCB-105		908	907	pg/L	109
70424-69-0	PCB-106	U	21.8	21.8	pg/L	21.8
70424-68-9	PCB-107		161	160	pg/L	21.8
70362-41-3	PCB-108/124	C	89.9	88.5	pg/L	43.6
38380-03-9	PCB-110/115	CU	43.6	43.6	pg/L	43.6
39635-32-0	PCB-111	U	21.8	21.8	pg/L	21.8
74472-36-9	PCB-112	U	21.8	21.8	pg/L	21.8
74472-37-0	PCB-114		40.2	38.8	pg/L	21.8
31508-00-6	PCB-118		2200	2200	pg/L	21.8
68194-12-7	PCB-120	U	21.8	21.8	pg/L	21.8
56558-18-0	PCB-121	U	21.8	21.8	pg/L	21.8
76842-07-4	PCB-122		24.0	22.6	pg/L	21.8
65510-44-3	PCB-123	U	109	109	pg/L	109
57465-28-8	PCB-126		46.1	44.7	pg/L	21.8

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10619
Batch ID: 19545
Run Date: 09/09/2011 23:19
Data File: c09sep11a-7
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 917.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.8	21.8	pg/L	21.8
38380-07-3	PCB-128/166	C	581	579	pg/L	43.6
55215-18-4	PCB-138/163/129	C	4590	4590	pg/L	65.4
52663-66-8	PCB-130		240	237	pg/L	21.8
61798-70-7	PCB-131		47.3	44.9	pg/L	21.8
38380-05-1	PCB-132		1340	1340	pg/L	21.8
35694-04-3	PCB-133		48.3	46	pg/L	21.8
52704-70-8	PCB-134		203	201	pg/L	109
52744-13-5	PCB-151/135	C	1440	1440	pg/L	43.6
38411-22-2	PCB-136		534	533	pg/L	21.8
35694-06-5	PCB-137		138	136	pg/L	21.8
56030-56-9	PCB-139/140	C	52.3	50.1	pg/L	43.6
52712-04-6	PCB-141		1060	1060	pg/L	21.8
41411-61-4	PCB-142	U	21.8	21.8	pg/L	21.8
68194-15-0	PCB-143	U	21.8	21.8	pg/L	21.8
68194-14-9	PCB-144		208	207	pg/L	21.8
74472-40-5	PCB-145	U	21.8	21.8	pg/L	21.8
51908-16-8	PCB-146		633	631	pg/L	21.8
68194-13-8	PCB-147/149	C	3520	3520	pg/L	43.6
74472-41-6	PCB-148	U	21.8	21.8	pg/L	21.8
68194-08-1	PCB-150	U	21.8	21.8	pg/L	21.8
68194-09-2	PCB-152	U	21.8	21.8	pg/L	21.8
35065-27-1	PCB-153/168	C	3510	3500	pg/L	43.6
60145-22-4	PCB-154		32.3	30.9	pg/L	21.8
33979-03-2	PCB-155	U	21.8	21.8	pg/L	21.8
38380-08-4	PCB-156/157	C	511	509	pg/L	43.6
74472-42-7	PCB-158		494	492	pg/L	21.8
39635-35-3	PCB-159	U	21.8	21.8	pg/L	21.8
41411-62-5	PCB-160	U	21.8	21.8	pg/L	21.8
74472-43-8	PCB-161	U	21.8	21.8	pg/L	21.8
39635-34-2	PCB-162	U	21.8	21.8	pg/L	21.8
74472-45-0	PCB-164		371	369	pg/L	21.8

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 11-3248
Lab Sample ID: 2664001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10619
Batch ID: 19545
Run Date: 09/09/2011 23:19
Data File: c09sep11a-7
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 917.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.8	21.8	pg/L	21.8
52663-72-6	PCB-167		201	200	pg/L	21.8
32774-16-6	PCB-169	U	21.8	21.8	pg/L	21.8
35065-30-6	PCB-170		1290	1290	pg/L	21.8
52663-71-5	PCB-173/171	C	393	392	pg/L	43.6
52663-74-8	PCB-172		229	228	pg/L	21.8
38411-25-5	PCB-174		1450	1450	pg/L	21.8
40186-70-7	PCB-175		53.8	52.4	pg/L	21.8
52663-65-7	PCB-176		156	154	pg/L	21.8
52663-70-4	PCB-177		722	721	pg/L	21.8
52663-67-9	PCB-178		241	240	pg/L	21.8
52663-64-6	PCB-179		494	493	pg/L	21.8
35065-29-3	PCB-193/180	C	3100	3100	pg/L	43.6
74472-47-2	PCB-181	U	21.8	21.8	pg/L	21.8
60145-23-5	PCB-182	U	21.8	21.8	pg/L	21.8
52663-69-1	PCB-183/185	C	807	806	pg/L	43.6
74472-48-3	PCB-184	U	21.8	21.8	pg/L	21.8
74472-49-4	PCB-186	U	21.8	21.8	pg/L	21.8
52663-68-0	PCB-187		1350	1350	pg/L	21.8
74487-85-7	PCB-188	U	21.8	21.8	pg/L	21.8
39635-31-9	PCB-189		58.2	57.1	pg/L	21.8
41411-64-7	PCB-190		263	262	pg/L	21.8
74472-50-7	PCB-191		52.2	51.2	pg/L	21.8
74472-51-8	PCB-192	U	21.8	21.8	pg/L	21.8
35694-08-7	PCB-194		635	634	pg/L	21.8
52663-78-2	PCB-195	U	21.8	21.8	pg/L	21.8
42740-50-1	PCB-196		300	299	pg/L	21.8
33091-17-7	PCB-197/200	CU	43.6	43.6	pg/L	43.6
68194-17-2	PCB-198/199	CU	43.6	43.6	pg/L	43.6
40186-71-8	PCB-201		67.2	66.2	pg/L	21.8
2136-99-4	PCB-202		97.4	96.5	pg/L	21.8
52663-76-0	PCB-203		342	340	pg/L	21.8

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 6 of 7

SDG Number: 11-3248	Client: LANL001	Project: LANL00109
Lab Sample ID: 2664001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPSAN-11-10619		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/09/2011 23:19	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a-7		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 917.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.8	21.8	pg/L	21.8
74472-53-0	PCB-205		32.0	31.2	pg/L	21.8
40186-72-9	PCB-206		159	157	pg/L	21.8
52663-79-3	PCB-207	U	21.8	21.8	pg/L	21.8
52663-77-1	PCB-208		28.7	27.7	pg/L	21.8
2051-24-3	PCB-209	U	21.8	21.8	pg/L	21.8
27323-18-8	Total Mono PCBs		25.3	22.2	pg/L	
25512-42-9	Total Di PCBs		477	470	pg/L	
25323-68-6	Total Tri PCBs		1030	1020	pg/L	
26914-33-0	Total Tetra PCBs		4500	4450	pg/L	
25429-29-2	Total Penta PCBs		12300	12200	pg/L	
26601-64-9	Total Hexa PCBs		19700	19700	pg/L	
28655-71-2	Total Hepta PCBs		10700	10600	pg/L	
55722-26-4	Total Octa PCBs		1470	1470	pg/L	
53742-07-7	Total Nona PCBs		187	185	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		50400	50200	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1460	2180	pg/L	67.1	(15%-150%)
13C-3-MoCB		1640	2180	pg/L	75.4	(15%-150%)
13C-4-DiCB		1850	2180	pg/L	84.6	(25%-150%)
13C-15-DiCB		2090	2180	pg/L	96.0	(25%-150%)
13C-19-TrCB		2280	2180	pg/L	105	(25%-150%)
13C-37-TrCB		2020	2180	pg/L	92.5	(25%-150%)
13C-54-TeCB		2070	2180	pg/L	94.8	(25%-150%)
13C-77-TeCB		1910	2180	pg/L	87.6	(25%-150%)
13C-81-TeCB		1890	2180	pg/L	86.7	(25%-150%)
13C-104-PeCB		2080	2180	pg/L	95.4	(25%-150%)
13C-105-PeCB		1750	2180	pg/L	80.2	(25%-150%)
13C-114-PeCB		1690	2180	pg/L	77.3	(25%-150%)
13C-118-PeCB		1720	2180	pg/L	78.7	(25%-150%)
13C-123-PeCB		1830	2180	pg/L	84.0	(25%-150%)
13C-126-PeCB		1720	2180	pg/L	78.8	(25%-150%)
13C-155-HxCB		2240	2180	pg/L	103	(25%-150%)
13C-156-HxCB	C	3320	4360	pg/L	76.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1610	2180	pg/L	74.0	(25%-150%)
13C-169-HxCB		1800	2180	pg/L	82.4	(25%-150%)
13C-188-HpCB		1860	2180	pg/L	85.2	(25%-150%)
13C-189-HpCB		1440	2180	pg/L	65.8	(25%-150%)
13C-202-OcCB		1830	2180	pg/L	84.2	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248	Client: LANL001	Project: LANL00109
Lab Sample ID: 2664001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPSAN-11-10619		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/09/2011 23:19	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a-7		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 917.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1960	2180	pg/L	89.7 (25%-150%)
13C-206-NoCB			2110	2180	pg/L	96.9 (25%-150%)
13C-208-NoCB			1840	2180	pg/L	84.5 (25%-150%)
13C-209-DeCB			1950	2180	pg/L	89.7 (25%-150%)
13C-28-TrCB			1850	2180	pg/L	84.8 (30%-135%)
13C-111-PeCB			2020	2180	pg/L	92.7 (30%-135%)
13C-178-HpCB			2370	2180	pg/L	109 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3248
Lab Sample ID: 2664002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10675
Batch ID: 19545
Run Date: 09/10/2011 00:25
Data File: c09sep11a-8
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 939 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.3	21.3	pg/L	21.3
2051-61-8	PCB-2	U	21.3	21.3	pg/L	21.3
2051-62-9	PCB-3	U	21.3	21.3	pg/L	21.3
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.3	21.3	pg/L	21.3
25569-80-6	PCB-6	U	21.3	21.3	pg/L	21.3
33284-50-3	PCB-7	U	21.3	21.3	pg/L	21.3
34883-43-7	PCB-8	U	21.3	21.3	pg/L	21.3
34883-39-1	PCB-9	U	21.3	21.3	pg/L	21.3
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11	B	159	155	pg/L	106
2974-92-7	PCB-13/12	CU	42.6	42.6	pg/L	42.6
34883-41-5	PCB-14	U	21.3	21.3	pg/L	21.3
2050-68-2	PCB-15		67.5	65.2	pg/L	21.3
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17		30.0	28.5	pg/L	21.3
37680-65-2	PCB-18/30	C	60.2	59.2	pg/L	42.6
38444-73-4	PCB-19	U	21.3	21.3	pg/L	21.3
38444-84-7	PCB-20/28	C	176	175	pg/L	42.6
55702-46-0	PCB-21/33	CU	42.6	42.6	pg/L	42.6
38444-85-8	PCB-22		51.4	50.5	pg/L	21.3
55720-44-0	PCB-23	U	21.3	21.3	pg/L	21.3
55702-45-9	PCB-24	U	21.3	21.3	pg/L	21.3
55712-37-3	PCB-25	U	21.3	21.3	pg/L	21.3
38444-81-4	PCB-26/29	CU	42.6	42.6	pg/L	42.6
38444-76-7	PCB-27	U	21.3	21.3	pg/L	21.3
16606-02-3	PCB-31		110	109	pg/L	21.3
38444-77-8	PCB-32		23.2	22.4	pg/L	21.3
37680-68-5	PCB-34	U	21.3	21.3	pg/L	21.3
37680-69-6	PCB-35	U	21.3	21.3	pg/L	21.3
38444-87-0	PCB-36	U	21.3	21.3	pg/L	21.3
38444-90-5	PCB-37		56.1	55.2	pg/L	21.3

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10675
Batch ID: 19545
Run Date: 09/10/2011 00:25
Data File: c09sep11a-8
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 939 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.3	21.3	pg/L	21.3
38444-88-1	PCB-39	U	21.3	21.3	pg/L	21.3
38444-93-8	PCB-40/71	C	124	122	pg/L	42.6
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42	U	21.3	21.3	pg/L	21.3
70362-46-8	PCB-43	U	21.3	21.3	pg/L	21.3
41464-39-5	PCB-44/65/47	CU	63.9	63.9	pg/L	63.9
70362-45-7	PCB-45/51	CU	42.6	42.6	pg/L	42.6
41464-47-5	PCB-46	U	21.3	21.3	pg/L	21.3
70362-47-9	PCB-48	U	21.3	21.3	pg/L	21.3
41464-40-8	PCB-69/49	C	218	217	pg/L	42.6
62796-65-0	PCB-50/53	CU	42.6	42.6	pg/L	42.6
35693-99-3	PCB-52		1010	1010	pg/L	21.3
15968-05-5	PCB-54	U	21.3	21.3	pg/L	21.3
74338-24-2	PCB-55	U	21.3	21.3	pg/L	21.3
41464-43-1	PCB-56		174	173	pg/L	21.3
70424-67-8	PCB-57	U	21.3	21.3	pg/L	21.3
41464-49-7	PCB-58	U	21.3	21.3	pg/L	21.3
74472-33-6	PCB-59/62/75	CU	63.9	63.9	pg/L	63.9
33025-41-1	PCB-60		62.3	61.1	pg/L	21.3
33284-53-6	PCB-61/76/70/74	C	954	953	pg/L	85.2
74472-34-7	PCB-63	U	21.3	21.3	pg/L	21.3
52663-58-8	PCB-64	U	21.3	21.3	pg/L	21.3
32598-10-0	PCB-66		319	318	pg/L	21.3
73575-53-8	PCB-67	U	21.3	21.3	pg/L	21.3
73575-52-7	PCB-68	U	21.3	21.3	pg/L	21.3
41464-42-0	PCB-72	U	21.3	21.3	pg/L	21.3
74338-23-1	PCB-73	U	21.3	21.3	pg/L	21.3
32598-13-3	PCB-77		112	111	pg/L	21.3
70362-49-1	PCB-78	U	21.3	21.3	pg/L	21.3
41464-48-6	PCB-79		31.6	30.6	pg/L	21.3
33284-52-5	PCB-80	U	21.3	21.3	pg/L	21.3

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10675
Batch ID: 19545
Run Date: 09/10/2011 00:25
Data File: c09sep11a-8
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 939 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.3	21.3	pg/L	21.3
52663-62-4	PCB-82		288	286	pg/L	21.3
60145-20-2	PCB-83		158	156	pg/L	21.3
52663-60-2	PCB-84		804	802	pg/L	21.3
65510-45-4	PCB-117/116/85	C	418	417	pg/L	63.9
55312-69-1	PCB-86/87/97/109/119/125	C	2280	2280	pg/L	128
55215-17-3	PCB-88/91	C	284	283	pg/L	42.6
73575-57-2	PCB-89	U	21.3	21.3	pg/L	21.3
68194-07-0	PCB-113/90/101	C	5000	5000	pg/L	63.9
52663-61-3	PCB-92		725	723	pg/L	21.3
73575-56-1	PCB-93/100	CU	42.6	42.6	pg/L	42.6
73575-55-0	PCB-94	U	21.3	21.3	pg/L	21.3
38379-99-6	PCB-95		3240	3240	pg/L	21.3
73575-54-9	PCB-96	U	21.3	21.3	pg/L	21.3
60233-25-2	PCB-102/98	C	44.5	43.2	pg/L	42.6
38380-01-7	PCB-99		1010	1010	pg/L	106
60145-21-3	PCB-103	U	21.3	21.3	pg/L	21.3
56558-16-8	PCB-104	U	21.3	21.3	pg/L	21.3
32598-14-4	PCB-105		1160	1160	pg/L	106
70424-69-0	PCB-106	U	21.3	21.3	pg/L	21.3
70424-68-9	PCB-107		235	233	pg/L	21.3
70362-41-3	PCB-108/124	C	143	142	pg/L	42.6
38380-03-9	PCB-110/115	CU	42.6	42.6	pg/L	42.6
39635-32-0	PCB-111	U	21.3	21.3	pg/L	21.3
74472-36-9	PCB-112	U	21.3	21.3	pg/L	21.3
74472-37-0	PCB-114		45.0	43.7	pg/L	21.3
31508-00-6	PCB-118		3360	3350	pg/L	21.3
68194-12-7	PCB-120	U	21.3	21.3	pg/L	21.3
56558-18-0	PCB-121	U	21.3	21.3	pg/L	21.3
76842-07-4	PCB-122		31.2	29.8	pg/L	21.3
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126		59.5	58.1	pg/L	21.3

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10675
Batch ID: 19545
Run Date: 09/10/2011 00:25
Data File: c09sep11a-8
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 939 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.3	21.3	pg/L	21.3
38380-07-3	PCB-128/166	C	1190	1190	pg/L	42.6
55215-18-4	PCB-138/163/129	C	13400	13400	pg/L	63.9
52663-66-8	PCB-130		557	554	pg/L	21.3
61798-70-7	PCB-131		94.3	91.9	pg/L	21.3
38380-05-1	PCB-132		3490	3480	pg/L	21.3
35694-04-3	PCB-133		148	146	pg/L	21.3
52704-70-8	PCB-134		508	505	pg/L	106
52744-13-5	PCB-151/135	C	4790	4790	pg/L	42.6
38411-22-2	PCB-136		1450	1450	pg/L	21.3
35694-06-5	PCB-137		197	194	pg/L	21.3
56030-56-9	PCB-139/140	C	92.0	89.8	pg/L	42.6
52712-04-6	PCB-141		3550	3540	pg/L	21.3
41411-61-4	PCB-142	U	21.3	21.3	pg/L	21.3
68194-15-0	PCB-143	U	21.3	21.3	pg/L	21.3
68194-14-9	PCB-144		634	633	pg/L	21.3
74472-40-5	PCB-145	U	21.3	21.3	pg/L	21.3
51908-16-8	PCB-146		1980	1980	pg/L	21.3
68194-13-8	PCB-147/149	C	11200	11200	pg/L	42.6
74472-41-6	PCB-148	U	21.3	21.3	pg/L	21.3
68194-08-1	PCB-150	U	21.3	21.3	pg/L	21.3
68194-09-2	PCB-152	U	21.3	21.3	pg/L	21.3
35065-27-1	PCB-153/168	C	11600	11600	pg/L	42.6
60145-22-4	PCB-154		65.9	64.5	pg/L	21.3
33979-03-2	PCB-155	U	21.3	21.3	pg/L	21.3
38380-08-4	PCB-156/157	C	1230	1230	pg/L	42.6
74472-42-7	PCB-158		1300	1300	pg/L	21.3
39635-35-3	PCB-159	U	21.3	21.3	pg/L	21.3
41411-62-5	PCB-160	U	21.3	21.3	pg/L	21.3
74472-43-8	PCB-161	U	21.3	21.3	pg/L	21.3
39635-34-2	PCB-162		57.2	56.1	pg/L	21.3
74472-45-0	PCB-164		1130	1120	pg/L	21.3

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10675
Batch ID: 19545
Run Date: 09/10/2011 00:25
Data File: c09sep11a-8
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 939 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.3	21.3	pg/L	21.3
52663-72-6	PCB-167		512	511	pg/L	21.3
32774-16-6	PCB-169		34.9	33.7	pg/L	21.3
35065-30-6	PCB-170		5500	5500	pg/L	21.3
52663-71-5	PCB-173/171	C	1720	1720	pg/L	42.6
52663-74-8	PCB-172		1000	998	pg/L	21.3
38411-25-5	PCB-174		6890	6890	pg/L	21.3
40186-70-7	PCB-175		219	218	pg/L	21.3
52663-65-7	PCB-176		643	642	pg/L	21.3
52663-70-4	PCB-177		3340	3340	pg/L	21.3
52663-67-9	PCB-178		1140	1130	pg/L	21.3
52663-64-6	PCB-179		2180	2180	pg/L	21.3
35065-29-3	PCB-193/180	C	13100	13100	pg/L	42.6
74472-47-2	PCB-181	U	21.3	21.3	pg/L	21.3
60145-23-5	PCB-182	U	21.3	21.3	pg/L	21.3
52663-69-1	PCB-183/185	C	3610	3610	pg/L	42.6
74472-48-3	PCB-184	U	21.3	21.3	pg/L	21.3
74472-49-4	PCB-186	U	21.3	21.3	pg/L	21.3
52663-68-0	PCB-187		6460	6460	pg/L	21.3
74487-85-7	PCB-188	U	21.3	21.3	pg/L	21.3
39635-31-9	PCB-189		237	236	pg/L	21.3
41411-64-7	PCB-190		1240	1240	pg/L	21.3
74472-50-7	PCB-191		210	209	pg/L	21.3
74472-51-8	PCB-192	U	21.3	21.3	pg/L	21.3
35694-08-7	PCB-194		2740	2740	pg/L	21.3
52663-78-2	PCB-195		1200	1200	pg/L	21.3
42740-50-1	PCB-196		1360	1360	pg/L	21.3
33091-17-7	PCB-197/200	C	427	426	pg/L	42.6
68194-17-2	PCB-198/199	C	2860	2860	pg/L	42.6
40186-71-8	PCB-201		303	302	pg/L	21.3
2136-99-4	PCB-202		462	461	pg/L	21.3
52663-76-0	PCB-203		1680	1670	pg/L	21.3

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3248	Client: LANL001	Project: LANL00109
Lab Sample ID: 2664002	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPSAN-11-10675		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 00:25	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a-8		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 939 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.3	21.3	pg/L	21.3
74472-53-0	PCB-205		147	146	pg/L	21.3
40186-72-9	PCB-206		558	557	pg/L	21.3
52663-79-3	PCB-207		66.4	65.4	pg/L	21.3
52663-77-1	PCB-208		97.8	96.8	pg/L	21.3
2051-24-3	PCB-209	U	21.5	21.3	pg/L	21.3
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		67.5	65.2	pg/L	
25323-68-6	Total Tri PCBs		507	500	pg/L	
26914-33-0	Total Tetra PCBs		3010	2990	pg/L	
25429-29-2	Total Penta PCBs		19300	19300	pg/L	
26601-64-9	Total Hexa PCBs		59200	59100	pg/L	
28655-71-2	Total Hepta PCBs		47500	47500	pg/L	
55722-26-4	Total Octa PCBs		11200	11200	pg/L	
53742-07-7	Total Nona PCBs		722	719	pg/L	
2051-24-3	Total Deca PCB	U	21.5	0	pg/L	
	Total PCB Congeners		141000	141000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1550	2130	pg/L	72.9	(15%-150%)
13C-3-MoCB		1670	2130	pg/L	78.4	(15%-150%)
13C-4-DiCB		1820	2130	pg/L	85.6	(25%-150%)
13C-15-DiCB		2390	2130	pg/L	112	(25%-150%)
13C-19-TrCB		2460	2130	pg/L	116	(25%-150%)
13C-37-TrCB		2100	2130	pg/L	98.6	(25%-150%)
13C-54-TeCB		1950	2130	pg/L	91.6	(25%-150%)
13C-77-TeCB		2040	2130	pg/L	96.0	(25%-150%)
13C-81-TeCB		2040	2130	pg/L	95.7	(25%-150%)
13C-104-PeCB		2070	2130	pg/L	97.2	(25%-150%)
13C-105-PeCB		1830	2130	pg/L	86.0	(25%-150%)
13C-114-PeCB		1790	2130	pg/L	84.0	(25%-150%)
13C-118-PeCB		1810	2130	pg/L	85.0	(25%-150%)
13C-123-PeCB		1910	2130	pg/L	89.7	(25%-150%)
13C-126-PeCB		1820	2130	pg/L	85.4	(25%-150%)
13C-155-HxCB		2240	2130	pg/L	105	(25%-150%)
13C-156-HxCB	C	3450	4260	pg/L	81.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1710	2130	pg/L	80.4	(25%-150%)
13C-169-HxCB		1900	2130	pg/L	89.4	(25%-150%)
13C-188-HpCB		1880	2130	pg/L	88.1	(25%-150%)
13C-189-HpCB		1460	2130	pg/L	68.8	(25%-150%)
13C-202-OcCB		1870	2130	pg/L	87.7	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248	Client: LANL001	Project: LANL00109
Lab Sample ID: 2664002	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPSAN-11-10675		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 00:25	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a-8		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 939 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-205-OcCB		2030	2130		pg/L 95.4	(25%-150%)
13C-206-NoCB		2290	2130		pg/L 107	(25%-150%)
13C-208-NoCB		1920	2130		pg/L 90.2	(25%-150%)
13C-209-DeCB		2080	2130		pg/L 97.6	(25%-150%)
13C-28-TrCB		1830	2130		pg/L 85.7	(30%-135%)
13C-111-PeCB		2140	2130		pg/L 100	(30%-135%)
13C-178-HpCB		2470	2130		pg/L 116	(30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3248
Lab Sample ID: 2664003
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10683
Batch ID: 19545
Run Date: 09/10/2011 01:30
Data File: c09sep11a-9
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.2	21.2	pg/L	21.2
2051-61-8	PCB-2	U	21.2	21.2	pg/L	21.2
2051-62-9	PCB-3	U	21.2	21.2	pg/L	21.2
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.2	21.2	pg/L	21.2
25569-80-6	PCB-6	U	21.2	21.2	pg/L	21.2
33284-50-3	PCB-7	U	21.2	21.2	pg/L	21.2
34883-43-7	PCB-8	U	21.2	21.2	pg/L	21.2
34883-39-1	PCB-9	U	21.2	21.2	pg/L	21.2
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11	B	115	112	pg/L	106
2974-92-7	PCB-13/12	CU	42.4	42.4	pg/L	42.4
34883-41-5	PCB-14	U	21.2	21.2	pg/L	21.2
2050-68-2	PCB-15	U	21.2	21.2	pg/L	21.2
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17	U	21.2	21.2	pg/L	21.2
37680-65-2	PCB-18/30	CU	42.4	42.4	pg/L	42.4
38444-73-4	PCB-19	U	21.2	21.2	pg/L	21.2
38444-84-7	PCB-20/28	CU	42.4	42.4	pg/L	42.4
55702-46-0	PCB-21/33	CU	42.4	42.4	pg/L	42.4
38444-85-8	PCB-22	U	21.2	21.2	pg/L	21.2
55720-44-0	PCB-23	U	21.2	21.2	pg/L	21.2
55702-45-9	PCB-24	U	21.2	21.2	pg/L	21.2
55712-37-3	PCB-25	U	21.2	21.2	pg/L	21.2
38444-81-4	PCB-26/29	CU	42.4	42.4	pg/L	42.4
38444-76-7	PCB-27	U	21.2	21.2	pg/L	21.2
16606-02-3	PCB-31	U	21.2	21.2	pg/L	21.2
38444-77-8	PCB-32	U	21.2	21.2	pg/L	21.2
37680-68-5	PCB-34	U	21.2	21.2	pg/L	21.2
37680-69-6	PCB-35	U	21.2	21.2	pg/L	21.2
38444-87-0	PCB-36	U	21.2	21.2	pg/L	21.2
38444-90-5	PCB-37	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664003
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10683
Batch ID: 19545
Run Date: 09/10/2011 01:30
Data File: c09sep11a-9
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.2	21.2	pg/L	21.2
38444-88-1	PCB-39	U	21.2	21.2	pg/L	21.2
38444-93-8	PCB-40/71	CU	42.4	42.4	pg/L	42.4
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42	U	21.2	21.2	pg/L	21.2
70362-46-8	PCB-43	U	21.2	21.2	pg/L	21.2
41464-39-5	PCB-44/65/47	CU	63.6	63.6	pg/L	63.6
70362-45-7	PCB-45/51	CU	42.4	42.4	pg/L	42.4
41464-47-5	PCB-46	U	21.2	21.2	pg/L	21.2
70362-47-9	PCB-48	U	21.2	21.2	pg/L	21.2
41464-40-8	PCB-69/49	CU	42.4	42.4	pg/L	42.4
62796-65-0	PCB-50/53	CU	42.4	42.4	pg/L	42.4
35693-99-3	PCB-52	U	21.2	21.2	pg/L	21.2
15968-05-5	PCB-54	U	21.2	21.2	pg/L	21.2
74338-24-2	PCB-55	U	21.2	21.2	pg/L	21.2
41464-43-1	PCB-56	U	21.2	21.2	pg/L	21.2
70424-67-8	PCB-57	U	21.2	21.2	pg/L	21.2
41464-49-7	PCB-58	U	21.2	21.2	pg/L	21.2
74472-33-6	PCB-59/62/75	CU	63.6	63.6	pg/L	63.6
33025-41-1	PCB-60	U	21.2	21.2	pg/L	21.2
33284-53-6	PCB-61/76/70/74	CU	84.8	84.8	pg/L	84.8
74472-34-7	PCB-63	U	21.2	21.2	pg/L	21.2
52663-58-8	PCB-64	U	21.2	21.2	pg/L	21.2
32598-10-0	PCB-66		26.5	25.4	pg/L	21.2
73575-53-8	PCB-67	U	21.2	21.2	pg/L	21.2
73575-52-7	PCB-68	U	21.2	21.2	pg/L	21.2
41464-42-0	PCB-72	U	21.2	21.2	pg/L	21.2
74338-23-1	PCB-73	U	21.2	21.2	pg/L	21.2
32598-13-3	PCB-77	U	21.2	21.2	pg/L	21.2
70362-49-1	PCB-78	U	21.2	21.2	pg/L	21.2
41464-48-6	PCB-79	U	21.2	21.2	pg/L	21.2
33284-52-5	PCB-80	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664003
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10683
Batch ID: 19545
Run Date: 09/10/2011 01:30
Data File: c09sep11a-9
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.2	21.2	pg/L	21.2
52663-62-4	PCB-82	U	21.2	21.2	pg/L	21.2
60145-20-2	PCB-83	U	21.2	21.2	pg/L	21.2
52663-60-2	PCB-84		33.6	32	pg/L	21.2
65510-45-4	PCB-117/116/85	CU	63.6	63.6	pg/L	63.6
55312-69-1	PCB-86/87/97/109/119/125	CU	127	127	pg/L	127
55215-17-3	PCB-88/91	CU	42.4	42.4	pg/L	42.4
73575-57-2	PCB-89	U	21.2	21.2	pg/L	21.2
68194-07-0	PCB-113/90/101	BC	154	153	pg/L	63.6
52663-61-3	PCB-92		24.0	22.7	pg/L	21.2
73575-56-1	PCB-93/100	CU	42.4	42.4	pg/L	42.4
73575-55-0	PCB-94	U	21.2	21.2	pg/L	21.2
38379-99-6	PCB-95	B	106	105	pg/L	21.2
73575-54-9	PCB-96	U	21.2	21.2	pg/L	21.2
60233-25-2	PCB-102/98	CU	42.4	42.4	pg/L	42.4
38380-01-7	PCB-99	U	106	106	pg/L	106
60145-21-3	PCB-103	U	21.2	21.2	pg/L	21.2
56558-16-8	PCB-104	U	21.2	21.2	pg/L	21.2
32598-14-4	PCB-105	U	106	106	pg/L	106
70424-69-0	PCB-106	U	21.2	21.2	pg/L	21.2
70424-68-9	PCB-107	U	21.2	21.2	pg/L	21.2
70362-41-3	PCB-108/124	CU	42.4	42.4	pg/L	42.4
38380-03-9	PCB-110/115	CU	42.4	42.4	pg/L	42.4
39635-32-0	PCB-111	U	21.2	21.2	pg/L	21.2
74472-36-9	PCB-112	U	21.2	21.2	pg/L	21.2
74472-37-0	PCB-114	U	21.2	21.2	pg/L	21.2
31508-00-6	PCB-118		142	141	pg/L	21.2
68194-12-7	PCB-120	U	21.2	21.2	pg/L	21.2
56558-18-0	PCB-121	U	21.2	21.2	pg/L	21.2
76842-07-4	PCB-122	U	21.2	21.2	pg/L	21.2
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3248
Lab Sample ID: 2664003
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10683
Batch ID: 19545
Run Date: 09/10/2011 01:30
Data File: c09sep11a-9
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.2	21.2	pg/L	21.2
38380-07-3	PCB-128/166	CU	42.4	42.4	pg/L	42.4
55215-18-4	PCB-138/163/129	C	290	288	pg/L	63.6
52663-66-8	PCB-130	U	21.2	21.2	pg/L	21.2
61798-70-7	PCB-131	U	21.2	21.2	pg/L	21.2
38380-05-1	PCB-132		84.2	81.9	pg/L	21.2
35694-04-3	PCB-133	U	21.2	21.2	pg/L	21.2
52704-70-8	PCB-134	U	106	106	pg/L	106
52744-13-5	PCB-151/135	C	85.4	84.1	pg/L	42.4
38411-22-2	PCB-136		28.2	27.1	pg/L	21.2
35694-06-5	PCB-137	U	21.2	21.2	pg/L	21.2
56030-56-9	PCB-139/140	CU	42.4	42.4	pg/L	42.4
52712-04-6	PCB-141		64.4	61.6	pg/L	21.2
41411-61-4	PCB-142	U	21.2	21.2	pg/L	21.2
68194-15-0	PCB-143	U	21.2	21.2	pg/L	21.2
68194-14-9	PCB-144	U	21.2	21.2	pg/L	21.2
74472-40-5	PCB-145	U	21.2	21.2	pg/L	21.2
51908-16-8	PCB-146		45.5	43.1	pg/L	21.2
68194-13-8	PCB-147/149	C	211	205	pg/L	42.4
74472-41-6	PCB-148	U	21.2	21.2	pg/L	21.2
68194-08-1	PCB-150	U	21.2	21.2	pg/L	21.2
68194-09-2	PCB-152	U	21.2	21.2	pg/L	21.2
35065-27-1	PCB-153/168	C	217	215	pg/L	42.4
60145-22-4	PCB-154	U	21.2	21.2	pg/L	21.2
33979-03-2	PCB-155	U	21.2	21.2	pg/L	21.2
38380-08-4	PCB-156/157	CU	42.4	42.4	pg/L	42.4
74472-42-7	PCB-158		32.1	30.3	pg/L	21.2
39635-35-3	PCB-159	U	21.2	21.2	pg/L	21.2
41411-62-5	PCB-160	U	21.2	21.2	pg/L	21.2
74472-43-8	PCB-161	U	21.2	21.2	pg/L	21.2
39635-34-2	PCB-162	U	21.2	21.2	pg/L	21.2
74472-45-0	PCB-164		24.4	22.3	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3248
Lab Sample ID: 2664003
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10683
Batch ID: 19545
Run Date: 09/10/2011 01:30
Data File: c09sep11a-9
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.2	21.2	pg/L	21.2
52663-72-6	PCB-167	U	21.2	21.2	pg/L	21.2
32774-16-6	PCB-169	U	21.2	21.2	pg/L	21.2
35065-30-6	PCB-170		91.7	90.2	pg/L	21.2
52663-71-5	PCB-173/171	CU	42.4	42.4	pg/L	42.4
52663-74-8	PCB-172	U	21.2	21.2	pg/L	21.2
38411-25-5	PCB-174		103	101	pg/L	21.2
40186-70-7	PCB-175	U	21.2	21.2	pg/L	21.2
52663-65-7	PCB-176	U	21.2	21.2	pg/L	21.2
52663-70-4	PCB-177		52.0	50.6	pg/L	21.2
52663-67-9	PCB-178	U	21.2	21.2	pg/L	21.2
52663-64-6	PCB-179		29.9	28.8	pg/L	21.2
35065-29-3	PCB-193/180	C	230	229	pg/L	42.4
74472-47-2	PCB-181	U	21.2	21.2	pg/L	21.2
60145-23-5	PCB-182	U	21.2	21.2	pg/L	21.2
52663-69-1	PCB-183/185	C	56.7	55.4	pg/L	42.4
74472-48-3	PCB-184	U	21.2	21.2	pg/L	21.2
74472-49-4	PCB-186	U	21.2	21.2	pg/L	21.2
52663-68-0	PCB-187		97.2	95.9	pg/L	21.2
74487-85-7	PCB-188	U	21.2	21.2	pg/L	21.2
39635-31-9	PCB-189	U	21.2	21.2	pg/L	21.2
41411-64-7	PCB-190	U	21.2	21.2	pg/L	21.2
74472-50-7	PCB-191	U	21.2	21.2	pg/L	21.2
74472-51-8	PCB-192	U	21.2	21.2	pg/L	21.2
35694-08-7	PCB-194		53.9	53	pg/L	21.2
52663-78-2	PCB-195	U	21.2	21.2	pg/L	21.2
42740-50-1	PCB-196		24.1	22.8	pg/L	21.2
33091-17-7	PCB-197/200	CU	42.4	42.4	pg/L	42.4
68194-17-2	PCB-198/199	C	52.2	50.9	pg/L	42.4
40186-71-8	PCB-201	U	21.2	21.2	pg/L	21.2
2136-99-4	PCB-202	U	21.2	21.2	pg/L	21.2
52663-76-0	PCB-203		30.3	29.1	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3248	Client: LANL001	Project: LANL00109
Lab Sample ID: 2664003	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPSAN-11-10683		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 01:30	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a-9		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 943.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.2	21.2	pg/L	21.2
74472-53-0	PCB-205	U	21.2	21.2	pg/L	21.2
40186-72-9	PCB-206	U	21.2	21.2	pg/L	21.2
52663-79-3	PCB-207	U	21.2	21.2	pg/L	21.2
52663-77-1	PCB-208	U	21.2	21.2	pg/L	21.2
2051-24-3	PCB-209	U	21.2	21.2	pg/L	21.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		0.00	25.4	pg/L	
25429-29-2	Total Penta PCBs		200	195	pg/L	
26601-64-9	Total Hexa PCBs		1080	1060	pg/L	
28655-71-2	Total Hepta PCBs		661	651	pg/L	
55722-26-4	Total Octa PCBs		161	156	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		2100	2090	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1280	2120	pg/L	60.4	(15%-150%)
13C-3-MoCB		1330	2120	pg/L	62.7	(15%-150%)
13C-4-DiCB		1530	2120	pg/L	72.2	(25%-150%)
13C-15-DiCB		2120	2120	pg/L	99.7	(25%-150%)
13C-19-TrCB		2150	2120	pg/L	102	(25%-150%)
13C-37-TrCB		1910	2120	pg/L	90.1	(25%-150%)
13C-54-TeCB		1700	2120	pg/L	80.1	(25%-150%)
13C-77-TeCB		1890	2120	pg/L	89.1	(25%-150%)
13C-81-TeCB		1890	2120	pg/L	89.0	(25%-150%)
13C-104-PeCB		1900	2120	pg/L	89.5	(25%-150%)
13C-105-PeCB		1710	2120	pg/L	80.7	(25%-150%)
13C-114-PeCB		1640	2120	pg/L	77.5	(25%-150%)
13C-118-PeCB		1670	2120	pg/L	78.8	(25%-150%)
13C-123-PeCB		1770	2120	pg/L	83.7	(25%-150%)
13C-126-PeCB		1680	2120	pg/L	79.3	(25%-150%)
13C-155-HxCB		2060	2120	pg/L	97.3	(25%-150%)
13C-156-HxCB	C	3210	4240	pg/L	75.7	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1560	2120	pg/L	73.6	(25%-150%)
13C-169-HxCB		1800	2120	pg/L	84.9	(25%-150%)
13C-188-HpCB		1730	2120	pg/L	81.7	(25%-150%)
13C-189-HpCB		1370	2120	pg/L	64.5	(25%-150%)
13C-202-OcCB		1730	2120	pg/L	81.5	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3248	Client: LANL001	Project: LANL00109
Lab Sample ID: 2664003	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPSAN-11-10683		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 01:30	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a-9		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 943.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1870	2120	pg/L	88.2 (25%-150%)
13C-206-NoCB			2090	2120	pg/L	98.6 (25%-150%)
13C-208-NoCB			1770	2120	pg/L	83.7 (25%-150%)
13C-209-DeCB			1910	2120	pg/L	89.8 (25%-150%)
13C-28-TrCB			1610	2120	pg/L	75.8 (30%-135%)
13C-111-PeCB			1930	2120	pg/L	91.0 (30%-135%)
13C-178-HpCB			2280	2120	pg/L	107 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3250
Lab Sample ID: 2665001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10986
Batch ID: 19545
Run Date: 09/17/2011 15:05
Data File: c16sep11a_3-6
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 927.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	216	216	pg/L	216
2051-61-8	PCB-2	U	216	216	pg/L	216
2051-62-9	PCB-3	U	216	216	pg/L	216
13029-08-8	PCB-4	U	1080	1080	pg/L	1080
16605-91-7	PCB-5	U	216	216	pg/L	216
25569-80-6	PCB-6	U	216	216	pg/L	216
33284-50-3	PCB-7	U	216	216	pg/L	216
34883-43-7	PCB-8	U	216	216	pg/L	216
34883-39-1	PCB-9	U	216	216	pg/L	216
33146-45-1	PCB-10	U	1080	1080	pg/L	1080
2050-67-1	PCB-11	U	1080	1080	pg/L	1080
2974-92-7	PCB-13/12	CU	431	431	pg/L	431
34883-41-5	PCB-14	U	216	216	pg/L	216
2050-68-2	PCB-15	U	216	216	pg/L	216
38444-78-9	PCB-16	U	1080	1080	pg/L	1080
37680-66-3	PCB-17	U	216	216	pg/L	216
37680-65-2	PCB-18/30	CU	431	431	pg/L	431
38444-73-4	PCB-19	U	216	216	pg/L	216
38444-84-7	PCB-20/28	CU	431	431	pg/L	431
55702-46-0	PCB-21/33	CU	431	431	pg/L	431
38444-85-8	PCB-22	U	216	216	pg/L	216
55720-44-0	PCB-23	U	216	216	pg/L	216
55702-45-9	PCB-24	U	216	216	pg/L	216
55712-37-3	PCB-25	U	216	216	pg/L	216
38444-81-4	PCB-26/29	CU	431	431	pg/L	431
38444-76-7	PCB-27	U	216	216	pg/L	216
16606-02-3	PCB-31	U	216	216	pg/L	216
38444-77-8	PCB-32	U	216	216	pg/L	216
37680-68-5	PCB-34	U	216	216	pg/L	216
37680-69-6	PCB-35	U	216	216	pg/L	216
38444-87-0	PCB-36	U	216	216	pg/L	216
38444-90-5	PCB-37	U	216	216	pg/L	216

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3250	Client: LANL001	Project: LANL00109
Lab Sample ID: 2665001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPMOR-11-10986		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/17/2011 15:05	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-6		Dilution: 10
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 927.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	216	216	pg/L	216
38444-88-1	PCB-39	U	216	216	pg/L	216
38444-93-8	PCB-40/71	CU	431	431	pg/L	431
52663-59-9	PCB-41	U	1080	1080	pg/L	1080
36559-22-5	PCB-42	U	216	216	pg/L	216
70362-46-8	PCB-43	U	216	216	pg/L	216
41464-39-5	PCB-44/65/47	CU	647	647	pg/L	647
70362-45-7	PCB-45/51	CU	431	431	pg/L	431
41464-47-5	PCB-46	U	216	216	pg/L	216
70362-47-9	PCB-48	U	216	216	pg/L	216
41464-40-8	PCB-69/49	CU	431	431	pg/L	431
62796-65-0	PCB-50/53	CU	431	431	pg/L	431
35693-99-3	PCB-52		329	327	pg/L	216
15968-05-5	PCB-54	U	216	216	pg/L	216
74338-24-2	PCB-55	U	216	216	pg/L	216
41464-43-1	PCB-56	U	216	216	pg/L	216
70424-67-8	PCB-57	U	216	216	pg/L	216
41464-49-7	PCB-58	U	216	216	pg/L	216
74472-33-6	PCB-59/62/75	CU	647	647	pg/L	647
33025-41-1	PCB-60	U	216	216	pg/L	216
33284-53-6	PCB-61/76/70/74	CU	863	863	pg/L	863
74472-34-7	PCB-63	U	216	216	pg/L	216
52663-58-8	PCB-64	U	216	216	pg/L	216
32598-10-0	PCB-66	U	216	216	pg/L	216
73575-53-8	PCB-67	U	216	216	pg/L	216
73575-52-7	PCB-68	U	216	216	pg/L	216
41464-42-0	PCB-72	U	216	216	pg/L	216
74338-23-1	PCB-73	U	216	216	pg/L	216
32598-13-3	PCB-77	U	216	216	pg/L	216
70362-49-1	PCB-78	U	216	216	pg/L	216
41464-48-6	PCB-79	U	216	216	pg/L	216
33284-52-5	PCB-80	U	216	216	pg/L	216

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3250	Client: LANL001	Project: LANL00109
Lab Sample ID: 2665001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPMOR-11-10986		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/17/2011 15:05	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-6		Dilution: 10
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 927.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	216	216	pg/L	216
52663-62-4	PCB-82	U	216	216	pg/L	216
60145-20-2	PCB-83	U	216	216	pg/L	216
52663-60-2	PCB-84	U	216	216	pg/L	216
65510-45-4	PCB-117/116/85	CU	647	647	pg/L	647
55312-69-1	PCB-86/87/97/109/119/125	CU	1290	1290	pg/L	1290
55215-17-3	PCB-88/91	CU	431	431	pg/L	431
73575-57-2	PCB-89	U	216	216	pg/L	216
68194-07-0	PCB-113/90/101	C	1460	1460	pg/L	647
52663-61-3	PCB-92		227	226	pg/L	216
73575-56-1	PCB-93/100	CU	431	431	pg/L	431
73575-55-0	PCB-94	U	216	216	pg/L	216
38379-99-6	PCB-95		1200	1200	pg/L	216
73575-54-9	PCB-96	U	216	216	pg/L	216
60233-25-2	PCB-102/98	CU	431	431	pg/L	431
38380-01-7	PCB-99	U	1080	1080	pg/L	1080
60145-21-3	PCB-103	U	216	216	pg/L	216
56558-16-8	PCB-104	U	216	216	pg/L	216
32598-14-4	PCB-105	U	1080	1080	pg/L	1080
70424-69-0	PCB-106	U	216	216	pg/L	216
70424-68-9	PCB-107	U	216	216	pg/L	216
70362-41-3	PCB-108/124	CU	431	431	pg/L	431
38380-03-9	PCB-110/115	CU	431	431	pg/L	431
39635-32-0	PCB-111	U	216	216	pg/L	216
74472-36-9	PCB-112	U	216	216	pg/L	216
74472-37-0	PCB-114	U	216	216	pg/L	216
31508-00-6	PCB-118		918	916	pg/L	216
68194-12-7	PCB-120	U	216	216	pg/L	216
56558-18-0	PCB-121	U	216	216	pg/L	216
76842-07-4	PCB-122	U	216	216	pg/L	216
65510-44-3	PCB-123	U	1080	1080	pg/L	1080
57465-28-8	PCB-126	U	216	216	pg/L	216

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3250	Client: LANL001	Project: LANL00109
Lab Sample ID: 2665001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPMOR-11-10986		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/17/2011 15:05	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-6		Dilution: 10
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 927.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	216	216	pg/L	216
38380-07-3	PCB-128/166	C	527	525	pg/L	431
55215-18-4	PCB-138/163/129	C	7050	7050	pg/L	647
52663-66-8	PCB-130	U	216	216	pg/L	216
61798-70-7	PCB-131	U	216	216	pg/L	216
38380-05-1	PCB-132		1730	1730	pg/L	216
35694-04-3	PCB-133	U	216	216	pg/L	216
52704-70-8	PCB-134	U	1080	1080	pg/L	1080
52744-13-5	PCB-151/135	C	2860	2860	pg/L	431
38411-22-2	PCB-136		788	787	pg/L	216
35694-06-5	PCB-137	U	216	216	pg/L	216
56030-56-9	PCB-139/140	CU	431	431	pg/L	431
52712-04-6	PCB-141	U	216	216	pg/L	216
41411-61-4	PCB-142	U	216	216	pg/L	216
68194-15-0	PCB-143	U	216	216	pg/L	216
68194-14-9	PCB-144		344	343	pg/L	216
74472-40-5	PCB-145	U	216	216	pg/L	216
51908-16-8	PCB-146	U	216	216	pg/L	216
68194-13-8	PCB-147/149	C	6520	6510	pg/L	431
74472-41-6	PCB-148	U	216	216	pg/L	216
68194-08-1	PCB-150	U	216	216	pg/L	216
68194-09-2	PCB-152	U	216	216	pg/L	216
35065-27-1	PCB-153/168	CU	431	431	pg/L	431
60145-22-4	PCB-154	U	216	216	pg/L	216
33979-03-2	PCB-155	U	216	216	pg/L	216
38380-08-4	PCB-156/157	CU	431	431	pg/L	431
74472-42-7	PCB-158		648	646	pg/L	216
39635-35-3	PCB-159	U	216	216	pg/L	216
41411-62-5	PCB-160	U	216	216	pg/L	216
74472-43-8	PCB-161	U	216	216	pg/L	216
39635-34-2	PCB-162	U	216	216	pg/L	216
74472-45-0	PCB-164		643	640	pg/L	216

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 5 of 7

SDG Number: 11-3250
Lab Sample ID: 2665001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10986
Batch ID: 19545
Run Date: 09/17/2011 15:05
Data File: c16sep11a_3-6
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/15/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 927.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	216	216	pg/L	216
52663-72-6	PCB-167		224	223	pg/L	216
32774-16-6	PCB-169	U	216	216	pg/L	216
35065-30-6	PCB-170		3330	3320	pg/L	216
52663-71-5	PCB-173/171	C	1040	1040	pg/L	431
52663-74-8	PCB-172		618	616	pg/L	216
38411-25-5	PCB-174		4700	4700	pg/L	216
40186-70-7	PCB-175	U	216	216	pg/L	216
52663-65-7	PCB-176		398	396	pg/L	216
52663-70-4	PCB-177		2180	2180	pg/L	216
52663-67-9	PCB-178		773	772	pg/L	216
52663-64-6	PCB-179		1510	1510	pg/L	216
35065-29-3	PCB-193/180	C	8780	8780	pg/L	431
74472-47-2	PCB-181	U	216	216	pg/L	216
60145-23-5	PCB-182	U	216	216	pg/L	216
52663-69-1	PCB-183/185	C	2250	2250	pg/L	431
74472-48-3	PCB-184	U	216	216	pg/L	216
74472-49-4	PCB-186	U	216	216	pg/L	216
52663-68-0	PCB-187		4300	4290	pg/L	216
74487-85-7	PCB-188	U	216	216	pg/L	216
39635-31-9	PCB-189	U	216	216	pg/L	216
41411-64-7	PCB-190		716	715	pg/L	216
74472-50-7	PCB-191	U	216	216	pg/L	216
74472-51-8	PCB-192	U	216	216	pg/L	216
35694-08-7	PCB-194		1690	1690	pg/L	216
52663-78-2	PCB-195	U	216	216	pg/L	216
42740-50-1	PCB-196		818	817	pg/L	216
33091-17-7	PCB-197/200	CU	431	431	pg/L	431
68194-17-2	PCB-198/199	C	1830	1830	pg/L	431
40186-71-8	PCB-201	U	216	216	pg/L	216
2136-99-4	PCB-202		317	316	pg/L	216
52663-76-0	PCB-203	U	216	216	pg/L	216

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3250	Client: LANL001	Project: LANL00109
Lab Sample ID: 2665001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPMOR-11-10986		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/17/2011 15:05	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-6		Dilution: 10
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 927.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	216	216	pg/L	216
74472-53-0	PCB-205	U	216	216	pg/L	216
40186-72-9	PCB-206		364	363	pg/L	216
52663-79-3	PCB-207	U	216	216	pg/L	216
52663-77-1	PCB-208	U	216	216	pg/L	216
2051-24-3	PCB-209	U	216	216	pg/L	216
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		329	327	pg/L	
25429-29-2	Total Penta PCBs		3810	3800	pg/L	
26601-64-9	Total Hexa PCBs		21300	21300	pg/L	
28655-71-2	Total Hepta PCBs		30600	30600	pg/L	
55722-26-4	Total Octa PCBs		4650	4650	pg/L	
53742-07-7	Total Nona PCBs		364	363	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		61100	61000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1330	2160	pg/L	61.7	(15%-150%)
13C-3-MoCB		1650	2160	pg/L	76.4	(15%-150%)
13C-4-DiCB		1710	2160	pg/L	79.3	(25%-150%)
13C-15-DiCB		1920	2160	pg/L	88.9	(25%-150%)
13C-19-TrCB		2000	2160	pg/L	92.5	(25%-150%)
13C-37-TrCB		2020	2160	pg/L	93.7	(25%-150%)
13C-54-TeCB		2040	2160	pg/L	94.6	(25%-150%)
13C-77-TeCB		1950	2160	pg/L	90.6	(25%-150%)
13C-81-TeCB		1960	2160	pg/L	90.8	(25%-150%)
13C-104-PeCB		2020	2160	pg/L	93.5	(25%-150%)
13C-105-PeCB		1820	2160	pg/L	84.3	(25%-150%)
13C-114-PeCB		1730	2160	pg/L	80.3	(25%-150%)
13C-118-PeCB		1730	2160	pg/L	80.2	(25%-150%)
13C-123-PeCB		1860	2160	pg/L	86.1	(25%-150%)
13C-126-PeCB		1780	2160	pg/L	82.3	(25%-150%)
13C-155-HxCB		2180	2160	pg/L	101	(25%-150%)
13C-156-HxCB	C	3320	4310	pg/L	76.9	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1640	2160	pg/L	76.1	(25%-150%)
13C-169-HxCB		1880	2160	pg/L	87.0	(25%-150%)
13C-188-HpCB		1780	2160	pg/L	82.4	(25%-150%)
13C-189-HpCB		1410	2160	pg/L	65.6	(25%-150%)
13C-202-OcCB		1770	2160	pg/L	81.9	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3250	Client: LANL001	Project: LANL00109
Lab Sample ID: 2665001	Date Collected: 08/15/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPMOR-11-10986		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/17/2011 15:05	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-6		Dilution: 10
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 927.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-205-OcCB		1960	2160		pg/L	91.0 (25%-150%)
13C-206-NoCB		2200	2160		pg/L	102 (25%-150%)
13C-208-NoCB		1840	2160		pg/L	85.5 (25%-150%)
13C-209-DeCB		2130	2160		pg/L	98.6 (25%-150%)
13C-28-TrCB		1880	2160		pg/L	87.1 (30%-135%)
13C-111-PeCB		2040	2160		pg/L	94.3 (30%-135%)
13C-178-HpCB		2410	2160		pg/L	112 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3252
Lab Sample ID: 2666001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11149
Batch ID: 19545
Run Date: 09/10/2011 07:10
Data File: c09sep11a_2-3
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.2	21.2	pg/L	21.2
2051-61-8	PCB-2	U	21.2	21.2	pg/L	21.2
2051-62-9	PCB-3	U	21.2	21.2	pg/L	21.2
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.2	21.2	pg/L	21.2
25569-80-6	PCB-6	U	21.2	21.2	pg/L	21.2
33284-50-3	PCB-7	U	21.2	21.2	pg/L	21.2
34883-43-7	PCB-8	U	21.2	21.2	pg/L	21.2
34883-39-1	PCB-9	U	21.2	21.2	pg/L	21.2
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11	B	200	197	pg/L	106
2974-92-7	PCB-13/12	CU	42.4	42.4	pg/L	42.4
34883-41-5	PCB-14	U	21.2	21.2	pg/L	21.2
2050-68-2	PCB-15	U	21.2	21.2	pg/L	21.2
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17	U	21.2	21.2	pg/L	21.2
37680-65-2	PCB-18/30	CU	42.4	42.4	pg/L	42.4
38444-73-4	PCB-19	U	21.2	21.2	pg/L	21.2
38444-84-7	PCB-20/28	CU	42.4	42.4	pg/L	42.4
55702-46-0	PCB-21/33	CU	42.4	42.4	pg/L	42.4
38444-85-8	PCB-22	U	21.2	21.2	pg/L	21.2
55720-44-0	PCB-23	U	21.2	21.2	pg/L	21.2
55702-45-9	PCB-24	U	21.2	21.2	pg/L	21.2
55712-37-3	PCB-25	U	21.2	21.2	pg/L	21.2
38444-81-4	PCB-26/29	CU	42.4	42.4	pg/L	42.4
38444-76-7	PCB-27	U	21.2	21.2	pg/L	21.2
16606-02-3	PCB-31	B	25.1	24.3	pg/L	21.2
38444-77-8	PCB-32	U	21.2	21.2	pg/L	21.2
37680-68-5	PCB-34	U	21.2	21.2	pg/L	21.2
37680-69-6	PCB-35	U	21.2	21.2	pg/L	21.2
38444-87-0	PCB-36	U	21.2	21.2	pg/L	21.2
38444-90-5	PCB-37	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3252
Lab Sample ID: 2666001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11149
Batch ID: 19545
Run Date: 09/10/2011 07:10
Data File: c09sep11a_2-3
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.2	21.2	pg/L	21.2
38444-88-1	PCB-39	U	21.2	21.2	pg/L	21.2
38444-93-8	PCB-40/71	CU	42.4	42.4	pg/L	42.4
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42	U	21.2	21.2	pg/L	21.2
70362-46-8	PCB-43	U	21.2	21.2	pg/L	21.2
41464-39-5	PCB-44/65/47	CU	63.6	63.6	pg/L	63.6
70362-45-7	PCB-45/51	CU	42.4	42.4	pg/L	42.4
41464-47-5	PCB-46	U	21.2	21.2	pg/L	21.2
70362-47-9	PCB-48	U	21.2	21.2	pg/L	21.2
41464-40-8	PCB-69/49	CU	42.4	42.4	pg/L	42.4
62796-65-0	PCB-50/53	CU	42.4	42.4	pg/L	42.4
35693-99-3	PCB-52		159	157	pg/L	21.2
15968-05-5	PCB-54	U	21.2	21.2	pg/L	21.2
74338-24-2	PCB-55	U	21.2	21.2	pg/L	21.2
41464-43-1	PCB-56		35.7	34.3	pg/L	21.2
70424-67-8	PCB-57	U	21.2	21.2	pg/L	21.2
41464-49-7	PCB-58	U	21.2	21.2	pg/L	21.2
74472-33-6	PCB-59/62/75	CU	63.6	63.6	pg/L	63.6
33025-41-1	PCB-60	U	21.2	21.2	pg/L	21.2
33284-53-6	PCB-61/76/70/74	C	209	208	pg/L	84.8
74472-34-7	PCB-63	U	21.2	21.2	pg/L	21.2
52663-58-8	PCB-64	U	21.2	21.2	pg/L	21.2
32598-10-0	PCB-66		57.6	56.5	pg/L	21.2
73575-53-8	PCB-67	U	21.2	21.2	pg/L	21.2
73575-52-7	PCB-68	U	21.2	21.2	pg/L	21.2
41464-42-0	PCB-72	U	21.2	21.2	pg/L	21.2
74338-23-1	PCB-73	U	21.2	21.2	pg/L	21.2
32598-13-3	PCB-77		69.4	68.3	pg/L	21.2
70362-49-1	PCB-78	U	21.2	21.2	pg/L	21.2
41464-48-6	PCB-79	U	21.2	21.2	pg/L	21.2
33284-52-5	PCB-80	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3252	Client: LANL001	Project: LANL00109
Lab Sample ID: 2666001	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPPAJ-11-11149		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 07:10	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a_2-3		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 943.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.2	21.2	pg/L	21.2
52663-62-4	PCB-82		60.4	59	pg/L	21.2
60145-20-2	PCB-83		25.6	24.1	pg/L	21.2
52663-60-2	PCB-84		109	108	pg/L	21.2
65510-45-4	PCB-117/116/85	C	75.4	74.3	pg/L	63.6
55312-69-1	PCB-86/87/97/109/119/125	C	390	389	pg/L	127
55215-17-3	PCB-88/91	CU	42.4	42.4	pg/L	42.4
73575-57-2	PCB-89	U	21.2	21.2	pg/L	21.2
68194-07-0	PCB-113/90/101	C	449	448	pg/L	63.6
52663-61-3	PCB-92		73.3	72	pg/L	21.2
73575-56-1	PCB-93/100	CU	42.4	42.4	pg/L	42.4
73575-55-0	PCB-94	U	21.2	21.2	pg/L	21.2
38379-99-6	PCB-95		253	252	pg/L	21.2
73575-54-9	PCB-96	U	21.2	21.2	pg/L	21.2
60233-25-2	PCB-102/98	CU	42.4	42.4	pg/L	42.4
38380-01-7	PCB-99		142	141	pg/L	106
60145-21-3	PCB-103	U	21.2	21.2	pg/L	21.2
56558-16-8	PCB-104	U	21.2	21.2	pg/L	21.2
32598-14-4	PCB-105		246	245	pg/L	106
70424-69-0	PCB-106	U	21.2	21.2	pg/L	21.2
70424-68-9	PCB-107		46.4	44.9	pg/L	21.2
70362-41-3	PCB-108/124	CU	42.4	42.4	pg/L	42.4
38380-03-9	PCB-110/115	CU	42.4	42.4	pg/L	42.4
39635-32-0	PCB-111	U	21.2	21.2	pg/L	21.2
74472-36-9	PCB-112	U	21.2	21.2	pg/L	21.2
74472-37-0	PCB-114	U	21.2	21.2	pg/L	21.2
31508-00-6	PCB-118		594	592	pg/L	21.2
68194-12-7	PCB-120	U	21.2	21.2	pg/L	21.2
56558-18-0	PCB-121	U	21.2	21.2	pg/L	21.2
76842-07-4	PCB-122	U	21.2	21.2	pg/L	21.2
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126		23.7	22.3	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3252	Client: LANL001	Project: LANL00109
Lab Sample ID: 2666001	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPPAJ-11-11149		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 07:10	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a_2-3		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 943.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.2	21.2	pg/L	21.2
38380-07-3	PCB-128/166	C	172	170	pg/L	42.4
55215-18-4	PCB-138/163/129	C	915	913	pg/L	63.6
52663-66-8	PCB-130		58.4	56	pg/L	21.2
61798-70-7	PCB-131	U	21.2	21.2	pg/L	21.2
38380-05-1	PCB-132		237	235	pg/L	21.2
35694-04-3	PCB-133	U	21.2	21.2	pg/L	21.2
52704-70-8	PCB-134	U	106	106	pg/L	106
52744-13-5	PCB-151/135	C	131	129	pg/L	42.4
38411-22-2	PCB-136		49.1	48	pg/L	21.2
35694-06-5	PCB-137		43.2	41.1	pg/L	21.2
56030-56-9	PCB-139/140	CU	42.4	42.4	pg/L	42.4
52712-04-6	PCB-141		143	141	pg/L	21.2
41411-61-4	PCB-142	U	21.2	21.2	pg/L	21.2
68194-15-0	PCB-143	U	21.2	21.2	pg/L	21.2
68194-14-9	PCB-144	U	21.2	21.2	pg/L	21.2
74472-40-5	PCB-145	U	21.2	21.2	pg/L	21.2
51908-16-8	PCB-146		101	99	pg/L	21.2
68194-13-8	PCB-147/149	C	399	393	pg/L	42.4
74472-41-6	PCB-148	U	21.2	21.2	pg/L	21.2
68194-08-1	PCB-150	U	21.2	21.2	pg/L	21.2
68194-09-2	PCB-152	U	21.2	21.2	pg/L	21.2
35065-27-1	PCB-153/168	C	492	490	pg/L	42.4
60145-22-4	PCB-154	U	21.2	21.2	pg/L	21.2
33979-03-2	PCB-155	U	21.2	21.2	pg/L	21.2
38380-08-4	PCB-156/157	C	145	143	pg/L	42.4
74472-42-7	PCB-158		116	114	pg/L	21.2
39635-35-3	PCB-159	U	21.2	21.2	pg/L	21.2
41411-62-5	PCB-160	U	21.2	21.2	pg/L	21.2
74472-43-8	PCB-161	U	21.2	21.2	pg/L	21.2
39635-34-2	PCB-162	U	21.2	21.2	pg/L	21.2
74472-45-0	PCB-164		72.6	70.5	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3252
Lab Sample ID: 2666001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11149
Batch ID: 19545
Run Date: 09/10/2011 07:10
Data File: c09sep11a_2-3
Prep Batch: 19518
Prep Date: 07-SEP-11

Client: LANL001
Date Collected: 08/13/2011 12:00
Date Received: 08/19/2011 10:10

Method: EPA Method 1668A
Analyst: HMP

Prep Method: SW846 3520C
Aliquot: 943.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.2	21.2	pg/L	21.2
52663-72-6	PCB-167		55.9	54.8	pg/L	21.2
32774-16-6	PCB-169	U	21.2	21.2	pg/L	21.2
35065-30-6	PCB-170		137	136	pg/L	21.2
52663-71-5	PCB-173/171	CU	42.4	42.4	pg/L	42.4
52663-74-8	PCB-172	U	21.2	21.2	pg/L	21.2
38411-25-5	PCB-174		106	105	pg/L	21.2
40186-70-7	PCB-175	U	21.2	21.2	pg/L	21.2
52663-65-7	PCB-176	U	21.2	21.2	pg/L	21.2
52663-70-4	PCB-177		54.3	52.8	pg/L	21.2
52663-67-9	PCB-178	U	21.2	21.2	pg/L	21.2
52663-64-6	PCB-179		24.4	23.3	pg/L	21.2
35065-29-3	PCB-193/180	C	247	245	pg/L	42.4
74472-47-2	PCB-181	U	21.2	21.2	pg/L	21.2
60145-23-5	PCB-182	U	21.2	21.2	pg/L	21.2
52663-69-1	PCB-183/185	C	53.7	52.4	pg/L	42.4
74472-48-3	PCB-184	U	21.2	21.2	pg/L	21.2
74472-49-4	PCB-186	U	21.2	21.2	pg/L	21.2
52663-68-0	PCB-187		85.5	84.2	pg/L	21.2
74487-85-7	PCB-188	U	21.2	21.2	pg/L	21.2
39635-31-9	PCB-189	U	21.2	21.2	pg/L	21.2
41411-64-7	PCB-190		28.6	27.5	pg/L	21.2
74472-50-7	PCB-191	U	21.2	21.2	pg/L	21.2
74472-51-8	PCB-192	U	21.2	21.2	pg/L	21.2
35694-08-7	PCB-194		33.9	33	pg/L	21.2
52663-78-2	PCB-195	U	21.2	21.2	pg/L	21.2
42740-50-1	PCB-196	U	21.2	21.2	pg/L	21.2
33091-17-7	PCB-197/200	CU	42.4	42.4	pg/L	42.4
68194-17-2	PCB-198/199	CU	42.4	42.4	pg/L	42.4
40186-71-8	PCB-201	U	21.2	21.2	pg/L	21.2
2136-99-4	PCB-202	U	21.2	21.2	pg/L	21.2
52663-76-0	PCB-203	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3252	Client: LANL001	Project: LANL00109
Lab Sample ID: 2666001	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPPAJ-11-11149		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 07:10	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a_2-3		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 943.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.2	21.2	pg/L	21.2
74472-53-0	PCB-205	U	21.2	21.2	pg/L	21.2
40186-72-9	PCB-206	U	21.2	21.2	pg/L	21.2
52663-79-3	PCB-207	U	21.2	21.2	pg/L	21.2
52663-77-1	PCB-208	U	21.2	21.2	pg/L	21.2
2051-24-3	PCB-209	U	21.2	21.2	pg/L	21.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		531	524	pg/L	
25429-29-2	Total Penta PCBs		2490	2470	pg/L	
26601-64-9	Total Hexa PCBs		3130	3100	pg/L	
28655-71-2	Total Hepta PCBs		737	726	pg/L	
55722-26-4	Total Octa PCBs		33.9	33	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		6920	6850	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1330	2120	pg/L	62.7	(15%-150%)
13C-3-MoCB		1350	2120	pg/L	63.6	(15%-150%)
13C-4-DiCB		1530	2120	pg/L	72.0	(25%-150%)
13C-15-DiCB		2070	2120	pg/L	97.5	(25%-150%)
13C-19-TrCB		2150	2120	pg/L	101	(25%-150%)
13C-37-TrCB		1860	2120	pg/L	87.7	(25%-150%)
13C-54-TeCB		1710	2120	pg/L	80.9	(25%-150%)
13C-77-TeCB		1820	2120	pg/L	85.8	(25%-150%)
13C-81-TeCB		1800	2120	pg/L	85.1	(25%-150%)
13C-104-PeCB		1810	2120	pg/L	85.2	(25%-150%)
13C-105-PeCB		1710	2120	pg/L	80.5	(25%-150%)
13C-114-PeCB		1630	2120	pg/L	77.0	(25%-150%)
13C-118-PeCB		1650	2120	pg/L	77.8	(25%-150%)
13C-123-PeCB		1750	2120	pg/L	82.7	(25%-150%)
13C-126-PeCB		1700	2120	pg/L	80.4	(25%-150%)
13C-155-HxCB		2000	2120	pg/L	94.2	(25%-150%)
13C-156-HxCB	C	3220	4240	pg/L	75.9	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1580	2120	pg/L	74.7	(25%-150%)
13C-169-HxCB		1840	2120	pg/L	86.7	(25%-150%)
13C-188-HpCB		1570	2120	pg/L	74.1	(25%-150%)
13C-189-HpCB		1330	2120	pg/L	62.6	(25%-150%)
13C-202-OcCB		1600	2120	pg/L	75.5	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3252	Client: LANL001	Project: LANL00109
Lab Sample ID: 2666001	Date Collected: 08/13/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/19/2011 10:10	
Client ID: WT_IPPAJ-11-11149		Prep Basis: As Received
Batch ID: 19545	Method: EPA Method 1668A	
Run Date: 09/10/2011 07:10	Analyst: HMP	Instrument: HRP791
Data File: c09sep11a_2-3		Dilution: 1
Prep Batch: 19518	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 07-SEP-11	Aliquot: 943.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1900	2120	pg/L	89.5 (25%-150%)
13C-206-NoCB			2120	2120	pg/L	100 (25%-150%)
13C-208-NoCB			1720	2120	pg/L	81.0 (25%-150%)
13C-209-DeCB			1980	2120	pg/L	93.4 (25%-150%)
13C-28-TrCB			1770	2120	pg/L	83.7 (30%-135%)
13C-111-PeCB			2050	2120	pg/L	96.5 (30%-135%)
13C-178-HpCB			2380	2120	pg/L	112 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3302
Lab Sample ID: 2687001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10516
Batch ID: 19559
Run Date: 09/17/2011 20:32
Data File: c16sep11a_3-11
Prep Batch: 19535
Prep Date: 08-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 08/25/2011 10:15

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 912.4 mL

Project: LANL00109
Matrix: WT

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.9	21.9	pg/L	21.9
2051-61-8	PCB-2	U	21.9	21.9	pg/L	21.9
2051-62-9	PCB-3	U	21.9	21.9	pg/L	21.9
13029-08-8	PCB-4	U	110	110	pg/L	110
16605-91-7	PCB-5	U	21.9	21.9	pg/L	21.9
25569-80-6	PCB-6	U	21.9	21.9	pg/L	21.9
33284-50-3	PCB-7	U	21.9	21.9	pg/L	21.9
34883-43-7	PCB-8	U	21.9	21.9	pg/L	21.9
34883-39-1	PCB-9	U	21.9	21.9	pg/L	21.9
33146-45-1	PCB-10	U	110	110	pg/L	110
2050-67-1	PCB-11	U	110	110	pg/L	110
2974-92-7	PCB-13/12	CU	43.8	43.8	pg/L	43.8
34883-41-5	PCB-14	U	21.9	21.9	pg/L	21.9
2050-68-2	PCB-15	U	21.9	21.9	pg/L	21.9
38444-78-9	PCB-16	U	110	110	pg/L	110
37680-66-3	PCB-17	U	21.9	21.9	pg/L	21.9
37680-65-2	PCB-18/30	CU	43.8	43.8	pg/L	43.8
38444-73-4	PCB-19	U	21.9	21.9	pg/L	21.9
38444-84-7	PCB-20/28	CU	43.8	43.8	pg/L	43.8
55702-46-0	PCB-21/33	CU	43.8	43.8	pg/L	43.8
38444-85-8	PCB-22	U	21.9	21.9	pg/L	21.9
55720-44-0	PCB-23	U	21.9	21.9	pg/L	21.9
55702-45-9	PCB-24	U	21.9	21.9	pg/L	21.9
55712-37-3	PCB-25	U	21.9	21.9	pg/L	21.9
38444-81-4	PCB-26/29	CU	43.8	43.8	pg/L	43.8
38444-76-7	PCB-27	U	21.9	21.9	pg/L	21.9
16606-02-3	PCB-31	U	21.9	21.9	pg/L	21.9
38444-77-8	PCB-32	U	21.9	21.9	pg/L	21.9
37680-68-5	PCB-34	U	21.9	21.9	pg/L	21.9
37680-69-6	PCB-35	U	21.9	21.9	pg/L	21.9
38444-87-0	PCB-36	U	21.9	21.9	pg/L	21.9
38444-90-5	PCB-37	U	21.9	21.9	pg/L	21.9

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3302	Client: LANL001	Project: LANL00109
Lab Sample ID: 2687001	Date Collected: 08/21/2011 12:00	Matrix: WT
Client Sample: 1668A Water	Date Received: 08/25/2011 10:15	
Client ID: WT_IPLAP-11-10516		Prep Basis: As Received
Batch ID: 19559	Method: EPA Method 1668A	
Run Date: 09/17/2011 20:32	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-11		Dilution: 1
Prep Batch: 19535	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 08-SEP-11	Aliquot: 912.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.9	21.9	pg/L	21.9
38444-88-1	PCB-39	U	21.9	21.9	pg/L	21.9
38444-93-8	PCB-40/71	CU	43.8	43.8	pg/L	43.8
52663-59-9	PCB-41	U	110	110	pg/L	110
36559-22-5	PCB-42	U	21.9	21.9	pg/L	21.9
70362-46-8	PCB-43	U	21.9	21.9	pg/L	21.9
41464-39-5	PCB-44/65/47	CU	65.8	65.8	pg/L	65.8
70362-45-7	PCB-45/51	CU	43.8	43.8	pg/L	43.8
41464-47-5	PCB-46	U	21.9	21.9	pg/L	21.9
70362-47-9	PCB-48	U	21.9	21.9	pg/L	21.9
41464-40-8	PCB-69/49	CU	43.8	43.8	pg/L	43.8
62796-65-0	PCB-50/53	CU	43.8	43.8	pg/L	43.8
35693-99-3	PCB-52	B	24.4	22.4	pg/L	21.9
15968-05-5	PCB-54	U	21.9	21.9	pg/L	21.9
74338-24-2	PCB-55	U	21.9	21.9	pg/L	21.9
41464-43-1	PCB-56	U	21.9	21.9	pg/L	21.9
70424-67-8	PCB-57	U	21.9	21.9	pg/L	21.9
41464-49-7	PCB-58	U	21.9	21.9	pg/L	21.9
74472-33-6	PCB-59/62/75	CU	65.8	65.8	pg/L	65.8
33025-41-1	PCB-60	U	21.9	21.9	pg/L	21.9
33284-53-6	PCB-61/76/70/74	CU	87.7	87.7	pg/L	87.7
74472-34-7	PCB-63	U	21.9	21.9	pg/L	21.9
52663-58-8	PCB-64	U	21.9	21.9	pg/L	21.9
32598-10-0	PCB-66	U	21.9	21.9	pg/L	21.9
73575-53-8	PCB-67	U	21.9	21.9	pg/L	21.9
73575-52-7	PCB-68	U	21.9	21.9	pg/L	21.9
41464-42-0	PCB-72	U	21.9	21.9	pg/L	21.9
74338-23-1	PCB-73	U	21.9	21.9	pg/L	21.9
32598-13-3	PCB-77	U	21.9	21.9	pg/L	21.9
70362-49-1	PCB-78	U	21.9	21.9	pg/L	21.9
41464-48-6	PCB-79	U	21.9	21.9	pg/L	21.9
33284-52-5	PCB-80	U	21.9	21.9	pg/L	21.9

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3302	Client: LANL001	Project: LANL00109
Lab Sample ID: 2687001	Date Collected: 08/21/2011 12:00	Matrix: WT
Client Sample: 1668A Water	Date Received: 08/25/2011 10:15	
Client ID: WT_IPLAP-11-10516		Prep Basis: As Received
Batch ID: 19559	Method: EPA Method 1668A	
Run Date: 09/17/2011 20:32	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-11		Dilution: 1
Prep Batch: 19535	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 08-SEP-11	Aliquot: 912.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.9	21.9	pg/L	21.9
52663-62-4	PCB-82	U	21.9	21.9	pg/L	21.9
60145-20-2	PCB-83	U	21.9	21.9	pg/L	21.9
52663-60-2	PCB-84	U	21.9	21.9	pg/L	21.9
65510-45-4	PCB-117/116/85	CU	65.8	65.8	pg/L	65.8
55312-69-1	PCB-86/87/97/109/119/125	CU	132	132	pg/L	132
55215-17-3	PCB-88/91	CU	43.8	43.8	pg/L	43.8
73575-57-2	PCB-89	U	21.9	21.9	pg/L	21.9
68194-07-0	PCB-113/90/101	CU	65.8	65.8	pg/L	65.8
52663-61-3	PCB-92	U	21.9	21.9	pg/L	21.9
73575-56-1	PCB-93/100	CU	43.8	43.8	pg/L	43.8
73575-55-0	PCB-94	U	21.9	21.9	pg/L	21.9
38379-99-6	PCB-95	B	28.1	26.8	pg/L	21.9
73575-54-9	PCB-96	U	21.9	21.9	pg/L	21.9
60233-25-2	PCB-102/98	CU	43.8	43.8	pg/L	43.8
38380-01-7	PCB-99	U	110	110	pg/L	110
60145-21-3	PCB-103	U	21.9	21.9	pg/L	21.9
56558-16-8	PCB-104	U	21.9	21.9	pg/L	21.9
32598-14-4	PCB-105	U	110	110	pg/L	110
70424-69-0	PCB-106	U	21.9	21.9	pg/L	21.9
70424-68-9	PCB-107	U	21.9	21.9	pg/L	21.9
70362-41-3	PCB-108/124	CU	43.8	43.8	pg/L	43.8
38380-03-9	PCB-110/115	CU	43.8	43.8	pg/L	43.8
39635-32-0	PCB-111	U	21.9	21.9	pg/L	21.9
74472-36-9	PCB-112	U	21.9	21.9	pg/L	21.9
74472-37-0	PCB-114	U	21.9	21.9	pg/L	21.9
31508-00-6	PCB-118	U	21.9	21.9	pg/L	21.9
68194-12-7	PCB-120	U	21.9	21.9	pg/L	21.9
56558-18-0	PCB-121	U	21.9	21.9	pg/L	21.9
76842-07-4	PCB-122	U	21.9	21.9	pg/L	21.9
65510-44-3	PCB-123	U	110	110	pg/L	110
57465-28-8	PCB-126	U	21.9	21.9	pg/L	21.9

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3302	Client: LANL001	Project: LANL00109
Lab Sample ID: 2687001	Date Collected: 08/21/2011 12:00	Matrix: WT
Client Sample: 1668A Water	Date Received: 08/25/2011 10:15	
Client ID: WT_IPLAP-11-10516		Prep Basis: As Received
Batch ID: 19559	Method: EPA Method 1668A	
Run Date: 09/17/2011 20:32	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-11		Dilution: 1
Prep Batch: 19535	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 08-SEP-11	Aliquot: 912.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.9	21.9	pg/L	21.9
38380-07-3	PCB-128/166	CU	43.8	43.8	pg/L	43.8
55215-18-4	PCB-138/163/129	CU	65.8	65.8	pg/L	65.8
52663-66-8	PCB-130	U	21.9	21.9	pg/L	21.9
61798-70-7	PCB-131	U	21.9	21.9	pg/L	21.9
38380-05-1	PCB-132	U	21.9	21.9	pg/L	21.9
35694-04-3	PCB-133	U	21.9	21.9	pg/L	21.9
52704-70-8	PCB-134	U	110	110	pg/L	110
52744-13-5	PCB-151/135	CU	43.8	43.8	pg/L	43.8
38411-22-2	PCB-136	U	21.9	21.9	pg/L	21.9
35694-06-5	PCB-137	U	21.9	21.9	pg/L	21.9
56030-56-9	PCB-139/140	CU	43.8	43.8	pg/L	43.8
52712-04-6	PCB-141	U	21.9	21.9	pg/L	21.9
41411-61-4	PCB-142	U	21.9	21.9	pg/L	21.9
68194-15-0	PCB-143	U	21.9	21.9	pg/L	21.9
68194-14-9	PCB-144	U	21.9	21.9	pg/L	21.9
74472-40-5	PCB-145	U	21.9	21.9	pg/L	21.9
51908-16-8	PCB-146	U	21.9	21.9	pg/L	21.9
68194-13-8	PCB-147/149	CU	43.8	43.8	pg/L	43.8
74472-41-6	PCB-148	U	21.9	21.9	pg/L	21.9
68194-08-1	PCB-150	U	21.9	21.9	pg/L	21.9
68194-09-2	PCB-152	U	21.9	21.9	pg/L	21.9
35065-27-1	PCB-153/168	CU	43.8	43.8	pg/L	43.8
60145-22-4	PCB-154	U	21.9	21.9	pg/L	21.9
33979-03-2	PCB-155	U	21.9	21.9	pg/L	21.9
38380-08-4	PCB-156/157	CU	43.8	43.8	pg/L	43.8
74472-42-7	PCB-158	U	21.9	21.9	pg/L	21.9
39635-35-3	PCB-159	U	21.9	21.9	pg/L	21.9
41411-62-5	PCB-160	U	21.9	21.9	pg/L	21.9
74472-43-8	PCB-161	U	21.9	21.9	pg/L	21.9
39635-34-2	PCB-162	U	21.9	21.9	pg/L	21.9
74472-45-0	PCB-164	U	21.9	21.9	pg/L	21.9

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3302	Client: LANL001	Project: LANL00109
Lab Sample ID: 2687001	Date Collected: 08/21/2011 12:00	Matrix: WT
Client Sample: 1668A Water	Date Received: 08/25/2011 10:15	
Client ID: WT_IPLAP-11-10516		Prep Basis: As Received
Batch ID: 19559	Method: EPA Method 1668A	
Run Date: 09/17/2011 20:32	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-11		Dilution: 1
Prep Batch: 19535	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 08-SEP-11	Aliquot: 912.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.9	21.9	pg/L	21.9
52663-72-6	PCB-167	U	21.9	21.9	pg/L	21.9
32774-16-6	PCB-169	U	21.9	21.9	pg/L	21.9
35065-30-6	PCB-170	U	21.9	21.9	pg/L	21.9
52663-71-5	PCB-173/171	CU	43.8	43.8	pg/L	43.8
52663-74-8	PCB-172	U	21.9	21.9	pg/L	21.9
38411-25-5	PCB-174	U	21.9	21.9	pg/L	21.9
40186-70-7	PCB-175	U	21.9	21.9	pg/L	21.9
52663-65-7	PCB-176	U	21.9	21.9	pg/L	21.9
52663-70-4	PCB-177	U	21.9	21.9	pg/L	21.9
52663-67-9	PCB-178	U	21.9	21.9	pg/L	21.9
52663-64-6	PCB-179	U	21.9	21.9	pg/L	21.9
35065-29-3	PCB-193/180	CU	43.8	43.8	pg/L	43.8
74472-47-2	PCB-181	U	21.9	21.9	pg/L	21.9
60145-23-5	PCB-182	U	21.9	21.9	pg/L	21.9
52663-69-1	PCB-183/185	CU	43.8	43.8	pg/L	43.8
74472-48-3	PCB-184	U	21.9	21.9	pg/L	21.9
74472-49-4	PCB-186	U	21.9	21.9	pg/L	21.9
52663-68-0	PCB-187	U	21.9	21.9	pg/L	21.9
74487-85-7	PCB-188	U	21.9	21.9	pg/L	21.9
39635-31-9	PCB-189	U	21.9	21.9	pg/L	21.9
41411-64-7	PCB-190	U	21.9	21.9	pg/L	21.9
74472-50-7	PCB-191	U	21.9	21.9	pg/L	21.9
74472-51-8	PCB-192	U	21.9	21.9	pg/L	21.9
35694-08-7	PCB-194	U	21.9	21.9	pg/L	21.9
52663-78-2	PCB-195	U	21.9	21.9	pg/L	21.9
42740-50-1	PCB-196	U	21.9	21.9	pg/L	21.9
33091-17-7	PCB-197/200	CU	43.8	43.8	pg/L	43.8
68194-17-2	PCB-198/199	CU	43.8	43.8	pg/L	43.8
40186-71-8	PCB-201	U	21.9	21.9	pg/L	21.9
2136-99-4	PCB-202	U	21.9	21.9	pg/L	21.9
52663-76-0	PCB-203	U	21.9	21.9	pg/L	21.9

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3302	Client: LANL001	Project: LANL00109
Lab Sample ID: 2687001	Date Collected: 08/21/2011 12:00	Matrix: WT
Client Sample: 1668A Water	Date Received: 08/25/2011 10:15	
Client ID: WT_IPLAP-11-10516		Prep Basis: As Received
Batch ID: 19559	Method: EPA Method 1668A	
Run Date: 09/17/2011 20:32	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-11		Dilution: 1
Prep Batch: 19535	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 08-SEP-11	Aliquot: 912.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.9	21.9	pg/L	21.9
74472-53-0	PCB-205	U	21.9	21.9	pg/L	21.9
40186-72-9	PCB-206	U	21.9	21.9	pg/L	21.9
52663-79-3	PCB-207	U	21.9	21.9	pg/L	21.9
52663-77-1	PCB-208	U	21.9	21.9	pg/L	21.9
2051-24-3	PCB-209	U	21.9	21.9	pg/L	21.9
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs	U	0	0	pg/L	
25429-29-2	Total Penta PCBs	U	0	0	pg/L	
26601-64-9	Total Hexa PCBs	U	0	0	pg/L	
28655-71-2	Total Hepta PCBs	U	0	0	pg/L	
55722-26-4	Total Octa PCBs	U	0	0	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners	U	0	0	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		828	2190	pg/L	37.8	(15%-150%)
13C-3-MoCB		1020	2190	pg/L	46.4	(15%-150%)
13C-4-DiCB		1090	2190	pg/L	49.8	(25%-150%)
13C-15-DiCB		1360	2190	pg/L	61.9	(25%-150%)
13C-19-TrCB		1310	2190	pg/L	59.7	(25%-150%)
13C-37-TrCB		1750	2190	pg/L	80.0	(25%-150%)
13C-54-TeCB		1480	2190	pg/L	67.6	(25%-150%)
13C-77-TeCB		1900	2190	pg/L	86.6	(25%-150%)
13C-81-TeCB		1850	2190	pg/L	84.5	(25%-150%)
13C-104-PeCB		1680	2190	pg/L	76.9	(25%-150%)
13C-105-PeCB		1790	2190	pg/L	81.6	(25%-150%)
13C-114-PeCB		1700	2190	pg/L	77.8	(25%-150%)
13C-118-PeCB		1700	2190	pg/L	77.5	(25%-150%)
13C-123-PeCB		1810	2190	pg/L	82.5	(25%-150%)
13C-126-PeCB		1790	2190	pg/L	81.7	(25%-150%)
13C-155-HxCB		2010	2190	pg/L	91.5	(25%-150%)
13C-156-HxCB	C	3390	4380	pg/L	77.4	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1630	2190	pg/L	74.4	(25%-150%)
13C-169-HxCB		1910	2190	pg/L	87.2	(25%-150%)
13C-188-HpCB		1720	2190	pg/L	78.3	(25%-150%)
13C-189-HpCB		1430	2190	pg/L	65.4	(25%-150%)
13C-202-OcCB		1750	2190	pg/L	80.0	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3302	Client: LANL001	Project: LANL00109
Lab Sample ID: 2687001	Date Collected: 08/21/2011 12:00	Matrix: WT
Client Sample: 1668A Water	Date Received: 08/25/2011 10:15	
Client ID: WT_IPLAP-11-10516		Prep Basis: As Received
Batch ID: 19559	Method: EPA Method 1668A	
Run Date: 09/17/2011 20:32	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_3-11		Dilution: 1
Prep Batch: 19535	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 08-SEP-11	Aliquot: 912.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1980	2190	pg/L	90.5 (25%-150%)
13C-206-NoCB			2210	2190	pg/L	101 (25%-150%)
13C-208-NoCB			1850	2190	pg/L	84.6 (25%-150%)
13C-209-DeCB			2100	2190	pg/L	95.7 (25%-150%)
13C-28-TrCB			1470	2190	pg/L	67.1 (30%-135%)
13C-111-PeCB			2020	2190	pg/L	92.3 (30%-135%)
13C-178-HpCB			2410	2190	pg/L	110 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

1668A PCBs with High Solids Prep for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.03	0.767	2.57	
3-Chlorobiphenyl (2)	pg/L	1.19	0.756	2.71	
4-Chlorobiphenyl (3)	pg/L	0.912	0.475	1.86	
2,2'-Dichlorobiphenyl (4)	pg/L	3.46	1.33	6.12	
2,3-Dichlorobiphenyl (5)	pg/L	2.53	0.657	3.84	
2,3'-Dichlorobiphenyl (6)	pg/L	2.19	0.548	3.28	
2,4-Dichlorobiphenyl (7)	pg/L	2.18	0.535	3.25	
2,4'-Dichlorobiphenyl (8)	pg/L	3.91	5.99	15.9	
2,5-Dichlorobiphenyl (9)	pg/L	2.47	0.686	3.85	
2,6-Dichlorobiphenyl (10)	pg/L	1.86	0.525	2.91	
3,3'-Dichlorobiphenyl (11)	pg/L	2.36	0.61	3.58	
3,4-Dichlorobiphenyl (12)	pg/L	2.43	0.631	3.69	
3,5-Dichlorobiphenyl (14)	pg/L	2.28	0.579	3.44	
4,4'-Dichlorobiphenyl (15)	pg/L	2.15	0.443	3.03	

Blank Population Summary

1668A PCBs with High Solids Prep for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3-Trichlorobiphenyl (16)	pg/L	1.1	0.165	1.43	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.14	0.203	1.55	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.765	0.142	1.05	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.04	0.295	1.63	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.663	0.138	0.938	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.62	0.12	0.86	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.618	0.122	0.862	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.627	0.121	0.869	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.665	0.133	0.932	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.543	0.102	0.746	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.684	0.141	0.965	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.68	0.132	0.945	
2,4,5-Trichlorobiphenyl (31)	pg/L	0.589	0.115	0.82	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.618	0.112	0.842	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.672	0.14	0.952	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.899	0.35	1.6	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.839	0.329	1.5	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.835	0.28	1.4	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.912	0.345	1.6	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.812	0.308	1.43	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.83	0.499	2.83	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.02	0.498	3.01	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.76	0.468	2.7	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	2.74	0.888	4.52	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.85	0.487	2.82	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.64	0.117	0.873	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.795	0.143	1.08	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.68	0.43	2.54	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	1.56	0.414	2.39	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.599	0.106	0.811	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.79	0.459	2.7	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.514	0.113	0.74	
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.925	0.134	1.19	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.05	0.178	1.41	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.931	0.156	1.24	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.885	0.154	1.19	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.44	0.375	2.19	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.886	0.147	1.18	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.935	0.155	1.24	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.88	0.152	1.18	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.31	0.354	2.02	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.856	0.162	1.18	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1	0.148	1.3	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.818	0.147	1.11	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.883	0.138	1.16	
2,3',5',6-Tetrachlorobiphenyl (73)	pg/L	1.29	0.325	1.94	

Blank Population Summary

1668A PCBs with High Solids Prep for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.823	0.126	1.08	
3,3',4,5'-Tetrachlorobiphenyl (78)	pg/L	0.913	0.151	1.21	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.809	0.135	1.08	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.965	0.174	1.31	
3,4,4',5'-Tetrachlorobiphenyl (81)	pg/L	0.8	0.116	1.03	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.3	0.23	1.76	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.33	0.272	1.87	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	1.54	0.278	2.1	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.02	0.191	1.4	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	1.06	0.193	1.44	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	1.16	0.218	1.59	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.24	0.226	1.69	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.09	0.197	1.48	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.18	0.216	1.61	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.23	0.233	1.69	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.2	0.215	1.63	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.16	0.216	1.59	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.444	0.105	0.653	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	1.23	0.215	1.66	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.977	0.201	1.38	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.08	0.202	1.49	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.456	0.117	0.691	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.899	0.179	1.26	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.979	0.17	1.32	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.02	0.224	1.47	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.907	0.192	1.29	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	0.938	0.165	1.27	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.84	0.152	1.14	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.12	0.188	1.5	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.933	0.178	1.29	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.908	0.172	1.25	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.84	0.153	1.15	
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.854	0.159	1.17	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.976	0.208	1.39	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.862	0.164	1.19	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.925	0.184	1.29	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.917	0.193	1.3	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.36	0.647	2.65	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.58	0.733	3.05	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.58	0.748	3.07	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.51	0.709	2.93	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.51	0.692	2.89	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.63	0.813	3.25	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.707	0.15	1.01	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.546	0.109	0.763	

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1668A PCBs with High Solids Prep for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.37	0.688	2.74	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.48	0.719	2.92	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.77	0.74	3.25	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.62	0.706	3.03	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.54	0.652	2.84	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.724	0.154	1.03	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.544	0.107	0.759	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.51	0.74	2.99	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.47	0.715	2.9	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.722	0.147	1.02	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.527	0.101	0.73	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.536	0.0981	0.732	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	1.13	0.546	2.22	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.759	0.149	1.06	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.487	0.11	0.706	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.897	0.17	1.24	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.25	0.582	2.41	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.718	0.146	1.01	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.22	0.5	2.22	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.15	0.507	2.16	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.685	0.146	0.976	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.37	0.565	2.5	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.17	0.539	2.25	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.697	0.133	0.962	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.666	0.132	0.93	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.936	0.199	1.33	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.982	0.226	1.43	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.909	0.209	1.33	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.02	0.229	1.47	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.749	0.254	1.26	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.585	0.2	0.984	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.89	0.211	1.31	
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.786	0.269	1.32	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.577	0.205	0.986	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.823	0.179	1.18	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.806	0.189	1.18	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.914	0.303	1.52	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.785	0.192	1.17	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.541	0.19	0.922	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.582	0.204	0.99	
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	pg/L	0.686	0.241	1.17	
2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.588	0.189	0.967	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.689	0.131	0.952	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.745	0.154	1.05	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.695	0.149	0.992	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.729	0.158	1.04	

Blank Population Summary

1668A PCBs with High Solids Prep for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.699	0.14	0.98	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.665	0.135	0.934	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.659	0.149	0.958	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.482	0.121	0.723	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.659	0.153	0.964	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.486	0.124	0.735	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.537	0.121	0.778	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.615	0.136	0.886	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.493	0.121	0.735	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.508	0.0945	0.697	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.795	0.209	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.632	0.168	0.967	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.645	0.173	0.991	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.598	0.147	0.893	

1668A PCBs with High Solids Prep for 01-OCT-11 to 31-OCT-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	2.35	3.79	9.92	
3-Chlorobiphenyl (2)	pg/L	2.18	2.86	7.9	
4-Chlorobiphenyl (3)	pg/L	1.53	1.67	4.87	
2,2'-Dichlorobiphenyl (4)	pg/L	3.8	2.68	9.16	
2,3-Dichlorobiphenyl (5)	pg/L	3.59	3.1	9.79	
2,3'-Dichlorobiphenyl (6)	pg/L	2.22	1.08	4.39	
2,4-Dichlorobiphenyl (7)	pg/L	2.21	1.09	4.38	
2,4'-Dichlorobiphenyl (8)	pg/L	3.95	6.04	16	
2,5-Dichlorobiphenyl (9)	pg/L	2.54	1.32	5.17	
2,6-Dichlorobiphenyl (10)	pg/L	1.85	0.816	3.48	
3,3'-Dichlorobiphenyl (11)	pg/L	2.44	1.24	4.92	
3,4-Dichlorobiphenyl (12)	pg/L	2.49	1.23	4.95	
3,5-Dichlorobiphenyl (14)	pg/L	2.33	1.15	4.63	
4,4'-Dichlorobiphenyl (15)	pg/L	2.19	0.769	3.72	
2,2',3-Trichlorobiphenyl (16)	pg/L	1.24	0.55	2.34	
2,2',4-Trichlorobiphenyl (17)	pg/L	1.35	0.72	2.79	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.911	0.501	1.91	
2,2',6-Trichlorobiphenyl (19)	pg/L	1.35	1.03	3.4	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.802	0.463	1.73	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.733	0.39	1.51	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.732	0.388	1.51	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.738	0.385	1.51	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.811	0.483	1.78	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.637	0.336	1.31	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.823	0.46	1.74	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.821	0.482	1.78	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.703	0.386	1.48	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.744	0.413	1.57	

Blank Population Summary

1668A PCBs with High Solids Prep for 01-OCT-11 to 31-OCT-11

Analyte	Units	Average	Stdev	MBCV	*
2',3,5-Trichlorobiphenyl (34)	pg/L	0.815	0.47	1.76	
3,3',4-Trichlorobiphenyl (35)	pg/L	1.17	0.704	2.58	
3,3',5-Trichlorobiphenyl (36)	pg/L	1.12	0.708	2.53	
3,4,4'-Trichlorobiphenyl (37)	pg/L	1.12	0.649	2.42	
3,4,5-Trichlorobiphenyl (38)	pg/L	1.18	0.722	2.63	
3,4',5-Trichlorobiphenyl (39)	pg/L	1.05	0.632	2.31	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	2.29	1.3	4.88	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	2.82	2.1	7.03	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	2.21	1.23	4.67	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	3.31	1.84	6.99	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	2.37	1.43	5.24	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.682	0.203	1.09	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.839	0.233	1.3	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	2.19	1.34	4.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	2	1.2	4.41	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.632	0.181	0.994	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	2.39	1.6	5.58	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.598	0.32	1.24	
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	1.19	0.783	2.76	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	1.4	1	3.4	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	1.24	0.887	3.02	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	1.19	0.867	2.92	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	1.87	1.16	4.19	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	1.17	0.801	2.77	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	1.25	0.886	3.02	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	1.17	0.841	2.85	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	1.67	0.983	3.63	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	1.17	0.875	2.92	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	1.31	0.878	3.06	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	1.09	0.776	2.64	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	1.17	0.826	2.82	
2,3',5',6-Tetrachlorobiphenyl (73)	pg/L	1.7	1.05	3.81	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	1.09	0.674	2.44	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	1.2	0.808	2.81	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	1.07	0.74	2.55	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	1.28	0.895	3.06	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	1.06	0.666	2.39	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	1.48	0.51	2.5	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	1.55	0.628	2.81	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	1.75	0.612	2.97	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	1.17	0.419	2.01	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	1.21	0.433	2.07	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	1.33	0.501	2.34	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	1.43	0.52	2.47	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	1.24	0.456	2.16	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	1.37	0.512	2.39	

Blank Population Summary

1668A PCBs with High Solids Prep for 01-OCT-11 to 31-OCT-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	1.43	0.556	2.54	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	1.37	0.491	2.36	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	1.34	0.497	2.33	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.456	0.0954	0.647	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	1.4	0.486	2.37	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	1.14	0.434	2.01	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	1.26	0.478	2.21	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.49	0.132	0.753	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.997	0.249	1.5	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	1.02	0.196	1.41	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	1.12	0.325	1.77	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.977	0.241	1.46	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.06	0.367	1.8	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.951	0.32	1.59	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	1.23	0.387	2	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	1.03	0.247	1.53	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	1.01	0.253	1.52	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.956	0.332	1.62	
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.98	0.354	1.69	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	1.06	0.262	1.58	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.955	0.239	1.43	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	1.04	0.272	1.58	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.978	0.227	1.43	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.3	0.535	2.37	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.4	0.613	2.63	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.63	0.702	3.04	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.63	0.713	3.05	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.56	0.67	2.9	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.55	0.663	2.88	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.71	0.805	3.32	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.736	0.166	1.07	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.57	0.126	0.822	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.43	0.662	2.75	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.53	0.678	2.88	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.8	0.71	3.22	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.65	0.662	2.97	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.55	0.597	2.74	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.75	0.173	1.1	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.566	0.125	0.816	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.58	0.731	3.04	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.52	0.674	2.87	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.742	0.164	1.07	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.546	0.118	0.781	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.557	0.115	0.786	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	1.17	0.515	2.2	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.783	0.168	1.12	

Blank Population Summary

1668A PCBs with High Solids Prep for 01-OCT-11 to 31-OCT-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.508	0.124	0.757	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.91	0.162	1.23	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	1.27	0.536	2.34	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.717	0.14	0.997	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	1.22	0.466	2.15	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	1.16	0.466	2.09	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.683	0.138	0.958	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.39	0.528	2.44	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	1.2	0.508	2.21	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.714	0.129	0.973	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.685	0.132	0.95	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	1.04	0.327	1.7	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	1.12	0.38	1.88	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	1.03	0.342	1.71	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	1.16	0.386	1.93	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.766	0.261	1.29	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.598	0.199	0.996	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	1.03	0.371	1.77	
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.805	0.272	1.35	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.589	0.2	0.99	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.918	0.288	1.49	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.926	0.332	1.59	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.936	0.323	1.58	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.909	0.337	1.58	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.552	0.187	0.926	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.588	0.196	0.979	
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	pg/L	0.706	0.249	1.2	
2,2',3,4',5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.591	0.186	0.963	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.712	0.203	1.12	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.816	0.242	1.3	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.774	0.244	1.26	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.808	0.248	1.3	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.687	0.206	1.1	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.685	0.223	1.13	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.683	0.176	1.03	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.506	0.138	0.782	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.683	0.179	1.04	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.514	0.144	0.803	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.561	0.147	0.854	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.631	0.158	0.948	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.519	0.142	0.802	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.533	0.18	0.892	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.84	0.259	1.36	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.652	0.193	1.04	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.678	0.213	1.1	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.564	0.156	0.875	

Blank Population Summary

* = *PQL adjusted to the MBCV.*

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1		76.5	66.6	pg/L	24.8
2051-61-8	PCB-2		58.4	50.5	pg/L	24.8
2051-62-9	PCB-3		167	162	pg/L	24.8
13029-08-8	PCB-4		153	144	pg/L	24.8
16605-91-7	PCB-5	U	124	124	pg/L	124
25569-80-6	PCB-6		57.2	52.8	pg/L	24.8
33284-50-3	PCB-7	U	24.8	24.8	pg/L	24.8
34883-43-7	PCB-8		250	234	pg/L	124
34883-39-1	PCB-9	U	24.8	24.8	pg/L	24.8
33146-45-1	PCB-10	U	24.8	24.8	pg/L	24.8
2050-67-1	PCB-11	B	1730	1720	pg/L	1240
2974-92-7	PCB-13/12	C	134	129	pg/L	49.6
34883-41-5	PCB-14	U	24.8	24.8	pg/L	24.8
2050-68-2	PCB-15		534	530	pg/L	124
38444-78-9	PCB-16		114	111	pg/L	24.8
37680-66-3	PCB-17		131	128	pg/L	24.8
37680-65-2	PCB-18/30	C	218	216	pg/L	49.6
38444-73-4	PCB-19		50.7	47.3	pg/L	24.8
38444-84-7	PCB-20/28	C	742	740	pg/L	248
55702-46-0	PCB-21/33	C	377	375	pg/L	248
38444-85-8	PCB-22		274	273	pg/L	124
55720-44-0	PCB-23	U	24.8	24.8	pg/L	24.8
55702-45-9	PCB-24	U	24.8	24.8	pg/L	24.8
55712-37-3	PCB-25		43.0	41.7	pg/L	24.8
38444-81-4	PCB-26/29	C	137	136	pg/L	49.6
38444-76-7	PCB-27	U	24.8	24.8	pg/L	24.8
16606-02-3	PCB-31		510	509	pg/L	124
38444-77-8	PCB-32		87.5	85.9	pg/L	24.8
37680-68-5	PCB-34	U	24.8	24.8	pg/L	24.8
37680-69-6	PCB-35		99.6	97	pg/L	24.8
38444-87-0	PCB-36	U	24.8	24.8	pg/L	24.8
38444-90-5	PCB-37		522	520	pg/L	124

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	24.8	24.8	pg/L	24.8
38444-88-1	PCB-39	U	24.8	24.8	pg/L	24.8
38444-93-8	PCB-40/71	C	392	387	pg/L	49.6
52663-59-9	PCB-41		54.0	47	pg/L	24.8
36559-22-5	PCB-42		229	225	pg/L	24.8
70362-46-8	PCB-43		43.2	36.2	pg/L	24.8
41464-39-5	PCB-44/65/47	C	1360	1350	pg/L	74.4
70362-45-7	PCB-45/51	C	111	110	pg/L	49.6
41464-47-5	PCB-46		44.9	43.6	pg/L	24.8
70362-47-9	PCB-48		107	102	pg/L	24.8
41464-40-8	PCB-69/49	C	607	603	pg/L	49.6
62796-65-0	PCB-50/53	C	88.9	87.9	pg/L	49.6
35693-99-3	PCB-52		2160	2150	pg/L	124
15968-05-5	PCB-54	U	24.8	24.8	pg/L	24.8
74338-24-2	PCB-55		32.4	29.7	pg/L	24.8
41464-43-1	PCB-56		667	664	pg/L	124
70424-67-8	PCB-57	U	24.8	24.8	pg/L	24.8
41464-49-7	PCB-58	U	24.8	24.8	pg/L	24.8
74472-33-6	PCB-59/62/75	C	91.9	87.7	pg/L	74.4
33025-41-1	PCB-60		279	276	pg/L	24.8
33284-53-6	PCB-61/76/70/74	C	2170	2170	pg/L	99.2
74472-34-7	PCB-63		34.2	31.3	pg/L	24.8
52663-58-8	PCB-64		525	522	pg/L	24.8
32598-10-0	PCB-66		969	966	pg/L	124
73575-53-8	PCB-67		65.0	61.9	pg/L	24.8
73575-52-7	PCB-68		46.8	44.2	pg/L	24.8
41464-42-0	PCB-72	U	24.8	24.8	pg/L	24.8
74338-23-1	PCB-73	U	24.8	24.8	pg/L	24.8
32598-13-3	PCB-77		346	344	pg/L	24.8
70362-49-1	PCB-78	U	24.8	24.8	pg/L	24.8
41464-48-6	PCB-79		40.9	38.4	pg/L	24.8
33284-52-5	PCB-80	U	24.8	24.8	pg/L	24.8

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	24.8	24.8	pg/L	24.8
52663-62-4	PCB-82		659	656	pg/L	24.8
60145-20-2	PCB-83		268	265	pg/L	24.8
52663-60-2	PCB-84		1520	1520	pg/L	24.8
65510-45-4	PCB-117/116/85	C	1120	1120	pg/L	74.4
55312-69-1	PCB-86/87/97/109/119/125	C	4050	4040	pg/L	149
55215-17-3	PCB-88/91	C	796	793	pg/L	49.6
73575-57-2	PCB-89		50.8	48.4	pg/L	24.8
68194-07-0	PCB-113/90/101	C	4720	4710	pg/L	74.4
52663-61-3	PCB-92		973	970	pg/L	24.8
73575-56-1	PCB-93/100	CU	49.6	49.6	pg/L	49.6
73575-55-0	PCB-94	U	24.8	24.8	pg/L	24.8
38379-99-6	PCB-95		4240	4230	pg/L	124
73575-54-9	PCB-96		28.1	27.5	pg/L	24.8
60233-25-2	PCB-102/98	C	125	123	pg/L	49.6
38380-01-7	PCB-99		2070	2070	pg/L	124
60145-21-3	PCB-103	U	24.8	24.8	pg/L	24.8
56558-16-8	PCB-104	U	24.8	24.8	pg/L	24.8
32598-14-4	PCB-105		2000	2000	pg/L	124
70424-69-0	PCB-106	U	24.8	24.8	pg/L	24.8
70424-68-9	PCB-107		448	447	pg/L	24.8
70362-41-3	PCB-108/124	C	236	234	pg/L	49.6
38380-03-9	PCB-110/115	CU	248	248	pg/L	248
39635-32-0	PCB-111	U	24.8	24.8	pg/L	24.8
74472-36-9	PCB-112	U	24.8	24.8	pg/L	24.8
74472-37-0	PCB-114		82.5	80.9	pg/L	24.8
31508-00-6	PCB-118		3980	3980	pg/L	24.8
68194-12-7	PCB-120	U	24.8	24.8	pg/L	24.8
56558-18-0	PCB-121	U	24.8	24.8	pg/L	24.8
76842-07-4	PCB-122		84.6	83	pg/L	24.8
65510-44-3	PCB-123		99.2	97.7	pg/L	24.8
57465-28-8	PCB-126		66.3	64.7	pg/L	24.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	24.8	24.8	pg/L	24.8
38380-07-3	PCB-128/166	C	1830	1830	pg/L	49.6
55215-18-4	PCB-138/163/129	C	11300	11300	pg/L	74.4
52663-66-8	PCB-130		755	752	pg/L	24.8
61798-70-7	PCB-131		124	121	pg/L	24.8
38380-05-1	PCB-132		3240	3230	pg/L	24.8
35694-04-3	PCB-133		136	133	pg/L	24.8
52704-70-8	PCB-134		478	475	pg/L	24.8
52744-13-5	PCB-151/135	C	2490	2490	pg/L	49.6
38411-22-2	PCB-136		822	821	pg/L	124
35694-06-5	PCB-137		486	484	pg/L	24.8
56030-56-9	PCB-139/140	C	170	167	pg/L	49.6
52712-04-6	PCB-141		1810	1810	pg/L	24.8
41411-61-4	PCB-142	U	24.8	24.8	pg/L	24.8
68194-15-0	PCB-143		32.5	29.8	pg/L	24.8
68194-14-9	PCB-144		319	318	pg/L	24.8
74472-40-5	PCB-145	U	24.8	24.8	pg/L	24.8
51908-16-8	PCB-146		1580	1580	pg/L	24.8
68194-13-8	PCB-147/149	C	6950	6950	pg/L	248
74472-41-6	PCB-148	U	24.8	24.8	pg/L	24.8
68194-08-1	PCB-150	U	24.8	24.8	pg/L	24.8
68194-09-2	PCB-152	U	24.8	24.8	pg/L	24.8
35065-27-1	PCB-153/168	C	6920	6920	pg/L	49.6
60145-22-4	PCB-154		84.6	83.5	pg/L	24.8
33979-03-2	PCB-155	U	24.8	24.8	pg/L	24.8
38380-08-4	PCB-156/157	C	1060	1050	pg/L	49.6
74472-42-7	PCB-158		1190	1180	pg/L	24.8
39635-35-3	PCB-159	U	24.8	24.8	pg/L	24.8
41411-62-5	PCB-160	U	24.8	24.8	pg/L	24.8
74472-43-8	PCB-161	U	24.8	24.8	pg/L	24.8
39635-34-2	PCB-162		55.1	54.2	pg/L	24.8
74472-45-0	PCB-164		962	960	pg/L	24.8

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	24.8	24.8	pg/L	24.8
52663-72-6	PCB-167		451	450	pg/L	24.8
32774-16-6	PCB-169	U	24.8	24.8	pg/L	24.8
35065-30-6	PCB-170		2590	2580	pg/L	24.8
52663-71-5	PCB-173/171	C	753	752	pg/L	49.6
52663-74-8	PCB-172		503	502	pg/L	24.8
38411-25-5	PCB-174		2890	2890	pg/L	24.8
40186-70-7	PCB-175		85.5	84.2	pg/L	24.8
52663-65-7	PCB-176		221	220	pg/L	24.8
52663-70-4	PCB-177		1430	1430	pg/L	24.8
52663-67-9	PCB-178		441	439	pg/L	24.8
52663-64-6	PCB-179		758	757	pg/L	24.8
35065-29-3	PCB-193/180	C	5960	5960	pg/L	49.6
74472-47-2	PCB-181	U	24.8	24.8	pg/L	24.8
60145-23-5	PCB-182	U	24.8	24.8	pg/L	24.8
52663-69-1	PCB-183/185	C	1390	1390	pg/L	49.6
74472-48-3	PCB-184	U	24.8	24.8	pg/L	24.8
74472-49-4	PCB-186	U	24.8	24.8	pg/L	24.8
52663-68-0	PCB-187		2570	2560	pg/L	24.8
74487-85-7	PCB-188	U	24.8	24.8	pg/L	24.8
39635-31-9	PCB-189		96.2	95.1	pg/L	24.8
41411-64-7	PCB-190		531	529	pg/L	24.8
74472-50-7	PCB-191		107	105	pg/L	24.8
74472-51-8	PCB-192	U	24.8	24.8	pg/L	24.8
35694-08-7	PCB-194		1160	1160	pg/L	24.8
52663-78-2	PCB-195		420	419	pg/L	24.8
42740-50-1	PCB-196		569	568	pg/L	24.8
33091-17-7	PCB-197/200	C	142	141	pg/L	49.6
68194-17-2	PCB-198/199	C	1120	1120	pg/L	49.6
40186-71-8	PCB-201		109	108	pg/L	24.8
2136-99-4	PCB-202		211	211	pg/L	24.8
52663-76-0	PCB-203		681	680	pg/L	24.8

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	24.8	24.8	pg/L	24.8
74472-53-0	PCB-205		59.6	58.7	pg/L	24.8
40186-72-9	PCB-206		385	384	pg/L	24.8
52663-79-3	PCB-207		47.8	46.7	pg/L	24.8
52663-77-1	PCB-208		94.3	93.2	pg/L	24.8
2051-24-3	PCB-209		101	100	pg/L	24.8
27323-18-8	Total Mono PCBs		302	279	pg/L	
25512-42-9	Total Di PCBs		1130	1090	pg/L	
25323-68-6	Total Tri PCBs		3130	3280	pg/L	
26914-33-0	Total Tetra PCBs		10500	10400	pg/L	
25429-29-2	Total Penta PCBs		27600	27600	pg/L	
26601-64-9	Total Hexa PCBs		43300	43200	pg/L	
28655-71-2	Total Hepta PCBs		20300	20300	pg/L	
55722-26-4	Total Octa PCBs		4470	4460	pg/L	
53742-07-7	Total Nona PCBs		527	524	pg/L	
2051-24-3	Total Deca PCB		101	100	pg/L	
	Total PCB Congeners		111000	111000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		183	2480	pg/L	7.38 *	(15%-150%)
13C-3-MoCB		231	2480	pg/L	9.30 *	(15%-150%)
13C-4-DiCB		149	2480	pg/L	6.02 *	(25%-150%)
13C-15-DiCB		319	2480	pg/L	12.9 *	(25%-150%)
13C-19-TrCB		200	2480	pg/L	8.06 *	(25%-150%)
13C-37-TrCB		499	2480	pg/L	20.1 *	(25%-150%)
13C-54-TeCB		188	2480	pg/L	7.60 *	(25%-150%)
13C-77-TeCB		575	2480	pg/L	23.2 *	(25%-150%)
13C-81-TeCB		521	2480	pg/L	21.0 *	(25%-150%)
13C-104-PeCB		176	2480	pg/L	7.09 *	(25%-150%)
13C-105-PeCB		427	2480	pg/L	17.2 *	(25%-150%)
13C-114-PeCB		371	2480	pg/L	15.0 *	(25%-150%)
13C-118-PeCB		379	2480	pg/L	15.3 *	(25%-150%)
13C-123-PeCB		387	2480	pg/L	15.6 *	(25%-150%)
13C-126-PeCB		471	2480	pg/L	19.0 *	(25%-150%)
13C-155-HxCB		227	2480	pg/L	9.17 *	(25%-150%)
13C-156-HxCB	C	905	4960	pg/L	18.2 *	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		411	2480	pg/L	16.6 *	(25%-150%)
13C-169-HxCB		535	2480	pg/L	21.6 *	(25%-150%)
13C-188-HpCB		220	2480	pg/L	8.87 *	(25%-150%)
13C-189-HpCB		368	2480	pg/L	14.9 *	(25%-150%)
13C-202-OcCB		285	2480	pg/L	11.5 *	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10368		Prep Basis: As Received
Batch ID: 19690	Method: EPA Method 1668A HS	
Run Date: 10/07/2011 03:40	Analyst: MJC	Instrument: HRP791
Data File: c05oct11a_4-7		Dilution: 1
Prep Batch: 19676	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 05-OCT-11	Aliquot: 806.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			489	2480	pg/L	19.7 * (25%-150%)
13C-206-NoCB			534	2480	pg/L	21.5 * (25%-150%)
13C-208-NoCB			365	2480	pg/L	14.7 * (25%-150%)
13C-209-DeCB			453	2480	pg/L	18.3 * (25%-150%)
13C-28-TrCB			2210	2480	pg/L	89.2 (30%-135%)
13C-111-PeCB			2110	2480	pg/L	85.3 (30%-135%)
13C-178-HpCB			2250	2480	pg/L	90.6 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10548		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/29/2011 02:14	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_5-11		Dilution: 5
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 903.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	111	111	pg/L	111
2051-61-8	PCB-2	U	111	111	pg/L	111
2051-62-9	PCB-3	U	111	111	pg/L	111
13029-08-8	PCB-4	U	554	554	pg/L	554
16605-91-7	PCB-5	U	111	111	pg/L	111
25569-80-6	PCB-6	U	111	111	pg/L	111
33284-50-3	PCB-7	U	111	111	pg/L	111
34883-43-7	PCB-8	U	111	111	pg/L	111
34883-39-1	PCB-9	U	111	111	pg/L	111
33146-45-1	PCB-10	U	554	554	pg/L	554
2050-67-1	PCB-11	U	554	554	pg/L	554
2974-92-7	PCB-13/12	CU	221	221	pg/L	221
34883-41-5	PCB-14	U	111	111	pg/L	111
2050-68-2	PCB-15	U	111	111	pg/L	111
38444-78-9	PCB-16	U	554	554	pg/L	554
37680-66-3	PCB-17	U	111	111	pg/L	111
37680-65-2	PCB-18/30	CU	221	221	pg/L	221
38444-73-4	PCB-19	U	111	111	pg/L	111
38444-84-7	PCB-20/28	CU	221	221	pg/L	221
55702-46-0	PCB-21/33	CU	221	221	pg/L	221
38444-85-8	PCB-22	U	111	111	pg/L	111
55720-44-0	PCB-23	U	111	111	pg/L	111
55702-45-9	PCB-24	U	111	111	pg/L	111
55712-37-3	PCB-25	U	111	111	pg/L	111
38444-81-4	PCB-26/29	CU	221	221	pg/L	221
38444-76-7	PCB-27	U	111	111	pg/L	111
16606-02-3	PCB-31	U	111	111	pg/L	111
38444-77-8	PCB-32	U	111	111	pg/L	111
37680-68-5	PCB-34	U	111	111	pg/L	111
37680-69-6	PCB-35	U	111	111	pg/L	111
38444-87-0	PCB-36	U	111	111	pg/L	111
38444-90-5	PCB-37	U	111	111	pg/L	111

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3342
Lab Sample ID: 2706001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10548
Batch ID: 19569
Run Date: 09/29/2011 02:14
Data File: c26sep11a_5-11
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 08/31/2011 10:00
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 903.3 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	111	111	pg/L	111
38444-88-1	PCB-39	U	111	111	pg/L	111
38444-93-8	PCB-40/71	CU	221	221	pg/L	221
52663-59-9	PCB-41	U	554	554	pg/L	554
36559-22-5	PCB-42	U	111	111	pg/L	111
70362-46-8	PCB-43	U	111	111	pg/L	111
41464-39-5	PCB-44/65/47	C	450	448	pg/L	332
70362-45-7	PCB-45/51	CU	221	221	pg/L	221
41464-47-5	PCB-46	U	111	111	pg/L	111
70362-47-9	PCB-48	U	111	111	pg/L	111
41464-40-8	PCB-69/49	C	317	315	pg/L	221
62796-65-0	PCB-50/53	CU	221	221	pg/L	221
35693-99-3	PCB-52		1680	1680	pg/L	111
15968-05-5	PCB-54	U	111	111	pg/L	111
74338-24-2	PCB-55	U	111	111	pg/L	111
41464-43-1	PCB-56		141	139	pg/L	111
70424-67-8	PCB-57	U	111	111	pg/L	111
41464-49-7	PCB-58	U	111	111	pg/L	111
74472-33-6	PCB-59/62/75	CU	332	332	pg/L	332
33025-41-1	PCB-60	U	111	111	pg/L	111
33284-53-6	PCB-61/76/70/74	C	495	494	pg/L	443
74472-34-7	PCB-63	U	111	111	pg/L	111
52663-58-8	PCB-64		142	141	pg/L	111
32598-10-0	PCB-66	U	111	111	pg/L	111
73575-53-8	PCB-67	U	111	111	pg/L	111
73575-52-7	PCB-68	U	111	111	pg/L	111
41464-42-0	PCB-72	U	111	111	pg/L	111
74338-23-1	PCB-73	U	111	111	pg/L	111
32598-13-3	PCB-77	U	111	111	pg/L	111
70362-49-1	PCB-78	U	111	111	pg/L	111
41464-48-6	PCB-79	U	111	111	pg/L	111
33284-52-5	PCB-80	U	111	111	pg/L	111

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10548		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/29/2011 02:14	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_5-11		Dilution: 5
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 903.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	111	111	pg/L	111
52663-62-4	PCB-82		478	476	pg/L	111
60145-20-2	PCB-83		415	414	pg/L	111
52663-60-2	PCB-84		1440	1440	pg/L	111
65510-45-4	PCB-117/116/85	C	743	742	pg/L	332
55312-69-1	PCB-86/87/97/109/119/125	C	3390	3390	pg/L	664
55215-17-3	PCB-88/91	C	703	702	pg/L	221
73575-57-2	PCB-89	U	111	111	pg/L	111
68194-07-0	PCB-113/90/101	C	5560	5560	pg/L	332
52663-61-3	PCB-92		1030	1030	pg/L	111
73575-56-1	PCB-93/100	CU	221	221	pg/L	221
73575-55-0	PCB-94	U	111	111	pg/L	111
38379-99-6	PCB-95		5140	5140	pg/L	111
73575-54-9	PCB-96	U	111	111	pg/L	111
60233-25-2	PCB-102/98	CU	221	221	pg/L	221
38380-01-7	PCB-99		1910	1910	pg/L	554
60145-21-3	PCB-103	U	111	111	pg/L	111
56558-16-8	PCB-104	U	111	111	pg/L	111
32598-14-4	PCB-105		1060	1060	pg/L	554
70424-69-0	PCB-106	U	111	111	pg/L	111
70424-68-9	PCB-107		221	220	pg/L	111
70362-41-3	PCB-108/124	CU	221	221	pg/L	221
38380-03-9	PCB-110/115	CU	221	221	pg/L	221
39635-32-0	PCB-111	U	111	111	pg/L	111
74472-36-9	PCB-112	U	111	111	pg/L	111
74472-37-0	PCB-114	U	111	111	pg/L	111
31508-00-6	PCB-118		2970	2970	pg/L	111
68194-12-7	PCB-120	U	111	111	pg/L	111
56558-18-0	PCB-121	U	111	111	pg/L	111
76842-07-4	PCB-122	U	111	111	pg/L	111
65510-44-3	PCB-123	U	554	554	pg/L	554
57465-28-8	PCB-126	U	111	111	pg/L	111

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3342
Lab Sample ID: 2706001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10548
Batch ID: 19569
Run Date: 09/29/2011 02:14
Data File: c26sep11a_5-11
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 08/31/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 903.3 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	111	111	pg/L	111
38380-07-3	PCB-128/166	C	1240	1230	pg/L	221
55215-18-4	PCB-138/163/129	C	8550	8550	pg/L	332
52663-66-8	PCB-130		500	497	pg/L	111
61798-70-7	PCB-131	U	111	111	pg/L	111
38380-05-1	PCB-132		2950	2950	pg/L	111
35694-04-3	PCB-133	U	111	111	pg/L	111
52704-70-8	PCB-134	U	554	554	pg/L	554
52744-13-5	PCB-151/135	C	2850	2850	pg/L	221
38411-22-2	PCB-136		1070	1070	pg/L	111
35694-06-5	PCB-137		396	394	pg/L	111
56030-56-9	PCB-139/140	CU	221	221	pg/L	221
52712-04-6	PCB-141		1320	1320	pg/L	111
41411-61-4	PCB-142	U	111	111	pg/L	111
68194-15-0	PCB-143	U	111	111	pg/L	111
68194-14-9	PCB-144		336	335	pg/L	111
74472-40-5	PCB-145	U	111	111	pg/L	111
51908-16-8	PCB-146		1430	1430	pg/L	111
68194-13-8	PCB-147/149	C	7380	7370	pg/L	221
74472-41-6	PCB-148	U	111	111	pg/L	111
68194-08-1	PCB-150	U	111	111	pg/L	111
68194-09-2	PCB-152	U	111	111	pg/L	111
35065-27-1	PCB-153/168	C	6960	6960	pg/L	221
60145-22-4	PCB-154	U	111	111	pg/L	111
33979-03-2	PCB-155	U	111	111	pg/L	111
38380-08-4	PCB-156/157	C	742	740	pg/L	221
74472-42-7	PCB-158		930	928	pg/L	111
39635-35-3	PCB-159	U	111	111	pg/L	111
41411-62-5	PCB-160	U	111	111	pg/L	111
74472-43-8	PCB-161	U	111	111	pg/L	111
39635-34-2	PCB-162	U	111	111	pg/L	111
74472-45-0	PCB-164		631	629	pg/L	111

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10548		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/29/2011 02:14	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_5-11		Dilution: 5
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 903.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	111	111	pg/L	111
52663-72-6	PCB-167		309	307	pg/L	111
32774-16-6	PCB-169	U	111	111	pg/L	111
35065-30-6	PCB-170		1480	1470	pg/L	111
52663-71-5	PCB-173/171	C	519	518	pg/L	221
52663-74-8	PCB-172		273	272	pg/L	111
38411-25-5	PCB-174		1990	1990	pg/L	111
40186-70-7	PCB-175	U	111	111	pg/L	111
52663-65-7	PCB-176		224	223	pg/L	111
52663-70-4	PCB-177		944	942	pg/L	111
52663-67-9	PCB-178		356	355	pg/L	111
52663-64-6	PCB-179		746	745	pg/L	111
35065-29-3	PCB-193/180	C	3690	3690	pg/L	221
74472-47-2	PCB-181	U	111	111	pg/L	111
60145-23-5	PCB-182	U	111	111	pg/L	111
52663-69-1	PCB-183/185	C	1130	1130	pg/L	221
74472-48-3	PCB-184	U	111	111	pg/L	111
74472-49-4	PCB-186	U	111	111	pg/L	111
52663-68-0	PCB-187		2090	2090	pg/L	111
74487-85-7	PCB-188	U	111	111	pg/L	111
39635-31-9	PCB-189	U	111	111	pg/L	111
41411-64-7	PCB-190		266	264	pg/L	111
74472-50-7	PCB-191	U	111	111	pg/L	111
74472-51-8	PCB-192	U	111	111	pg/L	111
35694-08-7	PCB-194		572	571	pg/L	111
52663-78-2	PCB-195	U	111	111	pg/L	111
42740-50-1	PCB-196		334	333	pg/L	111
33091-17-7	PCB-197/200	CU	221	221	pg/L	221
68194-17-2	PCB-198/199	C	899	898	pg/L	221
40186-71-8	PCB-201	U	111	111	pg/L	111
2136-99-4	PCB-202		236	235	pg/L	111
52663-76-0	PCB-203	U	111	111	pg/L	111

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10548		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/29/2011 02:14	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_5-11		Dilution: 5
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 903.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	111	111	pg/L	111
74472-53-0	PCB-205	U	111	111	pg/L	111
40186-72-9	PCB-206		372	370	pg/L	111
52663-79-3	PCB-207	U	111	111	pg/L	111
52663-77-1	PCB-208		135	134	pg/L	111
2051-24-3	PCB-209		183	182	pg/L	111
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		3230	3220	pg/L	
25429-29-2	Total Penta PCBs		25100	25000	pg/L	
26601-64-9	Total Hexa PCBs		37600	37600	pg/L	
28655-71-2	Total Hepta PCBs		13700	13700	pg/L	
55722-26-4	Total Octa PCBs		2040	2040	pg/L	
53742-07-7	Total Nona PCBs		506	504	pg/L	
2051-24-3	Total Deca PCB		183	182	pg/L	
	Total PCB Congeners		82300	82200	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1280	2210	pg/L	57.7	(15%-150%)
13C-3-MoCB		1620	2210	pg/L	73.4	(15%-150%)
13C-4-DiCB		1500	2210	pg/L	67.6	(25%-150%)
13C-15-DiCB		1770	2210	pg/L	79.8	(25%-150%)
13C-19-TrCB		1720	2210	pg/L	77.5	(25%-150%)
13C-37-TrCB		1950	2210	pg/L	87.9	(25%-150%)
13C-54-TeCB		1780	2210	pg/L	80.3	(25%-150%)
13C-77-TeCB		1800	2210	pg/L	81.5	(25%-150%)
13C-81-TeCB		1790	2210	pg/L	80.7	(25%-150%)
13C-104-PeCB		1800	2210	pg/L	81.4	(25%-150%)
13C-105-PeCB		1700	2210	pg/L	76.7	(25%-150%)
13C-114-PeCB		1660	2210	pg/L	74.9	(25%-150%)
13C-118-PeCB		1670	2210	pg/L	75.5	(25%-150%)
13C-123-PeCB		1790	2210	pg/L	80.8	(25%-150%)
13C-126-PeCB		1610	2210	pg/L	72.9	(25%-150%)
13C-155-HxCB		1900	2210	pg/L	85.9	(25%-150%)
13C-156-HxCB	C	3290	4430	pg/L	74.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1620	2210	pg/L	73.1	(25%-150%)
13C-169-HxCB		1730	2210	pg/L	78.0	(25%-150%)
13C-188-HpCB		1590	2210	pg/L	71.6	(25%-150%)
13C-189-HpCB		1370	2210	pg/L	62.0	(25%-150%)
13C-202-OcCB		1600	2210	pg/L	72.1	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3342	Client: LANL001	Project: LANL00109
Lab Sample ID: 2706001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPLAP-11-10548		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/29/2011 02:14	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_5-11		Dilution: 5
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 903.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1720	2210	pg/L	77.7 (25%-150%)
13C-206-NoCB			1880	2210	pg/L	84.9 (25%-150%)
13C-208-NoCB			1660	2210	pg/L	75.2 (25%-150%)
13C-209-DeCB			1670	2210	pg/L	75.4 (25%-150%)
13C-28-TrCB			1970	2210	pg/L	88.8 (30%-135%)
13C-111-PeCB			2120	2210	pg/L	96.0 (30%-135%)
13C-178-HpCB			2240	2210	pg/L	101 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	22.2	22.2	pg/L	22.2
2051-61-8	PCB-2	U	22.2	22.2	pg/L	22.2
2051-62-9	PCB-3	U	22.2	22.2	pg/L	22.2
13029-08-8	PCB-4	U	111	111	pg/L	111
16605-91-7	PCB-5	U	22.2	22.2	pg/L	22.2
25569-80-6	PCB-6	U	22.2	22.2	pg/L	22.2
33284-50-3	PCB-7	U	22.2	22.2	pg/L	22.2
34883-43-7	PCB-8		43.3	41	pg/L	22.2
34883-39-1	PCB-9	U	22.2	22.2	pg/L	22.2
33146-45-1	PCB-10	U	111	111	pg/L	111
2050-67-1	PCB-11	B	185	182	pg/L	111
2974-92-7	PCB-13/12	CU	44.4	44.4	pg/L	44.4
34883-41-5	PCB-14	U	22.2	22.2	pg/L	22.2
2050-68-2	PCB-15		56.2	53.9	pg/L	22.2
38444-78-9	PCB-16	U	111	111	pg/L	111
37680-66-3	PCB-17		44.7	43.1	pg/L	22.2
37680-65-2	PCB-18/30	C	74.4	73.3	pg/L	44.4
38444-73-4	PCB-19	U	22.2	22.2	pg/L	22.2
38444-84-7	PCB-20/28	C	245	244	pg/L	44.4
55702-46-0	PCB-21/33	C	54.7	53.9	pg/L	44.4
38444-85-8	PCB-22		76.2	75.2	pg/L	22.2
55720-44-0	PCB-23	U	22.2	22.2	pg/L	22.2
55702-45-9	PCB-24	U	22.2	22.2	pg/L	22.2
55712-37-3	PCB-25	U	22.2	22.2	pg/L	22.2
38444-81-4	PCB-26/29	CU	44.4	44.4	pg/L	44.4
38444-76-7	PCB-27	U	22.2	22.2	pg/L	22.2
16606-02-3	PCB-31		125	124	pg/L	22.2
38444-77-8	PCB-32		48.5	47.6	pg/L	22.2
37680-68-5	PCB-34	U	22.2	22.2	pg/L	22.2
37680-69-6	PCB-35	U	22.2	22.2	pg/L	22.2
38444-87-0	PCB-36	U	22.2	22.2	pg/L	22.2
38444-90-5	PCB-37		133	132	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	22.2	22.2	pg/L	22.2
38444-88-1	PCB-39	U	22.2	22.2	pg/L	22.2
38444-93-8	PCB-40/71	C	155	153	pg/L	44.4
52663-59-9	PCB-41	U	111	111	pg/L	111
36559-22-5	PCB-42	U	22.2	22.2	pg/L	22.2
70362-46-8	PCB-43	U	22.2	22.2	pg/L	22.2
41464-39-5	PCB-44/65/47	CU	66.6	66.6	pg/L	66.6
70362-45-7	PCB-45/51	CU	44.4	44.4	pg/L	44.4
41464-47-5	PCB-46	U	22.2	22.2	pg/L	22.2
70362-47-9	PCB-48	U	22.2	22.2	pg/L	22.2
41464-40-8	PCB-69/49	C	191	189	pg/L	44.4
62796-65-0	PCB-50/53	CU	44.4	44.4	pg/L	44.4
35693-99-3	PCB-52	U	22.2	22.2	pg/L	22.2
15968-05-5	PCB-54	U	22.2	22.2	pg/L	22.2
74338-24-2	PCB-55	U	22.2	22.2	pg/L	22.2
41464-43-1	PCB-56		299	297	pg/L	22.2
70424-67-8	PCB-57	U	22.2	22.2	pg/L	22.2
41464-49-7	PCB-58	U	22.2	22.2	pg/L	22.2
74472-33-6	PCB-59/62/75	CU	66.6	66.6	pg/L	66.6
33025-41-1	PCB-60		115	114	pg/L	22.2
33284-53-6	PCB-61/76/70/74	C	1320	1320	pg/L	88.8
74472-34-7	PCB-63	U	22.2	22.2	pg/L	22.2
52663-58-8	PCB-64	U	22.2	22.2	pg/L	22.2
32598-10-0	PCB-66	U	22.2	22.2	pg/L	22.2
73575-53-8	PCB-67	U	22.2	22.2	pg/L	22.2
73575-52-7	PCB-68	U	22.2	22.2	pg/L	22.2
41464-42-0	PCB-72	U	22.2	22.2	pg/L	22.2
74338-23-1	PCB-73	U	22.2	22.2	pg/L	22.2
32598-13-3	PCB-77		303	302	pg/L	22.2
70362-49-1	PCB-78	U	22.2	22.2	pg/L	22.2
41464-48-6	PCB-79		37.9	36.9	pg/L	22.2
33284-52-5	PCB-80	U	22.2	22.2	pg/L	22.2

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	22.2	22.2	pg/L	22.2
52663-62-4	PCB-82		478	476	pg/L	22.2
60145-20-2	PCB-83		206	205	pg/L	22.2
52663-60-2	PCB-84		782	780	pg/L	22.2
65510-45-4	PCB-117/116/85	C	582	581	pg/L	66.6
55312-69-1	PCB-86/87/97/109/119/125	C	2660	2660	pg/L	133
55215-17-3	PCB-88/91	C	260	258	pg/L	44.4
73575-57-2	PCB-89	U	22.2	22.2	pg/L	22.2
68194-07-0	PCB-113/90/101	C	3140	3130	pg/L	66.6
52663-61-3	PCB-92		513	512	pg/L	22.2
73575-56-1	PCB-93/100	CU	44.4	44.4	pg/L	44.4
73575-55-0	PCB-94	U	22.2	22.2	pg/L	22.2
38379-99-6	PCB-95		1700	1700	pg/L	22.2
73575-54-9	PCB-96	U	22.2	22.2	pg/L	22.2
60233-25-2	PCB-102/98	CU	44.4	44.4	pg/L	44.4
38380-01-7	PCB-99		1020	1020	pg/L	111
60145-21-3	PCB-103	U	22.2	22.2	pg/L	22.2
56558-16-8	PCB-104	U	22.2	22.2	pg/L	22.2
32598-14-4	PCB-105		2610	2610	pg/L	111
70424-69-0	PCB-106	U	22.2	22.2	pg/L	22.2
70424-68-9	PCB-107		386	385	pg/L	22.2
70362-41-3	PCB-108/124	C	214	213	pg/L	44.4
38380-03-9	PCB-110/115	CU	44.4	44.4	pg/L	44.4
39635-32-0	PCB-111	U	22.2	22.2	pg/L	22.2
74472-36-9	PCB-112	U	22.2	22.2	pg/L	22.2
74472-37-0	PCB-114		85.3	84	pg/L	22.2
31508-00-6	PCB-118		5360	5360	pg/L	22.2
68194-12-7	PCB-120	U	22.2	22.2	pg/L	22.2
56558-18-0	PCB-121	U	22.2	22.2	pg/L	22.2
76842-07-4	PCB-122		53.1	51.7	pg/L	22.2
65510-44-3	PCB-123	U	111	111	pg/L	111
57465-28-8	PCB-126		190	189	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	22.2	22.2	pg/L	22.2
38380-07-3	PCB-128/166	C	1890	1890	pg/L	44.4
55215-18-4	PCB-138/163/129	C	10200	10200	pg/L	66.6
52663-66-8	PCB-130		599	596	pg/L	22.2
61798-70-7	PCB-131		86.5	84	pg/L	22.2
38380-05-1	PCB-132		2540	2530	pg/L	22.2
35694-04-3	PCB-133		89.1	86.7	pg/L	22.2
52704-70-8	PCB-134		339	336	pg/L	111
52744-13-5	PCB-151/135	C	1400	1400	pg/L	44.4
38411-22-2	PCB-136		494	493	pg/L	22.2
35694-06-5	PCB-137		382	380	pg/L	22.2
56030-56-9	PCB-139/140	C	104	102	pg/L	44.4
52712-04-6	PCB-141		1550	1550	pg/L	22.2
41411-61-4	PCB-142	U	22.2	22.2	pg/L	22.2
68194-15-0	PCB-143	U	22.2	22.2	pg/L	22.2
68194-14-9	PCB-144		196	194	pg/L	22.2
74472-40-5	PCB-145	U	22.2	22.2	pg/L	22.2
51908-16-8	PCB-146		1130	1130	pg/L	22.2
68194-13-8	PCB-147/149	C	4600	4590	pg/L	44.4
74472-41-6	PCB-148	U	22.2	22.2	pg/L	22.2
68194-08-1	PCB-150	U	22.2	22.2	pg/L	22.2
68194-09-2	PCB-152	U	22.2	22.2	pg/L	22.2
35065-27-1	PCB-153/168	C	5640	5640	pg/L	44.4
60145-22-4	PCB-154		38.3	36.8	pg/L	22.2
33979-03-2	PCB-155	U	22.2	22.2	pg/L	22.2
38380-08-4	PCB-156/157	C	1580	1580	pg/L	44.4
74472-42-7	PCB-158		1190	1190	pg/L	22.2
39635-35-3	PCB-159	U	22.2	22.2	pg/L	22.2
41411-62-5	PCB-160	U	22.2	22.2	pg/L	22.2
74472-43-8	PCB-161	U	22.2	22.2	pg/L	22.2
39635-34-2	PCB-162		69.5	68.3	pg/L	22.2
74472-45-0	PCB-164		838	835	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	22.2	22.2	pg/L	22.2
52663-72-6	PCB-167		637	636	pg/L	22.2
32774-16-6	PCB-169	U	22.2	22.2	pg/L	22.2
35065-30-6	PCB-170		2080	2080	pg/L	22.2
52663-71-5	PCB-173/171	C	578	576	pg/L	44.4
52663-74-8	PCB-172		326	324	pg/L	22.2
38411-25-5	PCB-174		1930	1930	pg/L	22.2
40186-70-7	PCB-175		55.1	53.8	pg/L	22.2
52663-65-7	PCB-176		137	136	pg/L	22.2
52663-70-4	PCB-177		945	944	pg/L	22.2
52663-67-9	PCB-178		258	257	pg/L	22.2
52663-64-6	PCB-179		436	435	pg/L	22.2
35065-29-3	PCB-193/180	C	3960	3960	pg/L	44.4
74472-47-2	PCB-181	U	22.2	22.2	pg/L	22.2
60145-23-5	PCB-182	U	22.2	22.2	pg/L	22.2
52663-69-1	PCB-183/185	C	901	900	pg/L	44.4
74472-48-3	PCB-184	U	22.2	22.2	pg/L	22.2
74472-49-4	PCB-186	U	22.2	22.2	pg/L	22.2
52663-68-0	PCB-187		1440	1430	pg/L	22.2
74487-85-7	PCB-188	U	22.2	22.2	pg/L	22.2
39635-31-9	PCB-189		96.6	95.5	pg/L	22.2
41411-64-7	PCB-190		416	414	pg/L	22.2
74472-50-7	PCB-191		77.3	76.2	pg/L	22.2
74472-51-8	PCB-192	U	22.2	22.2	pg/L	22.2
35694-08-7	PCB-194		666	665	pg/L	22.2
52663-78-2	PCB-195		255	254	pg/L	22.2
42740-50-1	PCB-196	U	22.2	22.2	pg/L	22.2
33091-17-7	PCB-197/200	CU	44.4	44.4	pg/L	44.4
68194-17-2	PCB-198/199	C	676	675	pg/L	44.4
40186-71-8	PCB-201		61.1	60.1	pg/L	22.2
2136-99-4	PCB-202		98.7	97.7	pg/L	22.2
52663-76-0	PCB-203		382	381	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	22.2	22.2	pg/L	22.2
74472-53-0	PCB-205		32.8	32	pg/L	22.2
40186-72-9	PCB-206		223	222	pg/L	22.2
52663-79-3	PCB-207		23.4	22.4	pg/L	22.2
52663-77-1	PCB-208		54.4	53.4	pg/L	22.2
2051-24-3	PCB-209		43.2	42	pg/L	22.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		99.6	94.9	pg/L	
25323-68-6	Total Tri PCBs		802	794	pg/L	
26914-33-0	Total Tetra PCBs		2420	2410	pg/L	
25429-29-2	Total Penta PCBs		20200	20200	pg/L	
26601-64-9	Total Hexa PCBs		35600	35600	pg/L	
28655-71-2	Total Hepta PCBs		13600	13600	pg/L	
55722-26-4	Total Octa PCBs		2170	2160	pg/L	
53742-07-7	Total Nona PCBs		301	297	pg/L	
2051-24-3	Total Deca PCB		43.2	42	pg/L	
	Total PCB Congeners		75300	75200	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1230	2220	pg/L	55.4	(15%-150%)
13C-3-MoCB		1380	2220	pg/L	62.2	(15%-150%)
13C-4-DiCB		1500	2220	pg/L	67.6	(25%-150%)
13C-15-DiCB		2000	2220	pg/L	90.2	(25%-150%)
13C-19-TrCB		1980	2220	pg/L	89.2	(25%-150%)
13C-37-TrCB		1820	2220	pg/L	82.1	(25%-150%)
13C-54-TeCB		1480	2220	pg/L	66.7	(25%-150%)
13C-77-TeCB		1790	2220	pg/L	80.5	(25%-150%)
13C-81-TeCB		1790	2220	pg/L	80.6	(25%-150%)
13C-104-PeCB		1710	2220	pg/L	76.9	(25%-150%)
13C-105-PeCB		1580	2220	pg/L	71.4	(25%-150%)
13C-114-PeCB		1530	2220	pg/L	68.9	(25%-150%)
13C-118-PeCB		1530	2220	pg/L	69.1	(25%-150%)
13C-123-PeCB		1630	2220	pg/L	73.5	(25%-150%)
13C-126-PeCB		1540	2220	pg/L	69.3	(25%-150%)
13C-155-HxCB		1950	2220	pg/L	88.0	(25%-150%)
13C-156-HxCB	C	2880	4440	pg/L	64.9	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1430	2220	pg/L	64.3	(25%-150%)
13C-169-HxCB		1560	2220	pg/L	70.4	(25%-150%)
13C-188-HpCB		1750	2220	pg/L	79.0	(25%-150%)
13C-189-HpCB		1320	2220	pg/L	59.3	(25%-150%)
13C-202-OcCB		1670	2220	pg/L	75.4	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10861		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 17:46	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-8		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 901 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-205-OcCB		1760	2220	pg/L	79.2	(25%-150%)
13C-206-NoCB		1890	2220	pg/L	85.2	(25%-150%)
13C-208-NoCB		1630	2220	pg/L	73.6	(25%-150%)
13C-209-DeCB		1720	2220	pg/L	77.4	(25%-150%)
13C-28-TrCB		1620	2220	pg/L	72.9	(30%-135%)
13C-111-PeCB		1910	2220	pg/L	86.1	(30%-135%)
13C-178-HpCB		2230	2220	pg/L	101	(30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3343
Lab Sample ID: 2707001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10901
Batch ID: 19569
Run Date: 09/18/2011 16:40
Data File: c16sep11a_5-7
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 08/31/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 937.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.3	21.3	pg/L	21.3
2051-61-8	PCB-2	U	21.3	21.3	pg/L	21.3
2051-62-9	PCB-3	U	21.3	21.3	pg/L	21.3
13029-08-8	PCB-4	U	107	107	pg/L	107
16605-91-7	PCB-5	U	21.3	21.3	pg/L	21.3
25569-80-6	PCB-6	U	21.3	21.3	pg/L	21.3
33284-50-3	PCB-7	U	21.3	21.3	pg/L	21.3
34883-43-7	PCB-8	U	23.4	21.3	pg/L	21.3
34883-39-1	PCB-9	U	21.3	21.3	pg/L	21.3
33146-45-1	PCB-10	U	107	107	pg/L	107
2050-67-1	PCB-11	U	107	107	pg/L	107
2974-92-7	PCB-13/12	CU	42.7	42.7	pg/L	42.7
34883-41-5	PCB-14	U	21.3	21.3	pg/L	21.3
2050-68-2	PCB-15	U	21.3	21.3	pg/L	21.3
38444-78-9	PCB-16	U	107	107	pg/L	107
37680-66-3	PCB-17	U	21.3	21.3	pg/L	21.3
37680-65-2	PCB-18/30	CU	42.7	42.7	pg/L	42.7
38444-73-4	PCB-19	U	21.3	21.3	pg/L	21.3
38444-84-7	PCB-20/28	C	52.6	51.7	pg/L	42.7
55702-46-0	PCB-21/33	CU	42.7	42.7	pg/L	42.7
38444-85-8	PCB-22	U	21.3	21.3	pg/L	21.3
55720-44-0	PCB-23	U	21.3	21.3	pg/L	21.3
55702-45-9	PCB-24	U	21.3	21.3	pg/L	21.3
55712-37-3	PCB-25	U	21.3	21.3	pg/L	21.3
38444-81-4	PCB-26/29	CU	42.7	42.7	pg/L	42.7
38444-76-7	PCB-27	U	21.3	21.3	pg/L	21.3
16606-02-3	PCB-31		57.2	56.4	pg/L	21.3
38444-77-8	PCB-32	U	21.3	21.3	pg/L	21.3
37680-68-5	PCB-34	U	21.3	21.3	pg/L	21.3
37680-69-6	PCB-35	U	21.3	21.3	pg/L	21.3
38444-87-0	PCB-36	U	21.3	21.3	pg/L	21.3
38444-90-5	PCB-37	U	21.3	21.3	pg/L	21.3

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3343
Lab Sample ID: 2707001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10901
Batch ID: 19569
Run Date: 09/18/2011 16:40
Data File: c16sep11a_5-7
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 08/31/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 937.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.3	21.3	pg/L	21.3
38444-88-1	PCB-39	U	21.3	21.3	pg/L	21.3
38444-93-8	PCB-40/71	C	79.1	77.2	pg/L	42.7
52663-59-9	PCB-41	U	107	107	pg/L	107
36559-22-5	PCB-42		32.7	30.8	pg/L	21.3
70362-46-8	PCB-43	U	21.3	21.3	pg/L	21.3
41464-39-5	PCB-44/65/47	CU	64	64	pg/L	64.0
70362-45-7	PCB-45/51	CU	42.7	42.7	pg/L	42.7
41464-47-5	PCB-46	U	21.3	21.3	pg/L	21.3
70362-47-9	PCB-48	U	21.3	21.3	pg/L	21.3
41464-40-8	PCB-69/49	C	277	275	pg/L	42.7
62796-65-0	PCB-50/53	CU	42.7	42.7	pg/L	42.7
35693-99-3	PCB-52		1790	1790	pg/L	21.3
15968-05-5	PCB-54	U	21.3	21.3	pg/L	21.3
74338-24-2	PCB-55	U	21.3	21.3	pg/L	21.3
41464-43-1	PCB-56		149	148	pg/L	21.3
70424-67-8	PCB-57	U	21.3	21.3	pg/L	21.3
41464-49-7	PCB-58	U	21.3	21.3	pg/L	21.3
74472-33-6	PCB-59/62/75	CU	64	64	pg/L	64.0
33025-41-1	PCB-60		52.8	51.6	pg/L	21.3
33284-53-6	PCB-61/76/70/74	C	1520	1520	pg/L	85.3
74472-34-7	PCB-63	U	21.3	21.3	pg/L	21.3
52663-58-8	PCB-64	U	21.3	21.3	pg/L	21.3
32598-10-0	PCB-66	U	21.3	21.3	pg/L	21.3
73575-53-8	PCB-67	U	21.3	21.3	pg/L	21.3
73575-52-7	PCB-68	U	21.3	21.3	pg/L	21.3
41464-42-0	PCB-72	U	21.3	21.3	pg/L	21.3
74338-23-1	PCB-73	U	21.3	21.3	pg/L	21.3
32598-13-3	PCB-77		130	129	pg/L	21.3
70362-49-1	PCB-78	U	21.3	21.3	pg/L	21.3
41464-48-6	PCB-79		37.8	36.8	pg/L	21.3
33284-52-5	PCB-80	U	21.3	21.3	pg/L	21.3

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10901		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 16:40	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-7		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 937.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.3	21.3	pg/L	21.3
52663-62-4	PCB-82		423	422	pg/L	21.3
60145-20-2	PCB-83		254	252	pg/L	21.3
52663-60-2	PCB-84		1080	1080	pg/L	21.3
65510-45-4	PCB-117/116/85	C	623	622	pg/L	64.0
55312-69-1	PCB-86/87/97/109/119/125	C	2940	2940	pg/L	128
55215-17-3	PCB-88/91	C	425	423	pg/L	42.7
73575-57-2	PCB-89	U	21.3	21.3	pg/L	21.3
68194-07-0	PCB-113/90/101	C	4160	4160	pg/L	64.0
52663-61-3	PCB-92		772	771	pg/L	21.3
73575-56-1	PCB-93/100	CU	42.7	42.7	pg/L	42.7
73575-55-0	PCB-94	U	21.3	21.3	pg/L	21.3
38379-99-6	PCB-95		2680	2680	pg/L	21.3
73575-54-9	PCB-96	U	21.3	21.3	pg/L	21.3
60233-25-2	PCB-102/98	CU	43.3	42.7	pg/L	42.7
38380-01-7	PCB-99		1540	1540	pg/L	107
60145-21-3	PCB-103	U	21.3	21.3	pg/L	21.3
56558-16-8	PCB-104	U	21.3	21.3	pg/L	21.3
32598-14-4	PCB-105		1860	1860	pg/L	107
70424-69-0	PCB-106	U	21.3	21.3	pg/L	21.3
70424-68-9	PCB-107		347	345	pg/L	21.3
70362-41-3	PCB-108/124	C	185	184	pg/L	42.7
38380-03-9	PCB-110/115	CU	42.7	42.7	pg/L	42.7
39635-32-0	PCB-111	U	21.3	21.3	pg/L	21.3
74472-36-9	PCB-112	U	21.3	21.3	pg/L	21.3
74472-37-0	PCB-114		79.1	77.7	pg/L	21.3
31508-00-6	PCB-118		4460	4460	pg/L	21.3
68194-12-7	PCB-120	U	21.3	21.3	pg/L	21.3
56558-18-0	PCB-121	U	21.3	21.3	pg/L	21.3
76842-07-4	PCB-122		40.8	39.3	pg/L	21.3
65510-44-3	PCB-123	U	107	107	pg/L	107
57465-28-8	PCB-126		125	124	pg/L	21.3

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10901		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 16:40	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-7		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 937.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.3	21.3	pg/L	21.3
38380-07-3	PCB-128/166	C	1400	1400	pg/L	42.7
55215-18-4	PCB-138/163/129	C	7120	7120	pg/L	64.0
52663-66-8	PCB-130		461	458	pg/L	21.3
61798-70-7	PCB-131		83.7	81.3	pg/L	21.3
38380-05-1	PCB-132		1930	1930	pg/L	21.3
35694-04-3	PCB-133		67.6	65.3	pg/L	21.3
52704-70-8	PCB-134		288	285	pg/L	107
52744-13-5	PCB-151/135	C	1030	1030	pg/L	42.7
38411-22-2	PCB-136		436	435	pg/L	21.3
35694-06-5	PCB-137		366	364	pg/L	21.3
56030-56-9	PCB-139/140	C	107	105	pg/L	42.7
52712-04-6	PCB-141		991	988	pg/L	21.3
41411-61-4	PCB-142	U	21.3	21.3	pg/L	21.3
68194-15-0	PCB-143	U	21.3	21.3	pg/L	21.3
68194-14-9	PCB-144		158	157	pg/L	21.3
74472-40-5	PCB-145	U	21.3	21.3	pg/L	21.3
51908-16-8	PCB-146		820	817	pg/L	21.3
68194-13-8	PCB-147/149	C	3370	3370	pg/L	42.7
74472-41-6	PCB-148	U	21.3	21.3	pg/L	21.3
68194-08-1	PCB-150	U	21.3	21.3	pg/L	21.3
68194-09-2	PCB-152	U	21.3	21.3	pg/L	21.3
35065-27-1	PCB-153/168	C	3920	3920	pg/L	42.7
60145-22-4	PCB-154		41.2	39.8	pg/L	21.3
33979-03-2	PCB-155	U	21.3	21.3	pg/L	21.3
38380-08-4	PCB-156/157	C	1220	1220	pg/L	42.7
74472-42-7	PCB-158		831	829	pg/L	21.3
39635-35-3	PCB-159	U	21.3	21.3	pg/L	21.3
41411-62-5	PCB-160	U	21.3	21.3	pg/L	21.3
74472-43-8	PCB-161	U	21.3	21.3	pg/L	21.3
39635-34-2	PCB-162		40.4	39.3	pg/L	21.3
74472-45-0	PCB-164		549	547	pg/L	21.3

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3343
Lab Sample ID: 2707001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10901
Batch ID: 19569
Run Date: 09/18/2011 16:40
Data File: c16sep11a_5-7
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 08/31/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 937.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.3	21.3	pg/L	21.3
52663-72-6	PCB-167		435	434	pg/L	21.3
32774-16-6	PCB-169	U	21.3	21.3	pg/L	21.3
35065-30-6	PCB-170		1030	1020	pg/L	21.3
52663-71-5	PCB-173/171	C	283	281	pg/L	42.7
52663-74-8	PCB-172		134	132	pg/L	21.3
38411-25-5	PCB-174		713	712	pg/L	21.3
40186-70-7	PCB-175	U	22.3	21.3	pg/L	21.3
52663-65-7	PCB-176		53.3	52.2	pg/L	21.3
52663-70-4	PCB-177		375	373	pg/L	21.3
52663-67-9	PCB-178		88.6	87.2	pg/L	21.3
52663-64-6	PCB-179		142	141	pg/L	21.3
35065-29-3	PCB-193/180	C	1480	1480	pg/L	42.7
74472-47-2	PCB-181	U	21.3	21.3	pg/L	21.3
60145-23-5	PCB-182	U	21.3	21.3	pg/L	21.3
52663-69-1	PCB-183/185	C	346	344	pg/L	42.7
74472-48-3	PCB-184	U	21.3	21.3	pg/L	21.3
74472-49-4	PCB-186	U	21.3	21.3	pg/L	21.3
52663-68-0	PCB-187		479	477	pg/L	21.3
74487-85-7	PCB-188	U	21.3	21.3	pg/L	21.3
39635-31-9	PCB-189		52.6	51.5	pg/L	21.3
41411-64-7	PCB-190		184	183	pg/L	21.3
74472-50-7	PCB-191		34.7	33.6	pg/L	21.3
74472-51-8	PCB-192	U	21.3	21.3	pg/L	21.3
35694-08-7	PCB-194		171	170	pg/L	21.3
52663-78-2	PCB-195		65.4	64.4	pg/L	21.3
42740-50-1	PCB-196		78.5	77.2	pg/L	21.3
33091-17-7	PCB-197/200	CU	42.7	42.7	pg/L	42.7
68194-17-2	PCB-198/199	C	179	178	pg/L	42.7
40186-71-8	PCB-201	U	21.3	21.3	pg/L	21.3
2136-99-4	PCB-202		26.9	26	pg/L	21.3
52663-76-0	PCB-203		103	102	pg/L	21.3

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10901		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 16:40	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-7		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 937.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.3	21.3	pg/L	21.3
74472-53-0	PCB-205	U	21.3	21.3	pg/L	21.3
40186-72-9	PCB-206		73.8	72.6	pg/L	21.3
52663-79-3	PCB-207	U	21.3	21.3	pg/L	21.3
52663-77-1	PCB-208	U	21.3	21.3	pg/L	21.3
2051-24-3	PCB-209	U	21.3	21.3	pg/L	21.3
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	23.4	0	pg/L	
25323-68-6	Total Tri PCBs		57.2	56.4	pg/L	
26914-33-0	Total Tetra PCBs		4070	4060	pg/L	
25429-29-2	Total Penta PCBs		22100	22000	pg/L	
26601-64-9	Total Hexa PCBs		25700	25600	pg/L	
28655-71-2	Total Hepta PCBs		5410	5370	pg/L	
55722-26-4	Total Octa PCBs		624	617	pg/L	
53742-07-7	Total Nona PCBs		73.8	72.6	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		58000	57800	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1050	2130	pg/L	49.2	(15%-150%)
13C-3-MoCB		1270	2130	pg/L	59.4	(15%-150%)
13C-4-DiCB		1360	2130	pg/L	63.7	(25%-150%)
13C-15-DiCB		1840	2130	pg/L	86.4	(25%-150%)
13C-19-TrCB		1780	2130	pg/L	83.2	(25%-150%)
13C-37-TrCB		1860	2130	pg/L	87.4	(25%-150%)
13C-54-TeCB		1510	2130	pg/L	71.0	(25%-150%)
13C-77-TeCB		1860	2130	pg/L	87.2	(25%-150%)
13C-81-TeCB		1830	2130	pg/L	85.9	(25%-150%)
13C-104-PeCB		1740	2130	pg/L	81.6	(25%-150%)
13C-105-PeCB		1680	2130	pg/L	78.6	(25%-150%)
13C-114-PeCB		1610	2130	pg/L	75.5	(25%-150%)
13C-118-PeCB		1620	2130	pg/L	76.0	(25%-150%)
13C-123-PeCB		1710	2130	pg/L	80.1	(25%-150%)
13C-126-PeCB		1650	2130	pg/L	77.4	(25%-150%)
13C-155-HxCB		2010	2130	pg/L	94.3	(25%-150%)
13C-156-HxCB	C	3080	4270	pg/L	72.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1500	2130	pg/L	70.5	(25%-150%)
13C-169-HxCB		1710	2130	pg/L	80.0	(25%-150%)
13C-188-HpCB		1800	2130	pg/L	84.4	(25%-150%)
13C-189-HpCB		1410	2130	pg/L	66.3	(25%-150%)
13C-202-OcCB		1800	2130	pg/L	84.4	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-10901		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 16:40	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-7		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 937.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1890	2130	pg/L	88.4 (25%-150%)
13C-206-NoCB			2050	2130	pg/L	95.9 (25%-150%)
13C-208-NoCB			1760	2130	pg/L	82.7 (25%-150%)
13C-209-DeCB			1860	2130	pg/L	87.3 (25%-150%)
13C-28-TrCB			1650	2130	pg/L	77.5 (30%-135%)
13C-111-PeCB			2030	2130	pg/L	95.0 (30%-135%)
13C-178-HpCB			2400	2130	pg/L	113 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707003	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-11030		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 18:51	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-9		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 902.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	22.2	22.2	pg/L	22.2
2051-61-8	PCB-2	U	22.2	22.2	pg/L	22.2
2051-62-9	PCB-3	U	22.2	22.2	pg/L	22.2
13029-08-8	PCB-4	U	111	111	pg/L	111
16605-91-7	PCB-5	U	22.2	22.2	pg/L	22.2
25569-80-6	PCB-6	U	22.2	22.2	pg/L	22.2
33284-50-3	PCB-7	U	22.2	22.2	pg/L	22.2
34883-43-7	PCB-8	U	22.2	22.2	pg/L	22.2
34883-39-1	PCB-9	U	22.2	22.2	pg/L	22.2
33146-45-1	PCB-10	U	111	111	pg/L	111
2050-67-1	PCB-11	B	247	244	pg/L	111
2974-92-7	PCB-13/12	CU	44.3	44.3	pg/L	44.3
34883-41-5	PCB-14	U	22.2	22.2	pg/L	22.2
2050-68-2	PCB-15	U	22.2	22.2	pg/L	22.2
38444-78-9	PCB-16	U	111	111	pg/L	111
37680-66-3	PCB-17	U	22.2	22.2	pg/L	22.2
37680-65-2	PCB-18/30	CU	44.3	44.3	pg/L	44.3
38444-73-4	PCB-19	U	22.2	22.2	pg/L	22.2
38444-84-7	PCB-20/28	C	63.7	62.8	pg/L	44.3
55702-46-0	PCB-21/33	CU	44.3	44.3	pg/L	44.3
38444-85-8	PCB-22	U	22.2	22.2	pg/L	22.2
55720-44-0	PCB-23	U	22.2	22.2	pg/L	22.2
55702-45-9	PCB-24	U	22.2	22.2	pg/L	22.2
55712-37-3	PCB-25	U	22.2	22.2	pg/L	22.2
38444-81-4	PCB-26/29	CU	44.3	44.3	pg/L	44.3
38444-76-7	PCB-27	U	22.2	22.2	pg/L	22.2
16606-02-3	PCB-31	B	41.6	40.8	pg/L	22.2
38444-77-8	PCB-32	U	22.2	22.2	pg/L	22.2
37680-68-5	PCB-34	U	22.2	22.2	pg/L	22.2
37680-69-6	PCB-35	U	22.2	22.2	pg/L	22.2
38444-87-0	PCB-36	U	22.2	22.2	pg/L	22.2
38444-90-5	PCB-37	U	22.2	22.2	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707003	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-11030		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 18:51	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-9		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 902.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	22.2	22.2	pg/L	22.2
38444-88-1	PCB-39	U	22.2	22.2	pg/L	22.2
38444-93-8	PCB-40/71	CU	44.3	44.3	pg/L	44.3
52663-59-9	PCB-41	U	111	111	pg/L	111
36559-22-5	PCB-42	U	22.2	22.2	pg/L	22.2
70362-46-8	PCB-43	U	22.2	22.2	pg/L	22.2
41464-39-5	PCB-44/65/47	CU	66.5	66.5	pg/L	66.5
70362-45-7	PCB-45/51	CU	44.3	44.3	pg/L	44.3
41464-47-5	PCB-46	U	22.2	22.2	pg/L	22.2
70362-47-9	PCB-48	U	22.2	22.2	pg/L	22.2
41464-40-8	PCB-69/49	CU	44.3	44.3	pg/L	44.3
62796-65-0	PCB-50/53	CU	44.3	44.3	pg/L	44.3
35693-99-3	PCB-52		124	122	pg/L	22.2
15968-05-5	PCB-54	U	22.2	22.2	pg/L	22.2
74338-24-2	PCB-55	U	22.2	22.2	pg/L	22.2
41464-43-1	PCB-56		41.0	39.6	pg/L	22.2
70424-67-8	PCB-57	U	22.2	22.2	pg/L	22.2
41464-49-7	PCB-58	U	22.2	22.2	pg/L	22.2
74472-33-6	PCB-59/62/75	CU	66.5	66.5	pg/L	66.5
33025-41-1	PCB-60	U	22.2	22.2	pg/L	22.2
33284-53-6	PCB-61/76/70/74	C	179	178	pg/L	88.6
74472-34-7	PCB-63	U	22.2	22.2	pg/L	22.2
52663-58-8	PCB-64		32.9	31.5	pg/L	22.2
32598-10-0	PCB-66		66.8	65.7	pg/L	22.2
73575-53-8	PCB-67	U	22.2	22.2	pg/L	22.2
73575-52-7	PCB-68	U	22.2	22.2	pg/L	22.2
41464-42-0	PCB-72	U	22.2	22.2	pg/L	22.2
74338-23-1	PCB-73	U	22.2	22.2	pg/L	22.2
32598-13-3	PCB-77		31.6	30.5	pg/L	22.2
70362-49-1	PCB-78	U	22.2	22.2	pg/L	22.2
41464-48-6	PCB-79	U	22.2	22.2	pg/L	22.2
33284-52-5	PCB-80	U	22.2	22.2	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707003	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-11030		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 18:51	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-9		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 902.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	22.2	22.2	pg/L	22.2
52663-62-4	PCB-82		36.7	35.3	pg/L	22.2
60145-20-2	PCB-83	U	22.2	22.2	pg/L	22.2
52663-60-2	PCB-84		79.5	77.8	pg/L	22.2
65510-45-4	PCB-117/116/85	CU	66.5	66.5	pg/L	66.5
55312-69-1	PCB-86/87/97/109/119/125	C	205	204	pg/L	133
55215-17-3	PCB-88/91	CU	44.3	44.3	pg/L	44.3
73575-57-2	PCB-89	U	22.2	22.2	pg/L	22.2
68194-07-0	PCB-113/90/101	C	327	326	pg/L	66.5
52663-61-3	PCB-92		52.2	50.9	pg/L	22.2
73575-56-1	PCB-93/100	CU	44.3	44.3	pg/L	44.3
73575-55-0	PCB-94	U	22.2	22.2	pg/L	22.2
38379-99-6	PCB-95		226	225	pg/L	22.2
73575-54-9	PCB-96	U	22.2	22.2	pg/L	22.2
60233-25-2	PCB-102/98	CU	44.3	44.3	pg/L	44.3
38380-01-7	PCB-99	U	111	111	pg/L	111
60145-21-3	PCB-103	U	22.2	22.2	pg/L	22.2
56558-16-8	PCB-104	U	22.2	22.2	pg/L	22.2
32598-14-4	PCB-105		129	128	pg/L	111
70424-69-0	PCB-106	U	22.2	22.2	pg/L	22.2
70424-68-9	PCB-107		24.2	22.7	pg/L	22.2
70362-41-3	PCB-108/124	CU	44.3	44.3	pg/L	44.3
38380-03-9	PCB-110/115	CU	44.3	44.3	pg/L	44.3
39635-32-0	PCB-111	U	22.2	22.2	pg/L	22.2
74472-36-9	PCB-112	U	22.2	22.2	pg/L	22.2
74472-37-0	PCB-114	U	22.2	22.2	pg/L	22.2
31508-00-6	PCB-118		306	305	pg/L	22.2
68194-12-7	PCB-120	U	22.2	22.2	pg/L	22.2
56558-18-0	PCB-121	U	22.2	22.2	pg/L	22.2
76842-07-4	PCB-122	U	22.2	22.2	pg/L	22.2
65510-44-3	PCB-123	U	111	111	pg/L	111
57465-28-8	PCB-126	U	22.2	22.2	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707003	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-11030		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 18:51	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-9		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 902.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	22.2	22.2	pg/L	22.2
38380-07-3	PCB-128/166	C	105	103	pg/L	44.3
55215-18-4	PCB-138/163/129	C	970	968	pg/L	66.5
52663-66-8	PCB-130		55.5	53.1	pg/L	22.2
61798-70-7	PCB-131	U	22.2	22.2	pg/L	22.2
38380-05-1	PCB-132		266	264	pg/L	22.2
35694-04-3	PCB-133	U	22.2	22.2	pg/L	22.2
52704-70-8	PCB-134	U	111	111	pg/L	111
52744-13-5	PCB-151/135	C	299	297	pg/L	44.3
38411-22-2	PCB-136		91.9	90.8	pg/L	22.2
35694-06-5	PCB-137	U	23.9	22.2	pg/L	22.2
56030-56-9	PCB-139/140	CU	44.3	44.3	pg/L	44.3
52712-04-6	PCB-141		214	211	pg/L	22.2
41411-61-4	PCB-142	U	22.2	22.2	pg/L	22.2
68194-15-0	PCB-143	U	22.2	22.2	pg/L	22.2
68194-14-9	PCB-144		34.3	33	pg/L	22.2
74472-40-5	PCB-145	U	22.2	22.2	pg/L	22.2
51908-16-8	PCB-146		172	170	pg/L	22.2
68194-13-8	PCB-147/149	C	807	800	pg/L	44.3
74472-41-6	PCB-148	U	22.2	22.2	pg/L	22.2
68194-08-1	PCB-150	U	22.2	22.2	pg/L	22.2
68194-09-2	PCB-152	U	22.2	22.2	pg/L	22.2
35065-27-1	PCB-153/168	C	784	783	pg/L	44.3
60145-22-4	PCB-154	U	22.2	22.2	pg/L	22.2
33979-03-2	PCB-155	U	22.2	22.2	pg/L	22.2
38380-08-4	PCB-156/157	C	86.9	85.4	pg/L	44.3
74472-42-7	PCB-158		101	99.6	pg/L	22.2
39635-35-3	PCB-159	U	22.2	22.2	pg/L	22.2
41411-62-5	PCB-160	U	22.2	22.2	pg/L	22.2
74472-43-8	PCB-161	U	22.2	22.2	pg/L	22.2
39635-34-2	PCB-162	U	22.2	22.2	pg/L	22.2
74472-45-0	PCB-164		85.3	83.2	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707003	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-11030		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 18:51	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-9		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 902.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	22.2	22.2	pg/L	22.2
52663-72-6	PCB-167		49.2	48	pg/L	22.2
32774-16-6	PCB-169	U	22.2	22.2	pg/L	22.2
35065-30-6	PCB-170		368	366	pg/L	22.2
52663-71-5	PCB-173/171	C	114	112	pg/L	44.3
52663-74-8	PCB-172		74.5	73	pg/L	22.2
38411-25-5	PCB-174		484	482	pg/L	22.2
40186-70-7	PCB-175	U	22.2	22.2	pg/L	22.2
52663-65-7	PCB-176		36.8	35.7	pg/L	22.2
52663-70-4	PCB-177		232	230	pg/L	22.2
52663-67-9	PCB-178		81.3	79.9	pg/L	22.2
52663-64-6	PCB-179		136	135	pg/L	22.2
35065-29-3	PCB-193/180	C	945	943	pg/L	44.3
74472-47-2	PCB-181	U	22.2	22.2	pg/L	22.2
60145-23-5	PCB-182	U	22.2	22.2	pg/L	22.2
52663-69-1	PCB-183/185	C	235	234	pg/L	44.3
74472-48-3	PCB-184	U	22.2	22.2	pg/L	22.2
74472-49-4	PCB-186	U	22.2	22.2	pg/L	22.2
52663-68-0	PCB-187		440	438	pg/L	22.2
74487-85-7	PCB-188	U	22.2	22.2	pg/L	22.2
39635-31-9	PCB-189	U	22.2	22.2	pg/L	22.2
41411-64-7	PCB-190		77.4	76.3	pg/L	22.2
74472-50-7	PCB-191	U	22.2	22.2	pg/L	22.2
74472-51-8	PCB-192	U	22.2	22.2	pg/L	22.2
35694-08-7	PCB-194		185	184	pg/L	22.2
52663-78-2	PCB-195		72.2	71.3	pg/L	22.2
42740-50-1	PCB-196		89.3	88	pg/L	22.2
33091-17-7	PCB-197/200	CU	44.3	44.3	pg/L	44.3
68194-17-2	PCB-198/199	C	201	200	pg/L	44.3
40186-71-8	PCB-201	U	22.2	22.2	pg/L	22.2
2136-99-4	PCB-202		29.5	28.5	pg/L	22.2
52663-76-0	PCB-203		112	111	pg/L	22.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3343
Lab Sample ID: 2707003
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-11030
Batch ID: 19569
Run Date: 09/18/2011 18:51
Data File: c16sep11a_5-9
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 08/31/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 902.8 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	22.2	22.2	pg/L	22.2
74472-53-0	PCB-205	U	22.2	22.2	pg/L	22.2
40186-72-9	PCB-206	U	22.2	22.2	pg/L	22.2
52663-79-3	PCB-207	U	22.2	22.2	pg/L	22.2
52663-77-1	PCB-208	U	22.2	22.2	pg/L	22.2
2051-24-3	PCB-209	U	22.2	22.2	pg/L	22.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs		63.7	62.8	pg/L	
26914-33-0	Total Tetra PCBs		475	467	pg/L	
25429-29-2	Total Penta PCBs		1390	1370	pg/L	
26601-64-9	Total Hexa PCBs		4150	4090	pg/L	
28655-71-2	Total Hepta PCBs		3220	3210	pg/L	
55722-26-4	Total Octa PCBs		689	683	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		10000	9880	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1490	2220	pg/L	67.1	(15%-150%)
13C-3-MoCB		1610	2220	pg/L	72.7	(15%-150%)
13C-4-DiCB		1800	2220	pg/L	81.1	(25%-150%)
13C-15-DiCB		2180	2220	pg/L	98.6	(25%-150%)
13C-19-TrCB		2250	2220	pg/L	102	(25%-150%)
13C-37-TrCB		1890	2220	pg/L	85.3	(25%-150%)
13C-54-TeCB		1630	2220	pg/L	73.6	(25%-150%)
13C-77-TeCB		1780	2220	pg/L	80.3	(25%-150%)
13C-81-TeCB		1770	2220	pg/L	79.8	(25%-150%)
13C-104-PeCB		1850	2220	pg/L	83.3	(25%-150%)
13C-105-PeCB		1560	2220	pg/L	70.6	(25%-150%)
13C-114-PeCB		1530	2220	pg/L	69.2	(25%-150%)
13C-118-PeCB		1550	2220	pg/L	69.9	(25%-150%)
13C-123-PeCB		1630	2220	pg/L	73.4	(25%-150%)
13C-126-PeCB		1440	2220	pg/L	64.9	(25%-150%)
13C-155-HxCB		2260	2220	pg/L	102	(25%-150%)
13C-156-HxCB	C	2830	4430	pg/L	63.8	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1410	2220	pg/L	63.6	(25%-150%)
13C-169-HxCB		1400	2220	pg/L	63.2	(25%-150%)
13C-188-HpCB		2360	2220	pg/L	106	(25%-150%)
13C-189-HpCB		1410	2220	pg/L	63.7	(25%-150%)
13C-202-OcCB		2070	2220	pg/L	93.3	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3343	Client: LANL001	Project: LANL00109
Lab Sample ID: 2707003	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 08/31/2011 10:00	
Client ID: WT_IPMOR-11-11030		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/18/2011 18:51	Analyst: MJC	Instrument: HRP791
Data File: c16sep11a_5-9		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 902.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-205-OcCB		1780	2220		pg/L	80.2 (25%-150%)
13C-206-NoCB		1820	2220		pg/L	82.3 (25%-150%)
13C-208-NoCB		1820	2220		pg/L	82.0 (25%-150%)
13C-209-DeCB		1610	2220		pg/L	72.8 (25%-150%)
13C-28-TrCB		1810	2220		pg/L	81.5 (30%-135%)
13C-111-PeCB		2060	2220		pg/L	93.1 (30%-135%)
13C-178-HpCB		2360	2220		pg/L	107 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10481		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 17:57	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-4		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 871.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	23	23	pg/L	23.0
2051-61-8	PCB-2	U	23	23	pg/L	23.0
2051-62-9	PCB-3	U	23	23	pg/L	23.0
13029-08-8	PCB-4	U	115	115	pg/L	115
16605-91-7	PCB-5	U	23	23	pg/L	23.0
25569-80-6	PCB-6	U	23	23	pg/L	23.0
33284-50-3	PCB-7	U	23	23	pg/L	23.0
34883-43-7	PCB-8	U	23	23	pg/L	23.0
34883-39-1	PCB-9	U	23	23	pg/L	23.0
33146-45-1	PCB-10	U	115	115	pg/L	115
2050-67-1	PCB-11	B	279	276	pg/L	115
2974-92-7	PCB-13/12	CU	45.9	45.9	pg/L	45.9
34883-41-5	PCB-14	U	23	23	pg/L	23.0
2050-68-2	PCB-15		29.8	27.5	pg/L	23.0
38444-78-9	PCB-16	U	115	115	pg/L	115
37680-66-3	PCB-17		29.9	28.4	pg/L	23.0
37680-65-2	PCB-18/30	C	60.3	59.3	pg/L	45.9
38444-73-4	PCB-19	U	23	23	pg/L	23.0
38444-84-7	PCB-20/28	C	141	140	pg/L	45.9
55702-46-0	PCB-21/33	C	78.5	77.6	pg/L	45.9
38444-85-8	PCB-22		34.7	33.8	pg/L	23.0
55720-44-0	PCB-23	U	23	23	pg/L	23.0
55702-45-9	PCB-24	U	23	23	pg/L	23.0
55712-37-3	PCB-25	U	23	23	pg/L	23.0
38444-81-4	PCB-26/29	CU	45.9	45.9	pg/L	45.9
38444-76-7	PCB-27	U	23	23	pg/L	23.0
16606-02-3	PCB-31		90.9	90.1	pg/L	23.0
38444-77-8	PCB-32	U	23.3	23	pg/L	23.0
37680-68-5	PCB-34	U	23	23	pg/L	23.0
37680-69-6	PCB-35	U	23	23	pg/L	23.0
38444-87-0	PCB-36	U	23	23	pg/L	23.0
38444-90-5	PCB-37		58.1	57.1	pg/L	23.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10481		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 17:57	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-4		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 871.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	23	23	pg/L	23.0
38444-88-1	PCB-39	U	23	23	pg/L	23.0
38444-93-8	PCB-40/71	C	250	248	pg/L	45.9
52663-59-9	PCB-41	U	115	115	pg/L	115
36559-22-5	PCB-42		96.2	94.2	pg/L	23.0
70362-46-8	PCB-43	U	23	23	pg/L	23.0
41464-39-5	PCB-44/65/47	C	2140	2140	pg/L	68.9
70362-45-7	PCB-45/51	CU	45.9	45.9	pg/L	45.9
41464-47-5	PCB-46	U	23	23	pg/L	23.0
70362-47-9	PCB-48	U	23	23	pg/L	23.0
41464-40-8	PCB-69/49	C	820	818	pg/L	45.9
62796-65-0	PCB-50/53	C	70.4	69.5	pg/L	45.9
35693-99-3	PCB-52		5460	5450	pg/L	23.0
15968-05-5	PCB-54	U	23	23	pg/L	23.0
74338-24-2	PCB-55	U	23	23	pg/L	23.0
41464-43-1	PCB-56		353	352	pg/L	23.0
70424-67-8	PCB-57	U	23	23	pg/L	23.0
41464-49-7	PCB-58	U	23	23	pg/L	23.0
74472-33-6	PCB-59/62/75	CU	68.9	68.9	pg/L	68.9
33025-41-1	PCB-60		80.4	79.2	pg/L	23.0
33284-53-6	PCB-61/76/70/74	C	4340	4340	pg/L	91.8
74472-34-7	PCB-63	U	23	23	pg/L	23.0
52663-58-8	PCB-64		287	285	pg/L	23.0
32598-10-0	PCB-66		903	902	pg/L	23.0
73575-53-8	PCB-67	U	23	23	pg/L	23.0
73575-52-7	PCB-68	U	23	23	pg/L	23.0
41464-42-0	PCB-72	U	23	23	pg/L	23.0
74338-23-1	PCB-73	U	23	23	pg/L	23.0
32598-13-3	PCB-77		44.9	43.8	pg/L	23.0
70362-49-1	PCB-78	U	23	23	pg/L	23.0
41464-48-6	PCB-79		63.0	62	pg/L	23.0
33284-52-5	PCB-80	U	23	23	pg/L	23.0

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10481		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 17:57	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-4		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 871.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	23	23	pg/L	23.0
52663-62-4	PCB-82		805	804	pg/L	23.0
60145-20-2	PCB-83		400	398	pg/L	23.0
52663-60-2	PCB-84		2800	2790	pg/L	23.0
65510-45-4	PCB-117/116/85	C	990	989	pg/L	68.9
55312-69-1	PCB-86/87/97/109/119/125	C	5790	5790	pg/L	138
55215-17-3	PCB-88/91	C	978	977	pg/L	45.9
73575-57-2	PCB-89		46.9	45.5	pg/L	23.0
68194-07-0	PCB-113/90/101	C	8610	8610	pg/L	68.9
52663-61-3	PCB-92		1430	1430	pg/L	23.0
73575-56-1	PCB-93/100	CU	45.9	45.9	pg/L	45.9
73575-55-0	PCB-94	U	23.3	23	pg/L	23.0
38379-99-6	PCB-95		7880	7880	pg/L	23.0
73575-54-9	PCB-96		32.7	31.7	pg/L	23.0
60233-25-2	PCB-102/98	C	177	175	pg/L	45.9
38380-01-7	PCB-99		2510	2500	pg/L	115
60145-21-3	PCB-103		29.6	28.4	pg/L	23.0
56558-16-8	PCB-104	U	23	23	pg/L	23.0
32598-14-4	PCB-105		2220	2210	pg/L	115
70424-69-0	PCB-106	U	23	23	pg/L	23.0
70424-68-9	PCB-107		394	392	pg/L	23.0
70362-41-3	PCB-108/124	C	230	229	pg/L	45.9
38380-03-9	PCB-110/115	CU	45.9	45.9	pg/L	45.9
39635-32-0	PCB-111	U	23	23	pg/L	23.0
74472-36-9	PCB-112	U	23	23	pg/L	23.0
74472-37-0	PCB-114		92.9	91.6	pg/L	23.0
31508-00-6	PCB-118		6160	6160	pg/L	23.0
68194-12-7	PCB-120	U	23	23	pg/L	23.0
56558-18-0	PCB-121	U	23	23	pg/L	23.0
76842-07-4	PCB-122		55.3	53.9	pg/L	23.0
65510-44-3	PCB-123	U	115	115	pg/L	115
57465-28-8	PCB-126	U	23	23	pg/L	23.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10481		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 17:57	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-4		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 871.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	23	23	pg/L	23.0
38380-07-3	PCB-128/166	C	900	898	pg/L	45.9
55215-18-4	PCB-138/163/129	C	7020	7010	pg/L	68.9
52663-66-8	PCB-130		382	379	pg/L	23.0
61798-70-7	PCB-131		118	116	pg/L	23.0
38380-05-1	PCB-132		2690	2690	pg/L	23.0
35694-04-3	PCB-133		79.2	76.8	pg/L	23.0
52704-70-8	PCB-134		466	463	pg/L	115
52744-13-5	PCB-151/135	C	2680	2680	pg/L	45.9
38411-22-2	PCB-136		1150	1150	pg/L	23.0
35694-06-5	PCB-137		236	234	pg/L	23.0
56030-56-9	PCB-139/140	C	129	127	pg/L	45.9
52712-04-6	PCB-141		1640	1640	pg/L	23.0
41411-61-4	PCB-142	U	23	23	pg/L	23.0
68194-15-0	PCB-143	U	23	23	pg/L	23.0
68194-14-9	PCB-144		343	342	pg/L	23.0
74472-40-5	PCB-145	U	23	23	pg/L	23.0
51908-16-8	PCB-146		1080	1080	pg/L	23.0
68194-13-8	PCB-147/149	C	6820	6810	pg/L	45.9
74472-41-6	PCB-148	U	23	23	pg/L	23.0
68194-08-1	PCB-150	U	23	23	pg/L	23.0
68194-09-2	PCB-152	U	23	23	pg/L	23.0
35065-27-1	PCB-153/168	C	5000	5000	pg/L	45.9
60145-22-4	PCB-154		46.9	45.5	pg/L	23.0
33979-03-2	PCB-155	U	23	23	pg/L	23.0
38380-08-4	PCB-156/157	C	701	699	pg/L	45.9
74472-42-7	PCB-158		793	791	pg/L	23.0
39635-35-3	PCB-159	U	23	23	pg/L	23.0
41411-62-5	PCB-160	U	23	23	pg/L	23.0
74472-43-8	PCB-161	U	23	23	pg/L	23.0
39635-34-2	PCB-162		48.0	46.8	pg/L	23.0
74472-45-0	PCB-164		600	598	pg/L	23.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394
Lab Sample ID: 2725002
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10481
Batch ID: 19569
Run Date: 09/27/2011 17:57
Data File: c26sep11a_3-4
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/02/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 871.3 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	23	23	pg/L	23.0
52663-72-6	PCB-167		227	226	pg/L	23.0
32774-16-6	PCB-169	U	23	23	pg/L	23.0
35065-30-6	PCB-170		1580	1570	pg/L	23.0
52663-71-5	PCB-173/171	C	535	533	pg/L	45.9
52663-74-8	PCB-172		291	290	pg/L	23.0
38411-25-5	PCB-174		2270	2270	pg/L	23.0
40186-70-7	PCB-175		66.8	65.4	pg/L	23.0
52663-65-7	PCB-176		236	235	pg/L	23.0
52663-70-4	PCB-177		1020	1020	pg/L	23.0
52663-67-9	PCB-178		347	345	pg/L	23.0
52663-64-6	PCB-179		809	808	pg/L	23.0
35065-29-3	PCB-193/180	C	4100	4100	pg/L	45.9
74472-47-2	PCB-181	U	23	23	pg/L	23.0
60145-23-5	PCB-182	U	23	23	pg/L	23.0
52663-69-1	PCB-183/185	C	1110	1110	pg/L	45.9
74472-48-3	PCB-184	U	23	23	pg/L	23.0
74472-49-4	PCB-186	U	23	23	pg/L	23.0
52663-68-0	PCB-187		2010	2000	pg/L	23.0
74487-85-7	PCB-188	U	23	23	pg/L	23.0
39635-31-9	PCB-189		59.5	58.4	pg/L	23.0
41411-64-7	PCB-190		333	332	pg/L	23.0
74472-50-7	PCB-191		60.5	59.4	pg/L	23.0
74472-51-8	PCB-192	U	23	23	pg/L	23.0
35694-08-7	PCB-194		738	737	pg/L	23.0
52663-78-2	PCB-195		313	312	pg/L	23.0
42740-50-1	PCB-196		416	414	pg/L	23.0
33091-17-7	PCB-197/200	C	132	131	pg/L	45.9
68194-17-2	PCB-198/199	C	833	832	pg/L	45.9
40186-71-8	PCB-201		99.9	99	pg/L	23.0
2136-99-4	PCB-202		141	140	pg/L	23.0
52663-76-0	PCB-203		465	464	pg/L	23.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10481		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 17:57	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-4		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 871.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	23	23	pg/L	23.0
74472-53-0	PCB-205		37.0	36.2	pg/L	23.0
40186-72-9	PCB-206		179	178	pg/L	23.0
52663-79-3	PCB-207	U	23	23	pg/L	23.0
52663-77-1	PCB-208		37.9	36.9	pg/L	23.0
2051-24-3	PCB-209		30.4	29.2	pg/L	23.0
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		29.8	27.5	pg/L	
25323-68-6	Total Tri PCBs		517	487	pg/L	
26914-33-0	Total Tetra PCBs		14900	14900	pg/L	
25429-29-2	Total Penta PCBs		41600	41600	pg/L	
26601-64-9	Total Hexa PCBs		33100	33100	pg/L	
28655-71-2	Total Hepta PCBs		14800	14800	pg/L	
55722-26-4	Total Octa PCBs		3170	3160	pg/L	
53742-07-7	Total Nona PCBs		217	215	pg/L	
2051-24-3	Total Deca PCB		30.4	29.2	pg/L	
	Total PCB Congeners		108000	108000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		907	2300	pg/L	39.5	(15%-150%)
13C-3-MoCB		1150	2300	pg/L	50.1	(15%-150%)
13C-4-DiCB		1180	2300	pg/L	51.2	(25%-150%)
13C-15-DiCB		1650	2300	pg/L	71.8	(25%-150%)
13C-19-TrCB		1530	2300	pg/L	66.9	(25%-150%)
13C-37-TrCB		1930	2300	pg/L	84.2	(25%-150%)
13C-54-TeCB		1760	2300	pg/L	76.5	(25%-150%)
13C-77-TeCB		1820	2300	pg/L	79.2	(25%-150%)
13C-81-TeCB		1790	2300	pg/L	78.1	(25%-150%)
13C-104-PeCB		1790	2300	pg/L	78.1	(25%-150%)
13C-105-PeCB		1700	2300	pg/L	74.3	(25%-150%)
13C-114-PeCB		1630	2300	pg/L	70.9	(25%-150%)
13C-118-PeCB		1610	2300	pg/L	70.1	(25%-150%)
13C-123-PeCB		1640	2300	pg/L	71.5	(25%-150%)
13C-126-PeCB		1660	2300	pg/L	72.5	(25%-150%)
13C-155-HxCB		1890	2300	pg/L	82.1	(25%-150%)
13C-156-HxCB	C	3270	4590	pg/L	71.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1570	2300	pg/L	68.5	(25%-150%)
13C-169-HxCB		1880	2300	pg/L	81.9	(25%-150%)
13C-188-HpCB		1460	2300	pg/L	63.7	(25%-150%)
13C-189-HpCB		1340	2300	pg/L	58.5	(25%-150%)
13C-202-OcCB		1470	2300	pg/L	63.9	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725002	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10481		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 17:57	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-4		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 871.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1810	2300	pg/L	78.9 (25%-150%)
13C-206-NoCB			2040	2300	pg/L	88.8 (25%-150%)
13C-208-NoCB			1610	2300	pg/L	70.1 (25%-150%)
13C-209-DeCB			1820	2300	pg/L	79.3 (25%-150%)
13C-28-TrCB			1960	2300	pg/L	85.2 (30%-135%)
13C-111-PeCB			2030	2300	pg/L	88.2 (30%-135%)
13C-178-HpCB			2210	2300	pg/L	96.4 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3394
Lab Sample ID: 2725001
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10536
Batch ID: 19569
Run Date: 09/27/2011 16:51
Data File: c26sep11a_3-3
Prep Batch: 19543
Prep Date: 09-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/02/2011 10:00

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 922.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.7	21.7	pg/L	21.7
2051-61-8	PCB-2	U	21.7	21.7	pg/L	21.7
2051-62-9	PCB-3	U	21.7	21.7	pg/L	21.7
13029-08-8	PCB-4	U	108	108	pg/L	108
16605-91-7	PCB-5	U	21.7	21.7	pg/L	21.7
25569-80-6	PCB-6		119	117	pg/L	21.7
33284-50-3	PCB-7	U	21.7	21.7	pg/L	21.7
34883-43-7	PCB-8		642	640	pg/L	21.7
34883-39-1	PCB-9		28.5	25.1	pg/L	21.7
33146-45-1	PCB-10	U	108	108	pg/L	108
2050-67-1	PCB-11	B	240	237	pg/L	108
2974-92-7	PCB-13/12	C	142	139	pg/L	43.4
34883-41-5	PCB-14	U	21.7	21.7	pg/L	21.7
2050-68-2	PCB-15		1360	1360	pg/L	21.7
38444-78-9	PCB-16		1090	1090	pg/L	108
37680-66-3	PCB-17		1030	1030	pg/L	21.7
37680-65-2	PCB-18/30	C	1620	1620	pg/L	43.4
38444-73-4	PCB-19		140	138	pg/L	21.7
38444-84-7	PCB-20/28	C	5990	5990	pg/L	43.4
55702-46-0	PCB-21/33	C	4350	4350	pg/L	43.4
38444-85-8	PCB-22		2850	2840	pg/L	21.7
55720-44-0	PCB-23	U	21.7	21.7	pg/L	21.7
55702-45-9	PCB-24		65.7	64.8	pg/L	21.7
55712-37-3	PCB-25		354	354	pg/L	21.7
38444-81-4	PCB-26/29	C	848	847	pg/L	43.4
38444-76-7	PCB-27		158	157	pg/L	21.7
16606-02-3	PCB-31		4210	4210	pg/L	21.7
38444-77-8	PCB-32		690	689	pg/L	21.7
37680-68-5	PCB-34	U	21.7	21.7	pg/L	21.7
37680-69-6	PCB-35		109	108	pg/L	21.7
38444-87-0	PCB-36	U	21.7	21.7	pg/L	21.7
38444-90-5	PCB-37		1700	1700	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10536		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 16:51	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-3		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 922.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.7	21.7	pg/L	21.7
38444-88-1	PCB-39	U	21.9	21.7	pg/L	21.7
38444-93-8	PCB-40/71	C	2580	2580	pg/L	43.4
52663-59-9	PCB-41		763	760	pg/L	108
36559-22-5	PCB-42		1380	1380	pg/L	21.7
70362-46-8	PCB-43		275	272	pg/L	21.7
41464-39-5	PCB-44/65/47	CU	65	65	pg/L	65.0
70362-45-7	PCB-45/51	CU	43.4	43.4	pg/L	43.4
41464-47-5	PCB-46		423	421	pg/L	21.7
70362-47-9	PCB-48		1150	1150	pg/L	21.7
41464-40-8	PCB-69/49	C	2330	2330	pg/L	43.4
62796-65-0	PCB-50/53	C	484	483	pg/L	43.4
35693-99-3	PCB-52		3700	3690	pg/L	21.7
15968-05-5	PCB-54	U	21.7	21.7	pg/L	21.7
74338-24-2	PCB-55		26.9	25.8	pg/L	21.7
41464-43-1	PCB-56		297	296	pg/L	21.7
70424-67-8	PCB-57		42.4	41.2	pg/L	21.7
41464-49-7	PCB-58	U	21.7	21.7	pg/L	21.7
74472-33-6	PCB-59/62/75	C	515	514	pg/L	65.0
33025-41-1	PCB-60		132	131	pg/L	21.7
33284-53-6	PCB-61/76/70/74	C	2620	2620	pg/L	86.7
74472-34-7	PCB-63		85.6	84.5	pg/L	21.7
52663-58-8	PCB-64		2090	2090	pg/L	21.7
32598-10-0	PCB-66		1150	1150	pg/L	21.7
73575-53-8	PCB-67		114	113	pg/L	21.7
73575-52-7	PCB-68	U	21.7	21.7	pg/L	21.7
41464-42-0	PCB-72	U	21.7	21.7	pg/L	21.7
74338-23-1	PCB-73	U	21.7	21.7	pg/L	21.7
32598-13-3	PCB-77		27.8	26.6	pg/L	21.7
70362-49-1	PCB-78	U	21.7	21.7	pg/L	21.7
41464-48-6	PCB-79	U	21.7	21.7	pg/L	21.7
33284-52-5	PCB-80	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10536		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 16:51	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-3		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 922.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.7	21.7	pg/L	21.7
52663-62-4	PCB-82		36.4	35	pg/L	21.7
60145-20-2	PCB-83		23.6	22.1	pg/L	21.7
52663-60-2	PCB-84		243	241	pg/L	21.7
65510-45-4	PCB-117/116/85	CU	65	65	pg/L	65.0
55312-69-1	PCB-86/87/97/109/119/125	C	363	362	pg/L	130
55215-17-3	PCB-88/91	C	189	188	pg/L	43.4
73575-57-2	PCB-89	U	21.7	21.7	pg/L	21.7
68194-07-0	PCB-113/90/101	C	449	448	pg/L	65.0
52663-61-3	PCB-92		87.2	85.9	pg/L	21.7
73575-56-1	PCB-93/100	CU	43.4	43.4	pg/L	43.4
73575-55-0	PCB-94	U	21.7	21.7	pg/L	21.7
38379-99-6	PCB-95		818	817	pg/L	21.7
73575-54-9	PCB-96		34.8	33.9	pg/L	21.7
60233-25-2	PCB-102/98	C	119	118	pg/L	43.4
38380-01-7	PCB-99		121	120	pg/L	108
60145-21-3	PCB-103	U	21.7	21.7	pg/L	21.7
56558-16-8	PCB-104	U	21.7	21.7	pg/L	21.7
32598-14-4	PCB-105		133	132	pg/L	108
70424-69-0	PCB-106	U	21.7	21.7	pg/L	21.7
70424-68-9	PCB-107		27.6	26.1	pg/L	21.7
70362-41-3	PCB-108/124	CU	43.4	43.4	pg/L	43.4
38380-03-9	PCB-110/115	CU	43.4	43.4	pg/L	43.4
39635-32-0	PCB-111	U	21.7	21.7	pg/L	21.7
74472-36-9	PCB-112	U	21.7	21.7	pg/L	21.7
74472-37-0	PCB-114	U	21.7	21.7	pg/L	21.7
31508-00-6	PCB-118		290	288	pg/L	21.7
68194-12-7	PCB-120	U	21.7	21.7	pg/L	21.7
56558-18-0	PCB-121	U	21.7	21.7	pg/L	21.7
76842-07-4	PCB-122	U	21.7	21.7	pg/L	21.7
65510-44-3	PCB-123	U	108	108	pg/L	108
57465-28-8	PCB-126	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10536		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 16:51	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-3		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 922.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.7	21.7	pg/L	21.7
38380-07-3	PCB-128/166	C	151	149	pg/L	43.4
55215-18-4	PCB-138/163/129	C	1440	1440	pg/L	65.0
52663-66-8	PCB-130		72.1	69.7	pg/L	21.7
61798-70-7	PCB-131	U	21.7	21.7	pg/L	21.7
38380-05-1	PCB-132		329	326	pg/L	21.7
35694-04-3	PCB-133	U	21.7	21.7	pg/L	21.7
52704-70-8	PCB-134	U	108	108	pg/L	108
52744-13-5	PCB-151/135	C	412	411	pg/L	43.4
38411-22-2	PCB-136		111	109	pg/L	21.7
35694-06-5	PCB-137		34.0	32	pg/L	21.7
56030-56-9	PCB-139/140	CU	43.4	43.4	pg/L	43.4
52712-04-6	PCB-141		297	294	pg/L	21.7
41411-61-4	PCB-142	U	21.7	21.7	pg/L	21.7
68194-15-0	PCB-143	U	21.7	21.7	pg/L	21.7
68194-14-9	PCB-144		47.3	46	pg/L	21.7
74472-40-5	PCB-145	U	21.7	21.7	pg/L	21.7
51908-16-8	PCB-146		269	266	pg/L	21.7
68194-13-8	PCB-147/149	C	1170	1160	pg/L	43.4
74472-41-6	PCB-148	U	21.7	21.7	pg/L	21.7
68194-08-1	PCB-150	U	21.7	21.7	pg/L	21.7
68194-09-2	PCB-152	U	21.7	21.7	pg/L	21.7
35065-27-1	PCB-153/168	C	1200	1190	pg/L	43.4
60145-22-4	PCB-154	U	21.7	21.7	pg/L	21.7
33979-03-2	PCB-155	U	21.7	21.7	pg/L	21.7
38380-08-4	PCB-156/157	C	121	119	pg/L	43.4
74472-42-7	PCB-158		138	137	pg/L	21.7
39635-35-3	PCB-159	U	21.7	21.7	pg/L	21.7
41411-62-5	PCB-160	U	21.7	21.7	pg/L	21.7
74472-43-8	PCB-161	U	21.7	21.7	pg/L	21.7
39635-34-2	PCB-162	U	21.7	21.7	pg/L	21.7
74472-45-0	PCB-164		114	112	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10536		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 16:51	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-3		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 922.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.7	21.7	pg/L	21.7
52663-72-6	PCB-167		62.5	61.3	pg/L	21.7
32774-16-6	PCB-169	U	21.7	21.7	pg/L	21.7
35065-30-6	PCB-170		508	507	pg/L	21.7
52663-71-5	PCB-173/171	C	163	161	pg/L	43.4
52663-74-8	PCB-172		106	105	pg/L	21.7
38411-25-5	PCB-174		671	669	pg/L	21.7
40186-70-7	PCB-175	U	21.7	21.7	pg/L	21.7
52663-65-7	PCB-176		56.9	55.8	pg/L	21.7
52663-70-4	PCB-177		336	334	pg/L	21.7
52663-67-9	PCB-178		123	122	pg/L	21.7
52663-64-6	PCB-179		221	219	pg/L	21.7
35065-29-3	PCB-193/180	C	1320	1320	pg/L	43.4
74472-47-2	PCB-181	U	21.7	21.7	pg/L	21.7
60145-23-5	PCB-182	U	21.7	21.7	pg/L	21.7
52663-69-1	PCB-183/185	C	325	324	pg/L	43.4
74472-48-3	PCB-184	U	21.7	21.7	pg/L	21.7
74472-49-4	PCB-186	U	21.7	21.7	pg/L	21.7
52663-68-0	PCB-187		699	697	pg/L	21.7
74487-85-7	PCB-188	U	21.7	21.7	pg/L	21.7
39635-31-9	PCB-189		26.1	25	pg/L	21.7
41411-64-7	PCB-190		115	114	pg/L	21.7
74472-50-7	PCB-191	U	21.7	21.7	pg/L	21.7
74472-51-8	PCB-192	U	21.7	21.7	pg/L	21.7
35694-08-7	PCB-194		275	274	pg/L	21.7
52663-78-2	PCB-195		120	119	pg/L	21.7
42740-50-1	PCB-196		147	145	pg/L	21.7
33091-17-7	PCB-197/200	C	48.7	47.8	pg/L	43.4
68194-17-2	PCB-198/199	C	345	343	pg/L	43.4
40186-71-8	PCB-201		36.6	35.6	pg/L	21.7
2136-99-4	PCB-202		63.3	62.3	pg/L	21.7
52663-76-0	PCB-203		208	207	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10536		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 16:51	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-3		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 922.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.7	21.7	pg/L	21.7
74472-53-0	PCB-205	U	21.7	21.7	pg/L	21.7
40186-72-9	PCB-206		115	114	pg/L	21.7
52663-79-3	PCB-207	U	21.7	21.7	pg/L	21.7
52663-77-1	PCB-208		26.5	25.5	pg/L	21.7
2051-24-3	PCB-209		28.7	27.4	pg/L	21.7
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		2290	2280	pg/L	
25323-68-6	Total Tri PCBs		25200	25200	pg/L	
26914-33-0	Total Tetra PCBs		20200	20200	pg/L	
25429-29-2	Total Penta PCBs		2930	2910	pg/L	
26601-64-9	Total Hexa PCBs		5960	5930	pg/L	
28655-71-2	Total Hepta PCBs		4670	4660	pg/L	
55722-26-4	Total Octa PCBs		1240	1230	pg/L	
53742-07-7	Total Nona PCBs		142	139	pg/L	
2051-24-3	Total Deca PCB		28.7	27.4	pg/L	
	Total PCB Congeners		62700	62500	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1190	2170	pg/L	54.9	(15%-150%)
13C-3-MoCB		1480	2170	pg/L	68.5	(15%-150%)
13C-4-DiCB		1450	2170	pg/L	66.7	(25%-150%)
13C-15-DiCB		1820	2170	pg/L	84.0	(25%-150%)
13C-19-TrCB		1770	2170	pg/L	81.6	(25%-150%)
13C-37-TrCB		2000	2170	pg/L	92.4	(25%-150%)
13C-54-TeCB		1980	2170	pg/L	91.3	(25%-150%)
13C-77-TeCB		1920	2170	pg/L	88.7	(25%-150%)
13C-81-TeCB		1900	2170	pg/L	87.6	(25%-150%)
13C-104-PeCB		1860	2170	pg/L	85.7	(25%-150%)
13C-105-PeCB		1820	2170	pg/L	83.8	(25%-150%)
13C-114-PeCB		1750	2170	pg/L	80.5	(25%-150%)
13C-118-PeCB		1740	2170	pg/L	80.3	(25%-150%)
13C-123-PeCB		1810	2170	pg/L	83.4	(25%-150%)
13C-126-PeCB		1800	2170	pg/L	83.0	(25%-150%)
13C-155-HxCB		1860	2170	pg/L	85.6	(25%-150%)
13C-156-HxCB	C	3360	4340	pg/L	77.4	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1610	2170	pg/L	74.4	(25%-150%)
13C-169-HxCB		1930	2170	pg/L	88.8	(25%-150%)
13C-188-HpCB		1490	2170	pg/L	68.6	(25%-150%)
13C-189-HpCB		1430	2170	pg/L	65.9	(25%-150%)
13C-202-OcCB		1520	2170	pg/L	70.3	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3394	Client: LANL001	Project: LANL00109
Lab Sample ID: 2725001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/02/2011 10:00	
Client ID: WT_IPLAP-11-10536		Prep Basis: As Received
Batch ID: 19569	Method: EPA Method 1668A	
Run Date: 09/27/2011 16:51	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-3		Dilution: 1
Prep Batch: 19543	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 09-SEP-11	Aliquot: 922.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1850	2170	pg/L	85.4 (25%-150%)
13C-206-NoCB			2070	2170	pg/L	95.4 (25%-150%)
13C-208-NoCB			1700	2170	pg/L	78.5 (25%-150%)
13C-209-DeCB			1820	2170	pg/L	84.0 (25%-150%)
13C-28-TrCB			2040	2170	pg/L	93.9 (30%-135%)
13C-111-PeCB			2110	2170	pg/L	97.5 (30%-135%)
13C-178-HpCB			2240	2170	pg/L	103 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3414
Lab Sample ID: 2733002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11157
Batch ID: 19589
Run Date: 09/27/2011 22:19
Data File: c26sep11a_3-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 957.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	20.9	20.9	pg/L	20.9
2051-61-8	PCB-2	U	20.9	20.9	pg/L	20.9
2051-62-9	PCB-3	U	20.9	20.9	pg/L	20.9
13029-08-8	PCB-4	U	104	104	pg/L	104
16605-91-7	PCB-5	U	20.9	20.9	pg/L	20.9
25569-80-6	PCB-6	U	20.9	20.9	pg/L	20.9
33284-50-3	PCB-7	U	20.9	20.9	pg/L	20.9
34883-43-7	PCB-8	U	20.9	20.9	pg/L	20.9
34883-39-1	PCB-9	U	20.9	20.9	pg/L	20.9
33146-45-1	PCB-10	U	104	104	pg/L	104
2050-67-1	PCB-11	U	104	104	pg/L	104
2974-92-7	PCB-13/12	CU	41.8	41.8	pg/L	41.8
34883-41-5	PCB-14	U	20.9	20.9	pg/L	20.9
2050-68-2	PCB-15	U	20.9	20.9	pg/L	20.9
38444-78-9	PCB-16	U	104	104	pg/L	104
37680-66-3	PCB-17	U	20.9	20.9	pg/L	20.9
37680-65-2	PCB-18/30	CU	41.8	41.8	pg/L	41.8
38444-73-4	PCB-19	U	20.9	20.9	pg/L	20.9
38444-84-7	PCB-20/28	CU	41.8	41.8	pg/L	41.8
55702-46-0	PCB-21/33	CU	41.8	41.8	pg/L	41.8
38444-85-8	PCB-22	U	20.9	20.9	pg/L	20.9
55720-44-0	PCB-23	U	20.9	20.9	pg/L	20.9
55702-45-9	PCB-24	U	20.9	20.9	pg/L	20.9
55712-37-3	PCB-25	U	20.9	20.9	pg/L	20.9
38444-81-4	PCB-26/29	CU	41.8	41.8	pg/L	41.8
38444-76-7	PCB-27	U	20.9	20.9	pg/L	20.9
16606-02-3	PCB-31	U	20.9	20.9	pg/L	20.9
38444-77-8	PCB-32	U	20.9	20.9	pg/L	20.9
37680-68-5	PCB-34	U	20.9	20.9	pg/L	20.9
37680-69-6	PCB-35	U	20.9	20.9	pg/L	20.9
38444-87-0	PCB-36	U	20.9	20.9	pg/L	20.9
38444-90-5	PCB-37	U	20.9	20.9	pg/L	20.9

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3414
Lab Sample ID: 2733002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11157
Batch ID: 19589
Run Date: 09/27/2011 22:19
Data File: c26sep11a_3-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 957.6 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	20.9	20.9	pg/L	20.9
38444-88-1	PCB-39	U	20.9	20.9	pg/L	20.9
38444-93-8	PCB-40/71	CU	41.8	41.8	pg/L	41.8
52663-59-9	PCB-41	U	104	104	pg/L	104
36559-22-5	PCB-42	U	20.9	20.9	pg/L	20.9
70362-46-8	PCB-43	U	20.9	20.9	pg/L	20.9
41464-39-5	PCB-44/65/47	CU	62.7	62.7	pg/L	62.7
70362-45-7	PCB-45/51	CU	41.8	41.8	pg/L	41.8
41464-47-5	PCB-46	U	20.9	20.9	pg/L	20.9
70362-47-9	PCB-48	U	20.9	20.9	pg/L	20.9
41464-40-8	PCB-69/49	CU	41.8	41.8	pg/L	41.8
62796-65-0	PCB-50/53	CU	41.8	41.8	pg/L	41.8
35693-99-3	PCB-52	U	20.9	20.9	pg/L	20.9
15968-05-5	PCB-54	U	20.9	20.9	pg/L	20.9
74338-24-2	PCB-55	U	20.9	20.9	pg/L	20.9
41464-43-1	PCB-56		27.7	26.3	pg/L	20.9
70424-67-8	PCB-57	U	20.9	20.9	pg/L	20.9
41464-49-7	PCB-58	U	20.9	20.9	pg/L	20.9
74472-33-6	PCB-59/62/75	CU	62.7	62.7	pg/L	62.7
33025-41-1	PCB-60	U	20.9	20.9	pg/L	20.9
33284-53-6	PCB-61/76/70/74	C	209	208	pg/L	83.5
74472-34-7	PCB-63	U	20.9	20.9	pg/L	20.9
52663-58-8	PCB-64	U	20.9	20.9	pg/L	20.9
32598-10-0	PCB-66		57.4	56.3	pg/L	20.9
73575-53-8	PCB-67	U	20.9	20.9	pg/L	20.9
73575-52-7	PCB-68	U	20.9	20.9	pg/L	20.9
41464-42-0	PCB-72	U	20.9	20.9	pg/L	20.9
74338-23-1	PCB-73	U	20.9	20.9	pg/L	20.9
32598-13-3	PCB-77	U	20.9	20.9	pg/L	20.9
70362-49-1	PCB-78	U	20.9	20.9	pg/L	20.9
41464-48-6	PCB-79	U	20.9	20.9	pg/L	20.9
33284-52-5	PCB-80	U	20.9	20.9	pg/L	20.9

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414
Lab Sample ID: 2733002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11157
Batch ID: 19589
Run Date: 09/27/2011 22:19
Data File: c26sep11a_3-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 957.6 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	20.9	20.9	pg/L	20.9
52663-62-4	PCB-82		45.3	43.9	pg/L	20.9
60145-20-2	PCB-83		24.8	23.3	pg/L	20.9
52663-60-2	PCB-84		103	101	pg/L	20.9
65510-45-4	PCB-117/116/85	C	77.0	76	pg/L	62.7
55312-69-1	PCB-86/87/97/109/119/125	C	311	310	pg/L	125
55215-17-3	PCB-88/91	C	47.4	46.2	pg/L	41.8
73575-57-2	PCB-89	U	20.9	20.9	pg/L	20.9
68194-07-0	PCB-113/90/101	C	462	460	pg/L	62.7
52663-61-3	PCB-92		79.4	78.1	pg/L	20.9
73575-56-1	PCB-93/100	CU	41.8	41.8	pg/L	41.8
73575-55-0	PCB-94	U	20.9	20.9	pg/L	20.9
38379-99-6	PCB-95		294	293	pg/L	20.9
73575-54-9	PCB-96	U	20.9	20.9	pg/L	20.9
60233-25-2	PCB-102/98	CU	41.8	41.8	pg/L	41.8
38380-01-7	PCB-99		163	162	pg/L	104
60145-21-3	PCB-103	U	20.9	20.9	pg/L	20.9
56558-16-8	PCB-104	U	20.9	20.9	pg/L	20.9
32598-14-4	PCB-105		194	192	pg/L	104
70424-69-0	PCB-106	U	20.9	20.9	pg/L	20.9
70424-68-9	PCB-107		32.6	31.1	pg/L	20.9
70362-41-3	PCB-108/124	CU	41.8	41.8	pg/L	41.8
38380-03-9	PCB-110/115	C	600	593	pg/L	41.8
39635-32-0	PCB-111	U	20.9	20.9	pg/L	20.9
74472-36-9	PCB-112	U	20.9	20.9	pg/L	20.9
74472-37-0	PCB-114	U	20.9	20.9	pg/L	20.9
31508-00-6	PCB-118		445	444	pg/L	20.9
68194-12-7	PCB-120	U	20.9	20.9	pg/L	20.9
56558-18-0	PCB-121	U	20.9	20.9	pg/L	20.9
76842-07-4	PCB-122	U	20.9	20.9	pg/L	20.9
65510-44-3	PCB-123	U	104	104	pg/L	104
57465-28-8	PCB-126	U	20.9	20.9	pg/L	20.9

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3414
Lab Sample ID: 2733002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11157
Batch ID: 19589
Run Date: 09/27/2011 22:19
Data File: c26sep11a_3-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 957.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	20.9	20.9	pg/L	20.9
38380-07-3	PCB-128/166	C	113	111	pg/L	41.8
55215-18-4	PCB-138/163/129	C	684	682	pg/L	62.7
52663-66-8	PCB-130		40.8	38.4	pg/L	20.9
61798-70-7	PCB-131	U	20.9	20.9	pg/L	20.9
38380-05-1	PCB-132		208	206	pg/L	20.9
35694-04-3	PCB-133	U	20.9	20.9	pg/L	20.9
52704-70-8	PCB-134	U	104	104	pg/L	104
52744-13-5	PCB-151/135	C	168	166	pg/L	41.8
38411-22-2	PCB-136		61.5	60.5	pg/L	20.9
35694-06-5	PCB-137	U	20.9	20.9	pg/L	20.9
56030-56-9	PCB-139/140	CU	41.8	41.8	pg/L	41.8
52712-04-6	PCB-141		112	109	pg/L	20.9
41411-61-4	PCB-142	U	20.9	20.9	pg/L	20.9
68194-15-0	PCB-143	U	20.9	20.9	pg/L	20.9
68194-14-9	PCB-144	U	20.9	20.9	pg/L	20.9
74472-40-5	PCB-145	U	20.9	20.9	pg/L	20.9
51908-16-8	PCB-146		98.0	95.6	pg/L	20.9
68194-13-8	PCB-147/149	C	494	488	pg/L	41.8
74472-41-6	PCB-148	U	20.9	20.9	pg/L	20.9
68194-08-1	PCB-150	U	20.9	20.9	pg/L	20.9
68194-09-2	PCB-152	U	20.9	20.9	pg/L	20.9
35065-27-1	PCB-153/168	C	460	459	pg/L	41.8
60145-22-4	PCB-154	U	20.9	20.9	pg/L	20.9
33979-03-2	PCB-155	U	20.9	20.9	pg/L	20.9
38380-08-4	PCB-156/157	C	83.4	81.9	pg/L	41.8
74472-42-7	PCB-158		71.8	70	pg/L	20.9
39635-35-3	PCB-159	U	20.9	20.9	pg/L	20.9
41411-62-5	PCB-160	U	20.9	20.9	pg/L	20.9
74472-43-8	PCB-161	U	20.9	20.9	pg/L	20.9
39635-34-2	PCB-162	U	20.9	20.9	pg/L	20.9
74472-45-0	PCB-164		53.0	50.9	pg/L	20.9

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414
Lab Sample ID: 2733002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11157
Batch ID: 19589
Run Date: 09/27/2011 22:19
Data File: c26sep11a_3-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
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Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 957.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	20.9	20.9	pg/L	20.9
52663-72-6	PCB-167		28.2	27	pg/L	20.9
32774-16-6	PCB-169	U	20.9	20.9	pg/L	20.9
35065-30-6	PCB-170		102	100	pg/L	20.9
52663-71-5	PCB-173/171	CU	41.8	41.8	pg/L	41.8
52663-74-8	PCB-172	U	20.9	20.9	pg/L	20.9
38411-25-5	PCB-174		125	123	pg/L	20.9
40186-70-7	PCB-175	U	20.9	20.9	pg/L	20.9
52663-65-7	PCB-176	U	20.9	20.9	pg/L	20.9
52663-70-4	PCB-177		60.6	59.1	pg/L	20.9
52663-67-9	PCB-178	U	20.9	20.9	pg/L	20.9
52663-64-6	PCB-179		40.5	39.4	pg/L	20.9
35065-29-3	PCB-193/180	C	230	229	pg/L	41.8
74472-47-2	PCB-181	U	20.9	20.9	pg/L	20.9
60145-23-5	PCB-182	U	20.9	20.9	pg/L	20.9
52663-69-1	PCB-183/185	C	59.3	58	pg/L	41.8
74472-48-3	PCB-184	U	20.9	20.9	pg/L	20.9
74472-49-4	PCB-186	U	20.9	20.9	pg/L	20.9
52663-68-0	PCB-187		119	117	pg/L	20.9
74487-85-7	PCB-188	U	20.9	20.9	pg/L	20.9
39635-31-9	PCB-189	U	20.9	20.9	pg/L	20.9
41411-64-7	PCB-190	U	20.9	20.9	pg/L	20.9
74472-50-7	PCB-191	U	20.9	20.9	pg/L	20.9
74472-51-8	PCB-192	U	20.9	20.9	pg/L	20.9
35694-08-7	PCB-194		45.6	44.7	pg/L	20.9
52663-78-2	PCB-195	U	20.9	20.9	pg/L	20.9
42740-50-1	PCB-196	U	21.8	20.9	pg/L	20.9
33091-17-7	PCB-197/200	CU	41.8	41.8	pg/L	41.8
68194-17-2	PCB-198/199	C	54.3	53	pg/L	41.8
40186-71-8	PCB-201	U	20.9	20.9	pg/L	20.9
2136-99-4	PCB-202	U	20.9	20.9	pg/L	20.9
52663-76-0	PCB-203		35.4	34.2	pg/L	20.9

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414
Lab Sample ID: 2733002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11157
Batch ID: 19589
Run Date: 09/27/2011 22:19
Data File: c26sep11a_3-8
Prep Batch: 19571
Prep Date: 14-SEP-11

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Aliquot: 957.6 mL

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Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	20.9	20.9	pg/L	20.9
74472-53-0	PCB-205	U	20.9	20.9	pg/L	20.9
40186-72-9	PCB-206	U	20.9	20.9	pg/L	20.9
52663-79-3	PCB-207	U	20.9	20.9	pg/L	20.9
52663-77-1	PCB-208	U	20.9	20.9	pg/L	20.9
2051-24-3	PCB-209		43.9	42.7	pg/L	20.9
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		294	290	pg/L	
25429-29-2	Total Penta PCBs		2880	2850	pg/L	
26601-64-9	Total Hexa PCBs		2680	2650	pg/L	
28655-71-2	Total Hepta PCBs		735	726	pg/L	
55722-26-4	Total Octa PCBs		157	132	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB		43.9	42.7	pg/L	
	Total PCB Congeners		6780	6690	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		968	2090	pg/L	46.3	(15%-150%)
13C-3-MoCB		1190	2090	pg/L	57.2	(15%-150%)
13C-4-DiCB		1090	2090	pg/L	52.0	(25%-150%)
13C-15-DiCB		2300	2090	pg/L	110	(25%-150%)
13C-19-TrCB		1800	2090	pg/L	86.3	(25%-150%)
13C-37-TrCB		1890	2090	pg/L	90.7	(25%-150%)
13C-54-TeCB		1210	2090	pg/L	57.8	(25%-150%)
13C-77-TeCB		1840	2090	pg/L	88.1	(25%-150%)
13C-81-TeCB		1810	2090	pg/L	86.8	(25%-150%)
13C-104-PeCB		1590	2090	pg/L	75.9	(25%-150%)
13C-105-PeCB		1580	2090	pg/L	75.8	(25%-150%)
13C-114-PeCB		1540	2090	pg/L	73.7	(25%-150%)
13C-118-PeCB		1570	2090	pg/L	75.0	(25%-150%)
13C-123-PeCB		1640	2090	pg/L	78.8	(25%-150%)
13C-126-PeCB		1500	2090	pg/L	71.7	(25%-150%)
13C-155-HxCB		1880	2090	pg/L	90.0	(25%-150%)
13C-156-HxCB	C	2990	4180	pg/L	71.5	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1460	2090	pg/L	69.7	(25%-150%)
13C-169-HxCB		1620	2090	pg/L	77.8	(25%-150%)
13C-188-HpCB		1540	2090	pg/L	73.9	(25%-150%)
13C-189-HpCB		1290	2090	pg/L	61.6	(25%-150%)
13C-202-OcCB		1500	2090	pg/L	71.6	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414	Client: LANL001	Project: LANL00109
Lab Sample ID: 2733002	Date Collected: 08/21/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPPAJ-11-11157		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/27/2011 22:19	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-8		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 957.6 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1700	2090	pg/L	81.6 (25%-150%)
13C-206-NoCB			1860	2090	pg/L	88.9 (25%-150%)
13C-208-NoCB			1570	2090	pg/L	75.0 (25%-150%)
13C-209-DeCB			1680	2090	pg/L	80.3 (25%-150%)
13C-28-TrCB			1310	2090	pg/L	62.9 (30%-135%)
13C-111-PeCB			1730	2090	pg/L	83.0 (30%-135%)
13C-178-HpCB			1920	2090	pg/L	92.1 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3414
Lab Sample ID: 2733001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11182
Batch ID: 19589
Run Date: 09/21/2011 16:45
Data File: c21sep11a-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/22/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 931.9 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.5	21.5	pg/L	21.5
2051-61-8	PCB-2	U	21.5	21.5	pg/L	21.5
2051-62-9	PCB-3	U	21.5	21.5	pg/L	21.5
13029-08-8	PCB-4	U	107	107	pg/L	107
16605-91-7	PCB-5	U	21.5	21.5	pg/L	21.5
25569-80-6	PCB-6	U	21.5	21.5	pg/L	21.5
33284-50-3	PCB-7	U	21.5	21.5	pg/L	21.5
34883-43-7	PCB-8	U	21.5	21.5	pg/L	21.5
34883-39-1	PCB-9	U	21.5	21.5	pg/L	21.5
33146-45-1	PCB-10	U	107	107	pg/L	107
2050-67-1	PCB-11	U	107	107	pg/L	107
2974-92-7	PCB-13/12	CU	42.9	42.9	pg/L	42.9
34883-41-5	PCB-14	U	21.5	21.5	pg/L	21.5
2050-68-2	PCB-15	U	21.5	21.5	pg/L	21.5
38444-78-9	PCB-16	U	107	107	pg/L	107
37680-66-3	PCB-17	U	21.5	21.5	pg/L	21.5
37680-65-2	PCB-18/30	CU	42.9	42.9	pg/L	42.9
38444-73-4	PCB-19	U	21.5	21.5	pg/L	21.5
38444-84-7	PCB-20/28	CU	42.9	42.9	pg/L	42.9
55702-46-0	PCB-21/33	CU	42.9	42.9	pg/L	42.9
38444-85-8	PCB-22	U	21.5	21.5	pg/L	21.5
55720-44-0	PCB-23	U	21.5	21.5	pg/L	21.5
55702-45-9	PCB-24	U	21.5	21.5	pg/L	21.5
55712-37-3	PCB-25	U	21.5	21.5	pg/L	21.5
38444-81-4	PCB-26/29	CU	42.9	42.9	pg/L	42.9
38444-76-7	PCB-27	U	21.5	21.5	pg/L	21.5
16606-02-3	PCB-31	U	21.5	21.5	pg/L	21.5
38444-77-8	PCB-32	U	21.5	21.5	pg/L	21.5
37680-68-5	PCB-34	U	21.5	21.5	pg/L	21.5
37680-69-6	PCB-35	U	21.5	21.5	pg/L	21.5
38444-87-0	PCB-36	U	21.5	21.5	pg/L	21.5
38444-90-5	PCB-37	U	21.5	21.5	pg/L	21.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3414
Lab Sample ID: 2733001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11182
Batch ID: 19589
Run Date: 09/21/2011 16:45
Data File: c21sep11a-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/22/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 931.9 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.5	21.5	pg/L	21.5
38444-88-1	PCB-39	U	21.5	21.5	pg/L	21.5
38444-93-8	PCB-40/71	CU	42.9	42.9	pg/L	42.9
52663-59-9	PCB-41	U	107	107	pg/L	107
36559-22-5	PCB-42	U	21.5	21.5	pg/L	21.5
70362-46-8	PCB-43	U	21.5	21.5	pg/L	21.5
41464-39-5	PCB-44/65/47	CU	64.4	64.4	pg/L	64.4
70362-45-7	PCB-45/51	CU	42.9	42.9	pg/L	42.9
41464-47-5	PCB-46	U	21.5	21.5	pg/L	21.5
70362-47-9	PCB-48	U	21.5	21.5	pg/L	21.5
41464-40-8	PCB-69/49	CU	42.9	42.9	pg/L	42.9
62796-65-0	PCB-50/53	CU	42.9	42.9	pg/L	42.9
35693-99-3	PCB-52	B	23.9	22	pg/L	21.5
15968-05-5	PCB-54	U	21.5	21.5	pg/L	21.5
74338-24-2	PCB-55	U	21.5	21.5	pg/L	21.5
41464-43-1	PCB-56	U	21.5	21.5	pg/L	21.5
70424-67-8	PCB-57	U	21.5	21.5	pg/L	21.5
41464-49-7	PCB-58	U	21.5	21.5	pg/L	21.5
74472-33-6	PCB-59/62/75	CU	64.4	64.4	pg/L	64.4
33025-41-1	PCB-60	U	21.5	21.5	pg/L	21.5
33284-53-6	PCB-61/76/70/74	CU	85.8	85.8	pg/L	85.8
74472-34-7	PCB-63	U	21.5	21.5	pg/L	21.5
52663-58-8	PCB-64	U	21.5	21.5	pg/L	21.5
32598-10-0	PCB-66	U	21.5	21.5	pg/L	21.5
73575-53-8	PCB-67	U	21.5	21.5	pg/L	21.5
73575-52-7	PCB-68	U	21.5	21.5	pg/L	21.5
41464-42-0	PCB-72	U	21.5	21.5	pg/L	21.5
74338-23-1	PCB-73	U	21.5	21.5	pg/L	21.5
32598-13-3	PCB-77	U	21.5	21.5	pg/L	21.5
70362-49-1	PCB-78	U	21.5	21.5	pg/L	21.5
41464-48-6	PCB-79	U	21.5	21.5	pg/L	21.5
33284-52-5	PCB-80	U	21.5	21.5	pg/L	21.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414
Lab Sample ID: 2733001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11182
Batch ID: 19589
Run Date: 09/21/2011 16:45
Data File: c21sep11a-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/22/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 931.9 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.5	21.5	pg/L	21.5
52663-62-4	PCB-82	U	21.5	21.5	pg/L	21.5
60145-20-2	PCB-83	U	21.5	21.5	pg/L	21.5
52663-60-2	PCB-84	U	21.5	21.5	pg/L	21.5
65510-45-4	PCB-117/116/85	CU	64.4	64.4	pg/L	64.4
55312-69-1	PCB-86/87/97/109/119/125	CU	129	129	pg/L	129
55215-17-3	PCB-88/91	CU	42.9	42.9	pg/L	42.9
73575-57-2	PCB-89	U	21.5	21.5	pg/L	21.5
68194-07-0	PCB-113/90/101	CU	64.4	64.4	pg/L	64.4
52663-61-3	PCB-92	U	21.5	21.5	pg/L	21.5
73575-56-1	PCB-93/100	CU	42.9	42.9	pg/L	42.9
73575-55-0	PCB-94	U	21.5	21.5	pg/L	21.5
38379-99-6	PCB-95	U	21.9	21.5	pg/L	21.5
73575-54-9	PCB-96	U	21.5	21.5	pg/L	21.5
60233-25-2	PCB-102/98	CU	42.9	42.9	pg/L	42.9
38380-01-7	PCB-99	U	107	107	pg/L	107
60145-21-3	PCB-103	U	21.5	21.5	pg/L	21.5
56558-16-8	PCB-104	U	21.5	21.5	pg/L	21.5
32598-14-4	PCB-105	U	107	107	pg/L	107
70424-69-0	PCB-106	U	21.5	21.5	pg/L	21.5
70424-68-9	PCB-107	U	21.5	21.5	pg/L	21.5
70362-41-3	PCB-108/124	CU	42.9	42.9	pg/L	42.9
38380-03-9	PCB-110/115	CU	42.9	42.9	pg/L	42.9
39635-32-0	PCB-111	U	21.5	21.5	pg/L	21.5
74472-36-9	PCB-112	U	21.5	21.5	pg/L	21.5
74472-37-0	PCB-114	U	21.5	21.5	pg/L	21.5
31508-00-6	PCB-118	U	21.5	21.5	pg/L	21.5
68194-12-7	PCB-120	U	21.5	21.5	pg/L	21.5
56558-18-0	PCB-121	U	21.5	21.5	pg/L	21.5
76842-07-4	PCB-122	U	21.5	21.5	pg/L	21.5
65510-44-3	PCB-123	U	107	107	pg/L	107
57465-28-8	PCB-126	U	21.5	21.5	pg/L	21.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414	Client: LANL001	Project: LANL00109
Lab Sample ID: 2733001	Date Collected: 08/22/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPPAJ-11-11182		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/21/2011 16:45	Analyst: MJC	Instrument: HRP791
Data File: c21sep11a-8		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 931.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.5	21.5	pg/L	21.5
38380-07-3	PCB-128/166	CU	42.9	42.9	pg/L	42.9
55215-18-4	PCB-138/163/129	CU	64.4	64.4	pg/L	64.4
52663-66-8	PCB-130	U	21.5	21.5	pg/L	21.5
61798-70-7	PCB-131	U	21.5	21.5	pg/L	21.5
38380-05-1	PCB-132	U	21.5	21.5	pg/L	21.5
35694-04-3	PCB-133	U	21.5	21.5	pg/L	21.5
52704-70-8	PCB-134	U	107	107	pg/L	107
52744-13-5	PCB-151/135	CU	42.9	42.9	pg/L	42.9
38411-22-2	PCB-136	U	21.5	21.5	pg/L	21.5
35694-06-5	PCB-137	U	21.5	21.5	pg/L	21.5
56030-56-9	PCB-139/140	CU	42.9	42.9	pg/L	42.9
52712-04-6	PCB-141	U	21.5	21.5	pg/L	21.5
41411-61-4	PCB-142	U	21.5	21.5	pg/L	21.5
68194-15-0	PCB-143	U	21.5	21.5	pg/L	21.5
68194-14-9	PCB-144	U	21.5	21.5	pg/L	21.5
74472-40-5	PCB-145	U	21.5	21.5	pg/L	21.5
51908-16-8	PCB-146	U	21.5	21.5	pg/L	21.5
68194-13-8	PCB-147/149	CU	42.9	42.9	pg/L	42.9
74472-41-6	PCB-148	U	21.5	21.5	pg/L	21.5
68194-08-1	PCB-150	U	21.5	21.5	pg/L	21.5
68194-09-2	PCB-152	U	21.5	21.5	pg/L	21.5
35065-27-1	PCB-153/168	CU	42.9	42.9	pg/L	42.9
60145-22-4	PCB-154	U	21.5	21.5	pg/L	21.5
33979-03-2	PCB-155	U	21.5	21.5	pg/L	21.5
38380-08-4	PCB-156/157	CU	42.9	42.9	pg/L	42.9
74472-42-7	PCB-158	U	21.5	21.5	pg/L	21.5
39635-35-3	PCB-159	U	21.5	21.5	pg/L	21.5
41411-62-5	PCB-160	U	21.5	21.5	pg/L	21.5
74472-43-8	PCB-161	U	21.5	21.5	pg/L	21.5
39635-34-2	PCB-162	U	21.5	21.5	pg/L	21.5
74472-45-0	PCB-164	U	21.5	21.5	pg/L	21.5

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414
 Lab Sample ID: 2733001
 Client Sample: 1668A Water
 Client ID: WT_IPPAJ-11-11182
 Batch ID: 19589
 Run Date: 09/21/2011 16:45
 Data File: c21sep11a-8
 Prep Batch: 19571
 Prep Date: 14-SEP-11

Client: LANL001
 Date Collected: 08/22/2011 12:00
 Date Received: 09/03/2011 09:58
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 931.9 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.5	21.5	pg/L	21.5
52663-72-6	PCB-167	U	21.5	21.5	pg/L	21.5
32774-16-6	PCB-169	U	21.5	21.5	pg/L	21.5
35065-30-6	PCB-170	U	21.5	21.5	pg/L	21.5
52663-71-5	PCB-173/171	CU	42.9	42.9	pg/L	42.9
52663-74-8	PCB-172	U	21.5	21.5	pg/L	21.5
38411-25-5	PCB-174	U	21.5	21.5	pg/L	21.5
40186-70-7	PCB-175	U	21.5	21.5	pg/L	21.5
52663-65-7	PCB-176	U	21.5	21.5	pg/L	21.5
52663-70-4	PCB-177	U	21.5	21.5	pg/L	21.5
52663-67-9	PCB-178	U	21.5	21.5	pg/L	21.5
52663-64-6	PCB-179	U	21.5	21.5	pg/L	21.5
35065-29-3	PCB-193/180	CU	42.9	42.9	pg/L	42.9
74472-47-2	PCB-181	U	21.5	21.5	pg/L	21.5
60145-23-5	PCB-182	U	21.5	21.5	pg/L	21.5
52663-69-1	PCB-183/185	CU	42.9	42.9	pg/L	42.9
74472-48-3	PCB-184	U	21.5	21.5	pg/L	21.5
74472-49-4	PCB-186	U	21.5	21.5	pg/L	21.5
52663-68-0	PCB-187	U	21.5	21.5	pg/L	21.5
74487-85-7	PCB-188	U	21.5	21.5	pg/L	21.5
39635-31-9	PCB-189	U	21.5	21.5	pg/L	21.5
41411-64-7	PCB-190	U	21.5	21.5	pg/L	21.5
74472-50-7	PCB-191	U	21.5	21.5	pg/L	21.5
74472-51-8	PCB-192	U	21.5	21.5	pg/L	21.5
35694-08-7	PCB-194	U	21.5	21.5	pg/L	21.5
52663-78-2	PCB-195	U	21.5	21.5	pg/L	21.5
42740-50-1	PCB-196	U	21.5	21.5	pg/L	21.5
33091-17-7	PCB-197/200	CU	42.9	42.9	pg/L	42.9
68194-17-2	PCB-198/199	CU	42.9	42.9	pg/L	42.9
40186-71-8	PCB-201	U	21.5	21.5	pg/L	21.5
2136-99-4	PCB-202	U	21.5	21.5	pg/L	21.5
52663-76-0	PCB-203	U	21.5	21.5	pg/L	21.5

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3414
Lab Sample ID: 2733001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11182
Batch ID: 19589
Run Date: 09/21/2011 16:45
Data File: c21sep11a-8
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/22/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 931.9 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.5	21.5	pg/L	21.5
74472-53-0	PCB-205	U	21.5	21.5	pg/L	21.5
40186-72-9	PCB-206	U	21.5	21.5	pg/L	21.5
52663-79-3	PCB-207	U	21.5	21.5	pg/L	21.5
52663-77-1	PCB-208	U	21.5	21.5	pg/L	21.5
2051-24-3	PCB-209	U	21.5	21.5	pg/L	21.5
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs	U	0	0	pg/L	
25429-29-2	Total Penta PCBs	U	0	0	pg/L	
26601-64-9	Total Hexa PCBs	U	0	0	pg/L	
28655-71-2	Total Hepta PCBs	U	0	0	pg/L	
55722-26-4	Total Octa PCBs	U	0	0	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners	U	0	0	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1030	2150	pg/L	47.9	(15%-150%)
13C-3-MoCB		1230	2150	pg/L	57.2	(15%-150%)
13C-4-DiCB		1240	2150	pg/L	57.7	(25%-150%)
13C-15-DiCB		1640	2150	pg/L	76.2	(25%-150%)
13C-19-TrCB		1580	2150	pg/L	73.4	(25%-150%)
13C-37-TrCB		1830	2150	pg/L	85.4	(25%-150%)
13C-54-TeCB		1730	2150	pg/L	80.6	(25%-150%)
13C-77-TeCB		1760	2150	pg/L	81.9	(25%-150%)
13C-81-TeCB		1750	2150	pg/L	81.3	(25%-150%)
13C-104-PeCB		1960	2150	pg/L	91.3	(25%-150%)
13C-105-PeCB		1630	2150	pg/L	76.1	(25%-150%)
13C-114-PeCB		1580	2150	pg/L	73.6	(25%-150%)
13C-118-PeCB		1580	2150	pg/L	73.8	(25%-150%)
13C-123-PeCB		1660	2150	pg/L	77.5	(25%-150%)
13C-126-PeCB		1650	2150	pg/L	76.7	(25%-150%)
13C-155-HxCB		2090	2150	pg/L	97.5	(25%-150%)
13C-156-HxCB	C	3170	4290	pg/L	73.8	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1510	2150	pg/L	70.5	(25%-150%)
13C-169-HxCB		1850	2150	pg/L	86.1	(25%-150%)
13C-188-HpCB		1660	2150	pg/L	77.2	(25%-150%)
13C-189-HpCB		1380	2150	pg/L	64.3	(25%-150%)
13C-202-OcCB		1650	2150	pg/L	76.9	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3414	Client: LANL001	Project: LANL00109
Lab Sample ID: 2733001	Date Collected: 08/22/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPPAJ-11-11182		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/21/2011 16:45	Analyst: MJC	Instrument: HRP791
Data File: c21sep11a-8		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 931.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1880	2150	pg/L	87.8 (25%-150%)
13C-206-NoCB			2170	2150	pg/L	101 (25%-150%)
13C-208-NoCB			1760	2150	pg/L	82.0 (25%-150%)
13C-209-DeCB			2110	2150	pg/L	98.1 (25%-150%)
13C-28-TrCB			1670	2150	pg/L	77.8 (30%-135%)
13C-111-PeCB			1890	2150	pg/L	88.1 (30%-135%)
13C-178-HpCB			2280	2150	pg/L	106 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3420
Lab Sample ID: 2739001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10691
Batch ID: 19589
Run Date: 10/04/2011 13:57
Data File: c04oct11a-4
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 848.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	118	118	pg/L	118
2051-61-8	PCB-2	U	118	118	pg/L	118
2051-62-9	PCB-3	U	118	118	pg/L	118
13029-08-8	PCB-4	U	589	589	pg/L	589
16605-91-7	PCB-5	U	118	118	pg/L	118
25569-80-6	PCB-6	U	118	118	pg/L	118
33284-50-3	PCB-7	U	118	118	pg/L	118
34883-43-7	PCB-8	U	118	118	pg/L	118
34883-39-1	PCB-9	U	118	118	pg/L	118
33146-45-1	PCB-10	U	589	589	pg/L	589
2050-67-1	PCB-11	U	589	589	pg/L	589
2974-92-7	PCB-13/12	CU	236	236	pg/L	236
34883-41-5	PCB-14	U	118	118	pg/L	118
2050-68-2	PCB-15		204	202	pg/L	118
38444-78-9	PCB-16	U	589	589	pg/L	589
37680-66-3	PCB-17		163	162	pg/L	118
37680-65-2	PCB-18/30	C	264	263	pg/L	236
38444-73-4	PCB-19	U	118	118	pg/L	118
38444-84-7	PCB-20/28	C	1030	1030	pg/L	236
55702-46-0	PCB-21/33	CU	236	236	pg/L	236
38444-85-8	PCB-22		310	309	pg/L	118
55720-44-0	PCB-23	U	118	118	pg/L	118
55702-45-9	PCB-24	U	118	118	pg/L	118
55712-37-3	PCB-25	U	118	118	pg/L	118
38444-81-4	PCB-26/29	CU	236	236	pg/L	236
38444-76-7	PCB-27	U	118	118	pg/L	118
16606-02-3	PCB-31		561	560	pg/L	118
38444-77-8	PCB-32		131	130	pg/L	118
37680-68-5	PCB-34	U	118	118	pg/L	118
37680-69-6	PCB-35	U	118	118	pg/L	118
38444-87-0	PCB-36	U	118	118	pg/L	118
38444-90-5	PCB-37		532	531	pg/L	118

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3420
Lab Sample ID: 2739001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10691
Batch ID: 19589
Run Date: 10/04/2011 13:57
Data File: c04oct11a-4
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 848.5 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	118	118	pg/L	118
38444-88-1	PCB-39	U	118	118	pg/L	118
38444-93-8	PCB-40/71	C	1610	1610	pg/L	236
52663-59-9	PCB-41	U	589	589	pg/L	589
36559-22-5	PCB-42		943	941	pg/L	118
70362-46-8	PCB-43	U	118	118	pg/L	118
41464-39-5	PCB-44/65/47	C	6010	6010	pg/L	354
70362-45-7	PCB-45/51	C	396	395	pg/L	236
41464-47-5	PCB-46		163	162	pg/L	118
70362-47-9	PCB-48		313	311	pg/L	118
41464-40-8	PCB-69/49	C	3350	3350	pg/L	236
62796-65-0	PCB-50/53	C	356	355	pg/L	236
35693-99-3	PCB-52		12400	12300	pg/L	118
15968-05-5	PCB-54	U	118	118	pg/L	118
74338-24-2	PCB-55	U	118	118	pg/L	118
41464-43-1	PCB-56		2350	2350	pg/L	118
70424-67-8	PCB-57	U	118	118	pg/L	118
41464-49-7	PCB-58	U	118	118	pg/L	118
74472-33-6	PCB-59/62/75	CU	354	354	pg/L	354
33025-41-1	PCB-60	U	118	118	pg/L	118
33284-53-6	PCB-61/76/70/74	C	9750	9750	pg/L	471
74472-34-7	PCB-63		136	135	pg/L	118
52663-58-8	PCB-64		1740	1740	pg/L	118
32598-10-0	PCB-66		5290	5290	pg/L	118
73575-53-8	PCB-67	U	118	118	pg/L	118
73575-52-7	PCB-68	U	118	118	pg/L	118
41464-42-0	PCB-72		177	176	pg/L	118
74338-23-1	PCB-73	U	118	118	pg/L	118
32598-13-3	PCB-77		1360	1360	pg/L	118
70362-49-1	PCB-78	U	118	118	pg/L	118
41464-48-6	PCB-79		363	362	pg/L	118
33284-52-5	PCB-80	U	118	118	pg/L	118

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3420
Lab Sample ID: 2739001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10691
Batch ID: 19589
Run Date: 10/04/2011 13:57
Data File: c04oct11a-4
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 848.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	118	118	pg/L	118
52663-62-4	PCB-82		5150	5150	pg/L	118
60145-20-2	PCB-83		3200	3200	pg/L	118
52663-60-2	PCB-84	U	118	118	pg/L	118
65510-45-4	PCB-117/116/85	C	8170	8170	pg/L	354
55312-69-1	PCB-86/87/97/109/119/125	C	33800	33800	pg/L	707
55215-17-3	PCB-88/91	C	5090	5090	pg/L	236
73575-57-2	PCB-89	U	118	118	pg/L	118
68194-07-0	PCB-113/90/101	CU	354	354	pg/L	354
52663-61-3	PCB-92	U	118	118	pg/L	118
73575-56-1	PCB-93/100	CU	236	236	pg/L	236
73575-55-0	PCB-94		121	120	pg/L	118
38379-99-6	PCB-95		41400	41400	pg/L	118
73575-54-9	PCB-96		135	134	pg/L	118
60233-25-2	PCB-102/98	C	614	613	pg/L	236
38380-01-7	PCB-99		23700	23700	pg/L	589
60145-21-3	PCB-103		469	468	pg/L	118
56558-16-8	PCB-104	U	118	118	pg/L	118
32598-14-4	PCB-105		14800	14800	pg/L	589
70424-69-0	PCB-106	U	118	118	pg/L	118
70424-68-9	PCB-107		3740	3740	pg/L	118
70362-41-3	PCB-108/124	C	1890	1890	pg/L	236
38380-03-9	PCB-110/115	CU	236	236	pg/L	236
39635-32-0	PCB-111	U	118	118	pg/L	118
74472-36-9	PCB-112	U	118	118	pg/L	118
74472-37-0	PCB-114		495	493	pg/L	118
31508-00-6	PCB-118		44000	44000	pg/L	118
68194-12-7	PCB-120		293	292	pg/L	118
56558-18-0	PCB-121	U	118	118	pg/L	118
76842-07-4	PCB-122		525	523	pg/L	118
65510-44-3	PCB-123		676	675	pg/L	589
57465-28-8	PCB-126		400	399	pg/L	118

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3420
Lab Sample ID: 2739001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10691
Batch ID: 19589
Run Date: 10/04/2011 13:57
Data File: c04oct11a-4
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 848.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	118	118	pg/L	118
38380-07-3	PCB-128/166	C	18100	18100	pg/L	236
55215-18-4	PCB-138/163/129	C	154000	154000	pg/L	354
52663-66-8	PCB-130		8390	8390	pg/L	118
61798-70-7	PCB-131	U	118	118	pg/L	118
38380-05-1	PCB-132	U	118	118	pg/L	118
35694-04-3	PCB-133	U	118	118	pg/L	118
52704-70-8	PCB-134	U	589	589	pg/L	589
52744-13-5	PCB-151/135	CU	236	236	pg/L	236
38411-22-2	PCB-136		15800	15800	pg/L	118
35694-06-5	PCB-137		3980	3980	pg/L	118
56030-56-9	PCB-139/140	CU	236	236	pg/L	236
52712-04-6	PCB-141		33600	33600	pg/L	118
41411-61-4	PCB-142	U	118	118	pg/L	118
68194-15-0	PCB-143	U	118	118	pg/L	118
68194-14-9	PCB-144	U	118	118	pg/L	118
74472-40-5	PCB-145	U	118	118	pg/L	118
51908-16-8	PCB-146		26000	26000	pg/L	118
68194-13-8	PCB-147/149	CU	236	236	pg/L	236
74472-41-6	PCB-148	U	118	118	pg/L	118
68194-08-1	PCB-150	U	118	118	pg/L	118
68194-09-2	PCB-152	U	118	118	pg/L	118
35065-27-1	PCB-153/168	C	126000	126000	pg/L	236
60145-22-4	PCB-154		1620	1620	pg/L	118
33979-03-2	PCB-155	U	118	118	pg/L	118
38380-08-4	PCB-156/157	C	12500	12500	pg/L	236
74472-42-7	PCB-158		14600	14600	pg/L	118
39635-35-3	PCB-159	U	118	118	pg/L	118
41411-62-5	PCB-160	U	118	118	pg/L	118
74472-43-8	PCB-161	U	118	118	pg/L	118
39635-34-2	PCB-162		301	300	pg/L	118
74472-45-0	PCB-164		13200	13200	pg/L	118

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3420
Lab Sample ID: 2739001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10691
Batch ID: 19589
Run Date: 10/04/2011 13:57
Data File: c04oct11a-4
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 848.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	118	118	pg/L	118
52663-72-6	PCB-167		5600	5600	pg/L	118
32774-16-6	PCB-169	U	118	118	pg/L	118
35065-30-6	PCB-170		42000	42000	pg/L	118
52663-71-5	PCB-173/171	C	14900	14900	pg/L	236
52663-74-8	PCB-172		8280	8280	pg/L	118
38411-25-5	PCB-174		60000	60000	pg/L	118
40186-70-7	PCB-175		1820	1810	pg/L	118
52663-65-7	PCB-176		5710	5710	pg/L	118
52663-70-4	PCB-177		29800	29800	pg/L	118
52663-67-9	PCB-178		10300	10300	pg/L	118
52663-64-6	PCB-179		19600	19600	pg/L	118
35065-29-3	PCB-193/180	CU	236	236	pg/L	236
74472-47-2	PCB-181		259	257	pg/L	118
60145-23-5	PCB-182		190	188	pg/L	118
52663-69-1	PCB-183/185	C	31100	31100	pg/L	236
74472-48-3	PCB-184	U	118	118	pg/L	118
74472-49-4	PCB-186	U	118	118	pg/L	118
52663-68-0	PCB-187		57700	57700	pg/L	118
74487-85-7	PCB-188	U	118	118	pg/L	118
39635-31-9	PCB-189		1820	1810	pg/L	118
41411-64-7	PCB-190		9230	9230	pg/L	118
74472-50-7	PCB-191		1630	1630	pg/L	118
74472-51-8	PCB-192	U	118	118	pg/L	118
35694-08-7	PCB-194		18500	18500	pg/L	118
52663-78-2	PCB-195		8140	8140	pg/L	118
42740-50-1	PCB-196		10200	10200	pg/L	118
33091-17-7	PCB-197/200	CU	236	236	pg/L	236
68194-17-2	PCB-198/199	C	21900	21900	pg/L	236
40186-71-8	PCB-201		2580	2580	pg/L	118
2136-99-4	PCB-202		3770	3770	pg/L	118
52663-76-0	PCB-203		12500	12500	pg/L	118

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3420
Lab Sample ID: 2739001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10691
Batch ID: 19589
Run Date: 10/04/2011 13:57
Data File: c04oct11a-4
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/19/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 848.5 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 5
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	118	118	pg/L	118
74472-53-0	PCB-205		1030	1030	pg/L	118
40186-72-9	PCB-206		3250	3250	pg/L	118
52663-79-3	PCB-207		478	477	pg/L	118
52663-77-1	PCB-208		803	803	pg/L	118
2051-24-3	PCB-209		368	367	pg/L	118
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		204	202	pg/L	
25323-68-6	Total Tri PCBs		2990	2980	pg/L	
26914-33-0	Total Tetra PCBs		46700	46600	pg/L	
25429-29-2	Total Penta PCBs		189000	189000	pg/L	
26601-64-9	Total Hexa PCBs		434000	434000	pg/L	
28655-71-2	Total Hepta PCBs		294000	294000	pg/L	
55722-26-4	Total Octa PCBs		78600	78600	pg/L	
53742-07-7	Total Nona PCBs		4530	4530	pg/L	
2051-24-3	Total Deca PCB		368	367	pg/L	
	Total PCB Congeners		1050000	1050000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1320	2360	pg/L	55.8	(15%-150%)
13C-3-MoCB		1740	2360	pg/L	73.8	(15%-150%)
13C-4-DiCB		1530	2360	pg/L	64.8	(25%-150%)
13C-15-DiCB		2420	2360	pg/L	103	(25%-150%)
13C-19-TrCB		2150	2360	pg/L	91.2	(25%-150%)
13C-37-TrCB		2490	2360	pg/L	106	(25%-150%)
13C-54-TeCB		1920	2360	pg/L	81.3	(25%-150%)
13C-77-TeCB		2260	2360	pg/L	95.8	(25%-150%)
13C-81-TeCB		2250	2360	pg/L	95.4	(25%-150%)
13C-104-PeCB		1780	2360	pg/L	75.4	(25%-150%)
13C-105-PeCB		1970	2360	pg/L	83.4	(25%-150%)
13C-114-PeCB		1910	2360	pg/L	80.9	(25%-150%)
13C-118-PeCB		1920	2360	pg/L	81.4	(25%-150%)
13C-123-PeCB		2050	2360	pg/L	86.9	(25%-150%)
13C-126-PeCB		1960	2360	pg/L	83.2	(25%-150%)
13C-155-HxCB		2000	2360	pg/L	84.8	(25%-150%)
13C-156-HxCB	C	3590	4710	pg/L	76.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1720	2360	pg/L	73.1	(25%-150%)
13C-169-HxCB		2100	2360	pg/L	89.1	(25%-150%)
13C-188-HpCB		1600	2360	pg/L	67.9	(25%-150%)
13C-189-HpCB		1430	2360	pg/L	60.6	(25%-150%)
13C-202-OcCB		1620	2360	pg/L	68.8	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3420	Client: LANL001	Project: LANL00109
Lab Sample ID: 2739001	Date Collected: 08/19/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPSAN-11-10691		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 13:57	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-4		Dilution: 5
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 848.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			2130	2360	pg/L	90.2 (25%-150%)
13C-206-NoCB			2980	2360	pg/L	127 (25%-150%)
13C-208-NoCB			1800	2360	pg/L	76.5 (25%-150%)
13C-209-DeCB			2010	2360	pg/L	85.2 (25%-150%)
13C-28-TrCB			2180	2360	pg/L	92.6 (30%-135%)
13C-111-PeCB			2210	2360	pg/L	93.7 (30%-135%)
13C-178-HpCB			2280	2360	pg/L	96.6 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3422
Lab Sample ID: 2735001
Client Sample: 1668A Water
Client ID: WT_IPCHA-11-11539
Batch ID: 19589
Run Date: 09/27/2011 21:13
Data File: c26sep11a_3-7
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 942.2 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.2	21.2	pg/L	21.2
2051-61-8	PCB-2	U	21.2	21.2	pg/L	21.2
2051-62-9	PCB-3	U	21.2	21.2	pg/L	21.2
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.2	21.2	pg/L	21.2
25569-80-6	PCB-6	U	21.2	21.2	pg/L	21.2
33284-50-3	PCB-7	U	21.2	21.2	pg/L	21.2
34883-43-7	PCB-8	U	21.2	21.2	pg/L	21.2
34883-39-1	PCB-9	U	21.2	21.2	pg/L	21.2
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11	U	106	106	pg/L	106
2974-92-7	PCB-13/12	CU	42.5	42.5	pg/L	42.5
34883-41-5	PCB-14	U	21.2	21.2	pg/L	21.2
2050-68-2	PCB-15	U	21.2	21.2	pg/L	21.2
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17	U	21.2	21.2	pg/L	21.2
37680-65-2	PCB-18/30	CU	42.5	42.5	pg/L	42.5
38444-73-4	PCB-19	U	21.2	21.2	pg/L	21.2
38444-84-7	PCB-20/28	CU	42.5	42.5	pg/L	42.5
55702-46-0	PCB-21/33	CU	42.5	42.5	pg/L	42.5
38444-85-8	PCB-22	U	21.2	21.2	pg/L	21.2
55720-44-0	PCB-23	U	21.2	21.2	pg/L	21.2
55702-45-9	PCB-24	U	21.2	21.2	pg/L	21.2
55712-37-3	PCB-25	U	21.2	21.2	pg/L	21.2
38444-81-4	PCB-26/29	CU	42.5	42.5	pg/L	42.5
38444-76-7	PCB-27	U	21.2	21.2	pg/L	21.2
16606-02-3	PCB-31	B	34.7	33.9	pg/L	21.2
38444-77-8	PCB-32	U	21.2	21.2	pg/L	21.2
37680-68-5	PCB-34	U	21.2	21.2	pg/L	21.2
37680-69-6	PCB-35	U	21.2	21.2	pg/L	21.2
38444-87-0	PCB-36	U	21.2	21.2	pg/L	21.2
38444-90-5	PCB-37	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3422
Lab Sample ID: 2735001
Client Sample: 1668A Water
Client ID: WT_IPCHA-11-11539
Batch ID: 19589
Run Date: 09/27/2011 21:13
Data File: c26sep11a_3-7
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 942.2 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.2	21.2	pg/L	21.2
38444-88-1	PCB-39	U	21.2	21.2	pg/L	21.2
38444-93-8	PCB-40/71	CU	42.5	42.5	pg/L	42.5
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42	U	21.2	21.2	pg/L	21.2
70362-46-8	PCB-43	U	21.2	21.2	pg/L	21.2
41464-39-5	PCB-44/65/47	BC	86.1	84.2	pg/L	63.7
70362-45-7	PCB-45/51	CU	42.5	42.5	pg/L	42.5
41464-47-5	PCB-46	U	21.2	21.2	pg/L	21.2
70362-47-9	PCB-48	U	21.2	21.2	pg/L	21.2
41464-40-8	PCB-69/49	CU	42.5	42.5	pg/L	42.5
62796-65-0	PCB-50/53	CU	42.5	42.5	pg/L	42.5
35693-99-3	PCB-52		167	165	pg/L	21.2
15968-05-5	PCB-54	U	21.2	21.2	pg/L	21.2
74338-24-2	PCB-55	U	21.2	21.2	pg/L	21.2
41464-43-1	PCB-56		38.8	37.4	pg/L	21.2
70424-67-8	PCB-57	U	21.2	21.2	pg/L	21.2
41464-49-7	PCB-58	U	21.2	21.2	pg/L	21.2
74472-33-6	PCB-59/62/75	CU	63.7	63.7	pg/L	63.7
33025-41-1	PCB-60	U	21.2	21.2	pg/L	21.2
33284-53-6	PCB-61/76/70/74	C	229	228	pg/L	84.9
74472-34-7	PCB-63	U	21.2	21.2	pg/L	21.2
52663-58-8	PCB-64	U	21.2	21.2	pg/L	21.2
32598-10-0	PCB-66		74.5	73.4	pg/L	21.2
73575-53-8	PCB-67	U	21.2	21.2	pg/L	21.2
73575-52-7	PCB-68	U	21.2	21.2	pg/L	21.2
41464-42-0	PCB-72	U	21.2	21.2	pg/L	21.2
74338-23-1	PCB-73	U	21.2	21.2	pg/L	21.2
32598-13-3	PCB-77		44.9	43.8	pg/L	21.2
70362-49-1	PCB-78	U	21.2	21.2	pg/L	21.2
41464-48-6	PCB-79	U	21.2	21.2	pg/L	21.2
33284-52-5	PCB-80	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3422
 Lab Sample ID: 2735001
 Client Sample: 1668A Water
 Client ID: WT_IPCHA-11-11539
 Batch ID: 19589
 Run Date: 09/27/2011 21:13
 Data File: c26sep11a_3-7
 Prep Batch: 19571
 Prep Date: 14-SEP-11

Client: LANL001
 Date Collected: 08/21/2011 12:00
 Date Received: 09/03/2011 09:58
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 942.2 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.2	21.2	pg/L	21.2
52663-62-4	PCB-82		52.6	51.2	pg/L	21.2
60145-20-2	PCB-83	U	21.2	21.2	pg/L	21.2
52663-60-2	PCB-84		106	105	pg/L	21.2
65510-45-4	PCB-117/116/85	C	83.3	82.2	pg/L	63.7
55312-69-1	PCB-86/87/97/109/119/125	C	348	347	pg/L	127
55215-17-3	PCB-88/91	C	47.0	45.8	pg/L	42.5
73575-57-2	PCB-89	U	21.2	21.2	pg/L	21.2
68194-07-0	PCB-113/90/101	C	477	476	pg/L	63.7
52663-61-3	PCB-92		77.1	75.8	pg/L	21.2
73575-56-1	PCB-93/100	CU	42.5	42.5	pg/L	42.5
73575-55-0	PCB-94	U	21.2	21.2	pg/L	21.2
38379-99-6	PCB-95		285	283	pg/L	21.2
73575-54-9	PCB-96	U	21.2	21.2	pg/L	21.2
60233-25-2	PCB-102/98	CU	42.5	42.5	pg/L	42.5
38380-01-7	PCB-99		158	157	pg/L	106
60145-21-3	PCB-103	U	21.2	21.2	pg/L	21.2
56558-16-8	PCB-104	U	21.2	21.2	pg/L	21.2
32598-14-4	PCB-105		260	258	pg/L	106
70424-69-0	PCB-106	U	21.2	21.2	pg/L	21.2
70424-68-9	PCB-107		48.4	46.9	pg/L	21.2
70362-41-3	PCB-108/124	CU	42.5	42.5	pg/L	42.5
38380-03-9	PCB-110/115	CU	42.5	42.5	pg/L	42.5
39635-32-0	PCB-111	U	21.2	21.2	pg/L	21.2
74472-36-9	PCB-112	U	21.2	21.2	pg/L	21.2
74472-37-0	PCB-114	U	21.2	21.2	pg/L	21.2
31508-00-6	PCB-118		571	570	pg/L	21.2
68194-12-7	PCB-120	U	21.2	21.2	pg/L	21.2
56558-18-0	PCB-121	U	21.2	21.2	pg/L	21.2
76842-07-4	PCB-122	U	21.2	21.2	pg/L	21.2
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126	U	21.2	21.2	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3422
Lab Sample ID: 2735001
Client Sample: 1668A Water
Client ID: WT_IPCHA-11-11539
Batch ID: 19589
Run Date: 09/27/2011 21:13
Data File: c26sep11a_3-7
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 942.2 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.2	21.2	pg/L	21.2
38380-07-3	PCB-128/166	C	195	193	pg/L	42.5
55215-18-4	PCB-138/163/129	C	1130	1120	pg/L	63.7
52663-66-8	PCB-130		75.8	73.4	pg/L	21.2
61798-70-7	PCB-131	U	21.2	21.2	pg/L	21.2
38380-05-1	PCB-132		288	286	pg/L	21.2
35694-04-3	PCB-133	U	21.2	21.2	pg/L	21.2
52704-70-8	PCB-134	U	106	106	pg/L	106
52744-13-5	PCB-151/135	C	214	213	pg/L	42.5
38411-22-2	PCB-136		70.8	69.7	pg/L	21.2
35694-06-5	PCB-137	U	21.2	21.2	pg/L	21.2
56030-56-9	PCB-139/140	CU	42.5	42.5	pg/L	42.5
52712-04-6	PCB-141		149	147	pg/L	21.2
41411-61-4	PCB-142	U	21.2	21.2	pg/L	21.2
68194-15-0	PCB-143	U	21.2	21.2	pg/L	21.2
68194-14-9	PCB-144		25.3	24	pg/L	21.2
74472-40-5	PCB-145	U	21.2	21.2	pg/L	21.2
51908-16-8	PCB-146		174	172	pg/L	21.2
68194-13-8	PCB-147/149	C	678	671	pg/L	42.5
74472-41-6	PCB-148	U	21.2	21.2	pg/L	21.2
68194-08-1	PCB-150	U	21.2	21.2	pg/L	21.2
68194-09-2	PCB-152	U	21.2	21.2	pg/L	21.2
35065-27-1	PCB-153/168	C	743	741	pg/L	42.5
60145-22-4	PCB-154	U	21.2	21.2	pg/L	21.2
33979-03-2	PCB-155	U	21.2	21.2	pg/L	21.2
38380-08-4	PCB-156/157	C	141	139	pg/L	42.5
74472-42-7	PCB-158		124	122	pg/L	21.2
39635-35-3	PCB-159	U	21.2	21.2	pg/L	21.2
41411-62-5	PCB-160	U	21.2	21.2	pg/L	21.2
74472-43-8	PCB-161	U	21.2	21.2	pg/L	21.2
39635-34-2	PCB-162	U	21.2	21.2	pg/L	21.2
74472-45-0	PCB-164		85.0	82.8	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3422
 Lab Sample ID: 2735001
 Client Sample: 1668A Water
 Client ID: WT_IPCHA-11-11539
 Batch ID: 19589
 Run Date: 09/27/2011 21:13
 Data File: c26sep11a_3-7
 Prep Batch: 19571
 Prep Date: 14-SEP-11

Client: LANL001
 Date Collected: 08/21/2011 12:00
 Date Received: 09/03/2011 09:58
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 942.2 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.2	21.2	pg/L	21.2
52663-72-6	PCB-167		57.2	56.1	pg/L	21.2
32774-16-6	PCB-169	U	21.2	21.2	pg/L	21.2
35065-30-6	PCB-170		197	195	pg/L	21.2
52663-71-5	PCB-173/171	C	62.8	61.2	pg/L	42.5
52663-74-8	PCB-172		42.9	41.5	pg/L	21.2
38411-25-5	PCB-174		233	231	pg/L	21.2
40186-70-7	PCB-175	U	21.2	21.2	pg/L	21.2
52663-65-7	PCB-176	U	21.2	21.2	pg/L	21.2
52663-70-4	PCB-177		112	110	pg/L	21.2
52663-67-9	PCB-178		43.7	42.3	pg/L	21.2
52663-64-6	PCB-179		64.6	63.5	pg/L	21.2
35065-29-3	PCB-193/180	C	468	466	pg/L	42.5
74472-47-2	PCB-181	U	21.2	21.2	pg/L	21.2
60145-23-5	PCB-182	U	21.2	21.2	pg/L	21.2
52663-69-1	PCB-183/185	C	112	110	pg/L	42.5
74472-48-3	PCB-184	U	21.2	21.2	pg/L	21.2
74472-49-4	PCB-186	U	21.2	21.2	pg/L	21.2
52663-68-0	PCB-187		231	230	pg/L	21.2
74487-85-7	PCB-188	U	21.2	21.2	pg/L	21.2
39635-31-9	PCB-189	U	21.2	21.2	pg/L	21.2
41411-64-7	PCB-190		36.8	35.7	pg/L	21.2
74472-50-7	PCB-191	U	21.2	21.2	pg/L	21.2
74472-51-8	PCB-192	U	21.2	21.2	pg/L	21.2
35694-08-7	PCB-194		105	104	pg/L	21.2
52663-78-2	PCB-195		36.6	35.7	pg/L	21.2
42740-50-1	PCB-196		52.7	51.4	pg/L	21.2
33091-17-7	PCB-197/200	CU	42.5	42.5	pg/L	42.5
68194-17-2	PCB-198/199	C	133	132	pg/L	42.5
40186-71-8	PCB-201	U	21.2	21.2	pg/L	21.2
2136-99-4	PCB-202		23.5	22.5	pg/L	21.2
52663-76-0	PCB-203		77.0	75.8	pg/L	21.2

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3422
Lab Sample ID: 2735001
Client Sample: 1668A Water
Client ID: WT_IPCHA-11-11539
Batch ID: 19589
Run Date: 09/27/2011 21:13
Data File: c26sep11a_3-7
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 942.2 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.2	21.2	pg/L	21.2
74472-53-0	PCB-205	U	21.2	21.2	pg/L	21.2
40186-72-9	PCB-206		51.2	49.9	pg/L	21.2
52663-79-3	PCB-207	U	21.2	21.2	pg/L	21.2
52663-77-1	PCB-208	U	21.2	21.2	pg/L	21.2
2051-24-3	PCB-209	U	21.2	21.2	pg/L	21.2
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		554	547	pg/L	
25429-29-2	Total Penta PCBs		2510	2500	pg/L	
26601-64-9	Total Hexa PCBs		4150	4110	pg/L	
28655-71-2	Total Hepta PCBs		1600	1590	pg/L	
55722-26-4	Total Octa PCBs		427	421	pg/L	
53742-07-7	Total Nona PCBs		51.2	49.9	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		9290	9220	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		966	2120	pg/L	45.5	(15%-150%)
13C-3-MoCB		1220	2120	pg/L	57.7	(15%-150%)
13C-4-DiCB		1140	2120	pg/L	53.7	(25%-150%)
13C-15-DiCB		1950	2120	pg/L	91.9	(25%-150%)
13C-19-TrCB		1610	2120	pg/L	75.9	(25%-150%)
13C-37-TrCB		2020	2120	pg/L	95.2	(25%-150%)
13C-54-TeCB		1640	2120	pg/L	77.5	(25%-150%)
13C-77-TeCB		1870	2120	pg/L	88.0	(25%-150%)
13C-81-TeCB		1860	2120	pg/L	87.8	(25%-150%)
13C-104-PeCB		1800	2120	pg/L	84.7	(25%-150%)
13C-105-PeCB		1710	2120	pg/L	80.4	(25%-150%)
13C-114-PeCB		1660	2120	pg/L	78.0	(25%-150%)
13C-118-PeCB		1690	2120	pg/L	79.4	(25%-150%)
13C-123-PeCB		1770	2120	pg/L	83.4	(25%-150%)
13C-126-PeCB		1620	2120	pg/L	76.3	(25%-150%)
13C-155-HxCB		2050	2120	pg/L	96.6	(25%-150%)
13C-156-HxCB	C	3280	4250	pg/L	77.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1600	2120	pg/L	75.3	(25%-150%)
13C-169-HxCB		1780	2120	pg/L	84.0	(25%-150%)
13C-188-HpCB		1680	2120	pg/L	79.4	(25%-150%)
13C-189-HpCB		1390	2120	pg/L	65.5	(25%-150%)
13C-202-OcCB		1650	2120	pg/L	77.6	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3422	Client: LANL001	Project: LANL00109
Lab Sample ID: 2735001	Date Collected: 08/21/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPCHA-11-11539		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/27/2011 21:13	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 942.2 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1870	2120	pg/L	87.9 (25%-150%)
13C-206-NoCB			2030	2120	pg/L	95.8 (25%-150%)
13C-208-NoCB			1740	2120	pg/L	81.9 (25%-150%)
13C-209-DeCB			1860	2120	pg/L	87.6 (25%-150%)
13C-28-TrCB			1630	2120	pg/L	76.9 (30%-135%)
13C-111-PeCB			1880	2120	pg/L	88.4 (30%-135%)
13C-178-HpCB			2160	2120	pg/L	102 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3424
Lab Sample ID: 2736001
Client Sample: 1668A Water
Client ID: WT_IPWAT-11-11281
Batch ID: 19589
Run Date: 09/27/2011 19:02
Data File: c26sep11a_3-5
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 946.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.1	21.1	pg/L	21.1
2051-61-8	PCB-2	U	21.1	21.1	pg/L	21.1
2051-62-9	PCB-3	U	21.1	21.1	pg/L	21.1
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.1	21.1	pg/L	21.1
25569-80-6	PCB-6	U	21.1	21.1	pg/L	21.1
33284-50-3	PCB-7	U	21.1	21.1	pg/L	21.1
34883-43-7	PCB-8	U	21.1	21.1	pg/L	21.1
34883-39-1	PCB-9	U	21.1	21.1	pg/L	21.1
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11	U	106	106	pg/L	106
2974-92-7	PCB-13/12	CU	42.3	42.3	pg/L	42.3
34883-41-5	PCB-14	U	21.1	21.1	pg/L	21.1
2050-68-2	PCB-15		73.9	71.6	pg/L	21.1
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17	B	40.7	39.2	pg/L	21.1
37680-65-2	PCB-18/30	BC	65.8	64.7	pg/L	42.3
38444-73-4	PCB-19	U	21.1	21.1	pg/L	21.1
38444-84-7	PCB-20/28	C	235	234	pg/L	42.3
55702-46-0	PCB-21/33	CU	42.3	42.3	pg/L	42.3
38444-85-8	PCB-22		75.2	74.3	pg/L	21.1
55720-44-0	PCB-23	U	21.1	21.1	pg/L	21.1
55702-45-9	PCB-24	U	21.1	21.1	pg/L	21.1
55712-37-3	PCB-25	U	21.1	21.1	pg/L	21.1
38444-81-4	PCB-26/29	CU	42.3	42.3	pg/L	42.3
38444-76-7	PCB-27	U	21.1	21.1	pg/L	21.1
16606-02-3	PCB-31		185	184	pg/L	21.1
38444-77-8	PCB-32		33.0	32.1	pg/L	21.1
37680-68-5	PCB-34	U	21.1	21.1	pg/L	21.1
37680-69-6	PCB-35	U	21.1	21.1	pg/L	21.1
38444-87-0	PCB-36	U	21.1	21.1	pg/L	21.1
38444-90-5	PCB-37		121	120	pg/L	21.1

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3424
 Lab Sample ID: 2736001
 Client Sample: 1668A Water
 Client ID: WT_IPWAT-11-11281
 Batch ID: 19589
 Run Date: 09/27/2011 19:02
 Data File: c26sep11a_3-5
 Prep Batch: 19571
 Prep Date: 14-SEP-11

Client: LANL001
 Date Collected: 08/21/2011 12:00
 Date Received: 09/03/2011 09:58
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 946.4 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.1	21.1	pg/L	21.1
38444-88-1	PCB-39	U	21.1	21.1	pg/L	21.1
38444-93-8	PCB-40/71	C	201	199	pg/L	42.3
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42		106	104	pg/L	21.1
70362-46-8	PCB-43	U	21.1	21.1	pg/L	21.1
41464-39-5	PCB-44/65/47	CU	63.4	63.4	pg/L	63.4
70362-45-7	PCB-45/51	C	47.6	46.5	pg/L	42.3
41464-47-5	PCB-46	U	21.1	21.1	pg/L	21.1
70362-47-9	PCB-48		61.4	59.5	pg/L	21.1
41464-40-8	PCB-69/49	C	292	291	pg/L	42.3
62796-65-0	PCB-50/53	CU	42.3	42.3	pg/L	42.3
35693-99-3	PCB-52		557	555	pg/L	21.1
15968-05-5	PCB-54	U	21.1	21.1	pg/L	21.1
74338-24-2	PCB-55	U	21.1	21.1	pg/L	21.1
41464-43-1	PCB-56		387	385	pg/L	21.1
70424-67-8	PCB-57	U	21.1	21.1	pg/L	21.1
41464-49-7	PCB-58	U	21.1	21.1	pg/L	21.1
74472-33-6	PCB-59/62/75	CU	63.4	63.4	pg/L	63.4
33025-41-1	PCB-60		159	158	pg/L	21.1
33284-53-6	PCB-61/76/70/74	C	1010	1010	pg/L	84.5
74472-34-7	PCB-63	U	21.1	21.1	pg/L	21.1
52663-58-8	PCB-64		212	210	pg/L	21.1
32598-10-0	PCB-66		687	686	pg/L	21.1
73575-53-8	PCB-67	U	21.1	21.1	pg/L	21.1
73575-52-7	PCB-68	U	21.1	21.1	pg/L	21.1
41464-42-0	PCB-72	U	21.1	21.1	pg/L	21.1
74338-23-1	PCB-73	U	21.1	21.1	pg/L	21.1
32598-13-3	PCB-77		70.6	69.5	pg/L	21.1
70362-49-1	PCB-78	U	21.1	21.1	pg/L	21.1
41464-48-6	PCB-79	U	21.1	21.1	pg/L	21.1
33284-52-5	PCB-80	U	21.1	21.1	pg/L	21.1

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3424	Client: LANL001	Project: LANL00109
Lab Sample ID: 2736001	Date Collected: 08/21/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPWAT-11-11281		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/27/2011 19:02	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-5		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 946.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.1	21.1	pg/L	21.1
52663-62-4	PCB-82		88.0	86.6	pg/L	21.1
60145-20-2	PCB-83		44.0	42.5	pg/L	21.1
52663-60-2	PCB-84		131	130	pg/L	21.1
65510-45-4	PCB-117/116/85	C	113	112	pg/L	63.4
55312-69-1	PCB-86/87/97/109/119/125	C	381	379	pg/L	127
55215-17-3	PCB-88/91	C	73.3	72.1	pg/L	42.3
73575-57-2	PCB-89	U	21.1	21.1	pg/L	21.1
68194-07-0	PCB-113/90/101	C	555	554	pg/L	63.4
52663-61-3	PCB-92		79.8	78.5	pg/L	21.1
73575-56-1	PCB-93/100	CU	42.3	42.3	pg/L	42.3
73575-55-0	PCB-94	U	21.1	21.1	pg/L	21.1
38379-99-6	PCB-95		398	397	pg/L	21.1
73575-54-9	PCB-96	U	21.1	21.1	pg/L	21.1
60233-25-2	PCB-102/98	CU	42.3	42.3	pg/L	42.3
38380-01-7	PCB-99		190	189	pg/L	106
60145-21-3	PCB-103	U	21.1	21.1	pg/L	21.1
56558-16-8	PCB-104	U	21.1	21.1	pg/L	21.1
32598-14-4	PCB-105		274	273	pg/L	106
70424-69-0	PCB-106	U	21.1	21.1	pg/L	21.1
70424-68-9	PCB-107		38.4	36.9	pg/L	21.1
70362-41-3	PCB-108/124	CU	42.3	42.3	pg/L	42.3
38380-03-9	PCB-110/115	CU	42.3	42.3	pg/L	42.3
39635-32-0	PCB-111	U	21.1	21.1	pg/L	21.1
74472-36-9	PCB-112	U	21.1	21.1	pg/L	21.1
74472-37-0	PCB-114	U	21.1	21.1	pg/L	21.1
31508-00-6	PCB-118		410	409	pg/L	21.1
68194-12-7	PCB-120	U	21.1	21.1	pg/L	21.1
56558-18-0	PCB-121	U	21.1	21.1	pg/L	21.1
76842-07-4	PCB-122	U	21.1	21.1	pg/L	21.1
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126	U	21.1	21.1	pg/L	21.1

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3424
Lab Sample ID: 2736001
Client Sample: 1668A Water
Client ID: WT_IPWAT-11-11281
Batch ID: 19589
Run Date: 09/27/2011 19:02
Data File: c26sep11a_3-5
Prep Batch: 19571
Prep Date: 14-SEP-11

Client: LANL001
Date Collected: 08/21/2011 12:00
Date Received: 09/03/2011 09:58
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 946.4 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.1	21.1	pg/L	21.1
38380-07-3	PCB-128/166	C	78.5	76.6	pg/L	42.3
55215-18-4	PCB-138/163/129	C	1140	1140	pg/L	63.4
52663-66-8	PCB-130		34.5	32.1	pg/L	21.1
61798-70-7	PCB-131	U	21.1	21.1	pg/L	21.1
38380-05-1	PCB-132		305	302	pg/L	21.1
35694-04-3	PCB-133	U	21.1	21.1	pg/L	21.1
52704-70-8	PCB-134	U	106	106	pg/L	106
52744-13-5	PCB-151/135	C	687	685	pg/L	42.3
38411-22-2	PCB-136		174	173	pg/L	21.1
35694-06-5	PCB-137	U	21.1	21.1	pg/L	21.1
56030-56-9	PCB-139/140	CU	42.3	42.3	pg/L	42.3
52712-04-6	PCB-141		392	390	pg/L	21.1
41411-61-4	PCB-142	U	21.1	21.1	pg/L	21.1
68194-15-0	PCB-143	U	21.1	21.1	pg/L	21.1
68194-14-9	PCB-144		64.8	63.5	pg/L	21.1
74472-40-5	PCB-145	U	21.1	21.1	pg/L	21.1
51908-16-8	PCB-146		200	198	pg/L	21.1
68194-13-8	PCB-147/149	C	1400	1400	pg/L	42.3
74472-41-6	PCB-148	U	21.1	21.1	pg/L	21.1
68194-08-1	PCB-150	U	21.1	21.1	pg/L	21.1
68194-09-2	PCB-152	U	21.1	21.1	pg/L	21.1
35065-27-1	PCB-153/168	C	1390	1390	pg/L	42.3
60145-22-4	PCB-154	U	21.1	21.1	pg/L	21.1
33979-03-2	PCB-155	U	21.1	21.1	pg/L	21.1
38380-08-4	PCB-156/157	C	73.1	71.6	pg/L	42.3
74472-42-7	PCB-158		93.9	92.1	pg/L	21.1
39635-35-3	PCB-159	U	21.1	21.1	pg/L	21.1
41411-62-5	PCB-160	U	21.1	21.1	pg/L	21.1
74472-43-8	PCB-161	U	21.1	21.1	pg/L	21.1
39635-34-2	PCB-162	U	21.1	21.1	pg/L	21.1
74472-45-0	PCB-164		74.5	72.4	pg/L	21.1

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3424	Client: LANL001	Project: LANL00109
Lab Sample ID: 2736001	Date Collected: 08/21/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPWAT-11-11281		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/27/2011 19:02	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-5		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 946.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.1	21.1	pg/L	21.1
52663-72-6	PCB-167		25.7	24.5	pg/L	21.1
32774-16-6	PCB-169	U	21.1	21.1	pg/L	21.1
35065-30-6	PCB-170		643	642	pg/L	21.1
52663-71-5	PCB-173/171	C	203	201	pg/L	42.3
52663-74-8	PCB-172		129	128	pg/L	21.1
38411-25-5	PCB-174		1240	1240	pg/L	21.1
40186-70-7	PCB-175		29.8	28.4	pg/L	21.1
52663-65-7	PCB-176		113	112	pg/L	21.1
52663-70-4	PCB-177		492	490	pg/L	21.1
52663-67-9	PCB-178		200	199	pg/L	21.1
52663-64-6	PCB-179		470	469	pg/L	21.1
35065-29-3	PCB-193/180	C	2230	2230	pg/L	42.3
74472-47-2	PCB-181	U	21.1	21.1	pg/L	21.1
60145-23-5	PCB-182	U	21.1	21.1	pg/L	21.1
52663-69-1	PCB-183/185	C	585	584	pg/L	42.3
74472-48-3	PCB-184	U	21.1	21.1	pg/L	21.1
74472-49-4	PCB-186	U	21.1	21.1	pg/L	21.1
52663-68-0	PCB-187		1280	1280	pg/L	21.1
74487-85-7	PCB-188	U	21.1	21.1	pg/L	21.1
39635-31-9	PCB-189	U	21.2	21.1	pg/L	21.1
41411-64-7	PCB-190		150	149	pg/L	21.1
74472-50-7	PCB-191		23.7	22.6	pg/L	21.1
74472-51-8	PCB-192	U	21.1	21.1	pg/L	21.1
35694-08-7	PCB-194		569	568	pg/L	21.1
52663-78-2	PCB-195		235	234	pg/L	21.1
42740-50-1	PCB-196		319	318	pg/L	21.1
33091-17-7	PCB-197/200	C	116	115	pg/L	42.3
68194-17-2	PCB-198/199	C	753	751	pg/L	42.3
40186-71-8	PCB-201		86.4	85.4	pg/L	21.1
2136-99-4	PCB-202		138	137	pg/L	21.1
52663-76-0	PCB-203		428	426	pg/L	21.1

Comments:

- B** The target analyte was detected in the associated blank.
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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3424	Client: LANL001	Project: LANL00109
Lab Sample ID: 2736001	Date Collected: 08/21/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPWAT-11-11281		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/27/2011 19:02	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-5		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 946.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.1	21.1	pg/L	21.1
74472-53-0	PCB-205		30.2	29.4	pg/L	21.1
40186-72-9	PCB-206		197	195	pg/L	21.1
52663-79-3	PCB-207	U	21.6	21.1	pg/L	21.1
52663-77-1	PCB-208		37.5	36.5	pg/L	21.1
2051-24-3	PCB-209		70.4	69.1	pg/L	21.1
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		73.9	71.6	pg/L	
25323-68-6	Total Tri PCBs		649	644	pg/L	
26914-33-0	Total Tetra PCBs		3790	3770	pg/L	
25429-29-2	Total Penta PCBs		2780	2760	pg/L	
26601-64-9	Total Hexa PCBs		6140	6110	pg/L	
28655-71-2	Total Hepta PCBs		7810	7770	pg/L	
55722-26-4	Total Octa PCBs		2670	2660	pg/L	
53742-07-7	Total Nona PCBs		256	232	pg/L	
2051-24-3	Total Deca PCB		70.4	69.1	pg/L	
	Total PCB Congeners		24200	24100	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1170	2110	pg/L	55.1	(15%-150%)
13C-3-MoCB		1440	2110	pg/L	68.3	(15%-150%)
13C-4-DiCB		1440	2110	pg/L	68.3	(25%-150%)
13C-15-DiCB		2410	2110	pg/L	114	(25%-150%)
13C-19-TrCB		2110	2110	pg/L	99.6	(25%-150%)
13C-37-TrCB		2160	2110	pg/L	102	(25%-150%)
13C-54-TeCB		1740	2110	pg/L	82.5	(25%-150%)
13C-77-TeCB		2020	2110	pg/L	95.8	(25%-150%)
13C-81-TeCB		1990	2110	pg/L	94.3	(25%-150%)
13C-104-PeCB		1950	2110	pg/L	92.3	(25%-150%)
13C-105-PeCB		1850	2110	pg/L	87.8	(25%-150%)
13C-114-PeCB		1780	2110	pg/L	84.4	(25%-150%)
13C-118-PeCB		1800	2110	pg/L	85.1	(25%-150%)
13C-123-PeCB		1930	2110	pg/L	91.3	(25%-150%)
13C-126-PeCB		1770	2110	pg/L	83.7	(25%-150%)
13C-155-HxCB		2200	2110	pg/L	104	(25%-150%)
13C-156-HxCB	C	3600	4230	pg/L	85.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1710	2110	pg/L	81.1	(25%-150%)
13C-169-HxCB		1980	2110	pg/L	93.8	(25%-150%)
13C-188-HpCB		1820	2110	pg/L	85.9	(25%-150%)
13C-189-HpCB		1550	2110	pg/L	73.3	(25%-150%)
13C-202-OcCB		1760	2110	pg/L	83.4	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3424	Client: LANL001	Project: LANL00109
Lab Sample ID: 2736001	Date Collected: 08/21/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/03/2011 09:58	
Client ID: WT_IPWAT-11-11281		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 09/27/2011 19:02	Analyst: MJC	Instrument: HRP791
Data File: c26sep11a_3-5		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 946.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			2070	2110	pg/L	98.2 (25%-150%)
13C-206-NoCB			2280	2110	pg/L	108 (25%-150%)
13C-208-NoCB			1870	2110	pg/L	88.5 (25%-150%)
13C-209-DeCB			2070	2110	pg/L	97.8 (25%-150%)
13C-28-TrCB			1750	2110	pg/L	82.8 (30%-135%)
13C-111-PeCB			2010	2110	pg/L	95.3 (30%-135%)
13C-178-HpCB			2250	2110	pg/L	106 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	20.9	20.9	pg/L	20.9
2051-61-8	PCB-2	U	20.9	20.9	pg/L	20.9
2051-62-9	PCB-3	U	20.9	20.9	pg/L	20.9
13029-08-8	PCB-4	U	105	105	pg/L	105
16605-91-7	PCB-5	U	20.9	20.9	pg/L	20.9
25569-80-6	PCB-6	U	20.9	20.9	pg/L	20.9
33284-50-3	PCB-7	U	20.9	20.9	pg/L	20.9
34883-43-7	PCB-8	U	20.9	20.9	pg/L	20.9
34883-39-1	PCB-9	U	20.9	20.9	pg/L	20.9
33146-45-1	PCB-10	U	105	105	pg/L	105
2050-67-1	PCB-11	U	105	105	pg/L	105
2974-92-7	PCB-13/12	CU	41.8	41.8	pg/L	41.8
34883-41-5	PCB-14	U	20.9	20.9	pg/L	20.9
2050-68-2	PCB-15	U	20.9	20.9	pg/L	20.9
38444-78-9	PCB-16	U	105	105	pg/L	105
37680-66-3	PCB-17	U	20.9	20.9	pg/L	20.9
37680-65-2	PCB-18/30	CU	41.8	41.8	pg/L	41.8
38444-73-4	PCB-19	U	20.9	20.9	pg/L	20.9
38444-84-7	PCB-20/28	CU	41.8	41.8	pg/L	41.8
55702-46-0	PCB-21/33	CU	41.8	41.8	pg/L	41.8
38444-85-8	PCB-22	U	20.9	20.9	pg/L	20.9
55720-44-0	PCB-23	U	20.9	20.9	pg/L	20.9
55702-45-9	PCB-24	U	20.9	20.9	pg/L	20.9
55712-37-3	PCB-25	U	20.9	20.9	pg/L	20.9
38444-81-4	PCB-26/29	CU	41.8	41.8	pg/L	41.8
38444-76-7	PCB-27	U	20.9	20.9	pg/L	20.9
16606-02-3	PCB-31	U	20.9	20.9	pg/L	20.9
38444-77-8	PCB-32	U	20.9	20.9	pg/L	20.9
37680-68-5	PCB-34	U	20.9	20.9	pg/L	20.9
37680-69-6	PCB-35	U	20.9	20.9	pg/L	20.9
38444-87-0	PCB-36	U	20.9	20.9	pg/L	20.9
38444-90-5	PCB-37	U	20.9	20.9	pg/L	20.9

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	20.9	20.9	pg/L	20.9
38444-88-1	PCB-39	U	20.9	20.9	pg/L	20.9
38444-93-8	PCB-40/71	CU	41.8	41.8	pg/L	41.8
52663-59-9	PCB-41	U	105	105	pg/L	105
36559-22-5	PCB-42	U	20.9	20.9	pg/L	20.9
70362-46-8	PCB-43	U	20.9	20.9	pg/L	20.9
41464-39-5	PCB-44/65/47	CU	62.8	62.8	pg/L	62.8
70362-45-7	PCB-45/51	CU	41.8	41.8	pg/L	41.8
41464-47-5	PCB-46	U	20.9	20.9	pg/L	20.9
70362-47-9	PCB-48	U	20.9	20.9	pg/L	20.9
41464-40-8	PCB-69/49	CU	41.8	41.8	pg/L	41.8
62796-65-0	PCB-50/53	CU	41.8	41.8	pg/L	41.8
35693-99-3	PCB-52	B	25.6	23.7	pg/L	20.9
15968-05-5	PCB-54	U	20.9	20.9	pg/L	20.9
74338-24-2	PCB-55	U	20.9	20.9	pg/L	20.9
41464-43-1	PCB-56	U	20.9	20.9	pg/L	20.9
70424-67-8	PCB-57	U	20.9	20.9	pg/L	20.9
41464-49-7	PCB-58	U	20.9	20.9	pg/L	20.9
74472-33-6	PCB-59/62/75	CU	62.8	62.8	pg/L	62.8
33025-41-1	PCB-60	U	20.9	20.9	pg/L	20.9
33284-53-6	PCB-61/76/70/74	CU	83.7	83.7	pg/L	83.7
74472-34-7	PCB-63	U	20.9	20.9	pg/L	20.9
52663-58-8	PCB-64	U	20.9	20.9	pg/L	20.9
32598-10-0	PCB-66	U	20.9	20.9	pg/L	20.9
73575-53-8	PCB-67	U	20.9	20.9	pg/L	20.9
73575-52-7	PCB-68	U	20.9	20.9	pg/L	20.9
41464-42-0	PCB-72	U	20.9	20.9	pg/L	20.9
74338-23-1	PCB-73	U	20.9	20.9	pg/L	20.9
32598-13-3	PCB-77	U	20.9	20.9	pg/L	20.9
70362-49-1	PCB-78	U	20.9	20.9	pg/L	20.9
41464-48-6	PCB-79	U	20.9	20.9	pg/L	20.9
33284-52-5	PCB-80	U	20.9	20.9	pg/L	20.9

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	20.9	20.9	pg/L	20.9
52663-62-4	PCB-82	U	20.9	20.9	pg/L	20.9
60145-20-2	PCB-83	U	20.9	20.9	pg/L	20.9
52663-60-2	PCB-84	U	20.9	20.9	pg/L	20.9
65510-45-4	PCB-117/116/85	CU	62.8	62.8	pg/L	62.8
55312-69-1	PCB-86/87/97/109/119/125	CU	126	126	pg/L	126
55215-17-3	PCB-88/91	CU	41.8	41.8	pg/L	41.8
73575-57-2	PCB-89	U	20.9	20.9	pg/L	20.9
68194-07-0	PCB-113/90/101	CU	62.8	62.8	pg/L	62.8
52663-61-3	PCB-92	U	20.9	20.9	pg/L	20.9
73575-56-1	PCB-93/100	CU	41.8	41.8	pg/L	41.8
73575-55-0	PCB-94	U	20.9	20.9	pg/L	20.9
38379-99-6	PCB-95	B	26.7	25.4	pg/L	20.9
73575-54-9	PCB-96	U	20.9	20.9	pg/L	20.9
60233-25-2	PCB-102/98	CU	41.8	41.8	pg/L	41.8
38380-01-7	PCB-99	U	105	105	pg/L	105
60145-21-3	PCB-103	U	20.9	20.9	pg/L	20.9
56558-16-8	PCB-104	U	20.9	20.9	pg/L	20.9
32598-14-4	PCB-105	U	105	105	pg/L	105
70424-69-0	PCB-106	U	20.9	20.9	pg/L	20.9
70424-68-9	PCB-107	U	20.9	20.9	pg/L	20.9
70362-41-3	PCB-108/124	CU	41.8	41.8	pg/L	41.8
38380-03-9	PCB-110/115	CU	41.8	41.8	pg/L	41.8
39635-32-0	PCB-111	U	20.9	20.9	pg/L	20.9
74472-36-9	PCB-112	U	20.9	20.9	pg/L	20.9
74472-37-0	PCB-114	U	20.9	20.9	pg/L	20.9
31508-00-6	PCB-118	B	23.5	22.2	pg/L	20.9
68194-12-7	PCB-120	U	20.9	20.9	pg/L	20.9
56558-18-0	PCB-121	U	20.9	20.9	pg/L	20.9
76842-07-4	PCB-122	U	20.9	20.9	pg/L	20.9
65510-44-3	PCB-123	U	105	105	pg/L	105
57465-28-8	PCB-126	U	20.9	20.9	pg/L	20.9

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	20.9	20.9	pg/L	20.9
38380-07-3	PCB-128/166	CU	41.8	41.8	pg/L	41.8
55215-18-4	PCB-138/163/129	CU	62.8	62.8	pg/L	62.8
52663-66-8	PCB-130	U	20.9	20.9	pg/L	20.9
61798-70-7	PCB-131	U	20.9	20.9	pg/L	20.9
38380-05-1	PCB-132	U	20.9	20.9	pg/L	20.9
35694-04-3	PCB-133	U	20.9	20.9	pg/L	20.9
52704-70-8	PCB-134	U	105	105	pg/L	105
52744-13-5	PCB-151/135	CU	41.8	41.8	pg/L	41.8
38411-22-2	PCB-136	U	20.9	20.9	pg/L	20.9
35694-06-5	PCB-137	U	20.9	20.9	pg/L	20.9
56030-56-9	PCB-139/140	CU	41.8	41.8	pg/L	41.8
52712-04-6	PCB-141	U	20.9	20.9	pg/L	20.9
41411-61-4	PCB-142	U	20.9	20.9	pg/L	20.9
68194-15-0	PCB-143	U	20.9	20.9	pg/L	20.9
68194-14-9	PCB-144	U	20.9	20.9	pg/L	20.9
74472-40-5	PCB-145	U	20.9	20.9	pg/L	20.9
51908-16-8	PCB-146	U	20.9	20.9	pg/L	20.9
68194-13-8	PCB-147/149	CU	46.3	41.8	pg/L	41.8
74472-41-6	PCB-148	U	20.9	20.9	pg/L	20.9
68194-08-1	PCB-150	U	20.9	20.9	pg/L	20.9
68194-09-2	PCB-152	U	20.9	20.9	pg/L	20.9
35065-27-1	PCB-153/168	BC	49.9	48.2	pg/L	41.8
60145-22-4	PCB-154	U	20.9	20.9	pg/L	20.9
33979-03-2	PCB-155	U	20.9	20.9	pg/L	20.9
38380-08-4	PCB-156/157	CU	41.8	41.8	pg/L	41.8
74472-42-7	PCB-158	U	20.9	20.9	pg/L	20.9
39635-35-3	PCB-159	U	20.9	20.9	pg/L	20.9
41411-62-5	PCB-160	U	20.9	20.9	pg/L	20.9
74472-43-8	PCB-161	U	20.9	20.9	pg/L	20.9
39635-34-2	PCB-162	U	20.9	20.9	pg/L	20.9
74472-45-0	PCB-164	U	20.9	20.9	pg/L	20.9

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	20.9	20.9	pg/L	20.9
52663-72-6	PCB-167	U	20.9	20.9	pg/L	20.9
32774-16-6	PCB-169	U	20.9	20.9	pg/L	20.9
35065-30-6	PCB-170	U	20.9	20.9	pg/L	20.9
52663-71-5	PCB-173/171	CU	41.8	41.8	pg/L	41.8
52663-74-8	PCB-172	U	20.9	20.9	pg/L	20.9
38411-25-5	PCB-174	U	20.9	20.9	pg/L	20.9
40186-70-7	PCB-175	U	20.9	20.9	pg/L	20.9
52663-65-7	PCB-176	U	20.9	20.9	pg/L	20.9
52663-70-4	PCB-177	U	20.9	20.9	pg/L	20.9
52663-67-9	PCB-178	U	20.9	20.9	pg/L	20.9
52663-64-6	PCB-179	U	20.9	20.9	pg/L	20.9
35065-29-3	PCB-193/180	CU	41.8	41.8	pg/L	41.8
74472-47-2	PCB-181	U	20.9	20.9	pg/L	20.9
60145-23-5	PCB-182	U	20.9	20.9	pg/L	20.9
52663-69-1	PCB-183/185	CU	41.8	41.8	pg/L	41.8
74472-48-3	PCB-184	U	20.9	20.9	pg/L	20.9
74472-49-4	PCB-186	U	20.9	20.9	pg/L	20.9
52663-68-0	PCB-187	U	20.9	20.9	pg/L	20.9
74487-85-7	PCB-188	U	20.9	20.9	pg/L	20.9
39635-31-9	PCB-189	U	20.9	20.9	pg/L	20.9
41411-64-7	PCB-190	U	20.9	20.9	pg/L	20.9
74472-50-7	PCB-191	U	20.9	20.9	pg/L	20.9
74472-51-8	PCB-192	U	20.9	20.9	pg/L	20.9
35694-08-7	PCB-194	U	20.9	20.9	pg/L	20.9
52663-78-2	PCB-195	U	20.9	20.9	pg/L	20.9
42740-50-1	PCB-196	U	20.9	20.9	pg/L	20.9
33091-17-7	PCB-197/200	CU	41.8	41.8	pg/L	41.8
68194-17-2	PCB-198/199	CU	41.8	41.8	pg/L	41.8
40186-71-8	PCB-201	U	20.9	20.9	pg/L	20.9
2136-99-4	PCB-202	U	20.9	20.9	pg/L	20.9
52663-76-0	PCB-203	U	20.9	20.9	pg/L	20.9

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	20.9	20.9	pg/L	20.9
74472-53-0	PCB-205	U	20.9	20.9	pg/L	20.9
40186-72-9	PCB-206	U	20.9	20.9	pg/L	20.9
52663-79-3	PCB-207	U	20.9	20.9	pg/L	20.9
52663-77-1	PCB-208	U	20.9	20.9	pg/L	20.9
2051-24-3	PCB-209	U	20.9	20.9	pg/L	20.9
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs	U	0	0	pg/L	
25429-29-2	Total Penta PCBs	U	0	0	pg/L	
26601-64-9	Total Hexa PCBs	U	0	0	pg/L	
28655-71-2	Total Hepta PCBs	U	0	0	pg/L	
55722-26-4	Total Octa PCBs	U	0	0	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners	U	0	0	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		836	2090	pg/L	40.0	(15%-150%)
13C-3-MoCB		1010	2090	pg/L	48.3	(15%-150%)
13C-4-DiCB		968	2090	pg/L	46.3	(25%-150%)
13C-15-DiCB		1560	2090	pg/L	74.7	(25%-150%)
13C-19-TrCB		1340	2090	pg/L	63.8	(25%-150%)
13C-37-TrCB		1900	2090	pg/L	90.7	(25%-150%)
13C-54-TeCB		1340	2090	pg/L	64.2	(25%-150%)
13C-77-TeCB		1880	2090	pg/L	89.9	(25%-150%)
13C-81-TeCB		1840	2090	pg/L	87.8	(25%-150%)
13C-104-PeCB		1360	2090	pg/L	64.9	(25%-150%)
13C-105-PeCB		1650	2090	pg/L	78.9	(25%-150%)
13C-114-PeCB		1570	2090	pg/L	75.2	(25%-150%)
13C-118-PeCB		1610	2090	pg/L	76.8	(25%-150%)
13C-123-PeCB		1700	2090	pg/L	81.3	(25%-150%)
13C-126-PeCB		1690	2090	pg/L	81.0	(25%-150%)
13C-155-HxCB		1640	2090	pg/L	78.6	(25%-150%)
13C-156-HxCB	C	3350	4180	pg/L	80.0	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1570	2090	pg/L	74.8	(25%-150%)
13C-169-HxCB		1980	2090	pg/L	94.6	(25%-150%)
13C-188-HpCB		1160	2090	pg/L	55.2	(25%-150%)
13C-189-HpCB		1260	2090	pg/L	60.3	(25%-150%)
13C-202-OcCB		1250	2090	pg/L	59.9	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3536	Client: LANL001	Project: LANL00109
Lab Sample ID: 2765001	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPWAT-11-11339		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/02/2011 05:00	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_2-7		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 955.9 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1830	2090	pg/L	87.3 (25%-150%)
13C-206-NoCB			2010	2090	pg/L	95.9 (25%-150%)
13C-208-NoCB			1500	2090	pg/L	71.7 (25%-150%)
13C-209-DeCB			1720	2090	pg/L	82.3 (25%-150%)
13C-28-TrCB			1560	2090	pg/L	74.5 (30%-135%)
13C-111-PeCB			1780	2090	pg/L	85.1 (30%-135%)
13C-178-HpCB			1960	2090	pg/L	93.7 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21	21	pg/L	21.0
2051-61-8	PCB-2	U	21	21	pg/L	21.0
2051-62-9	PCB-3	U	21	21	pg/L	21.0
13029-08-8	PCB-4	U	105	105	pg/L	105
16605-91-7	PCB-5	U	21	21	pg/L	21.0
25569-80-6	PCB-6	U	21	21	pg/L	21.0
33284-50-3	PCB-7	U	21	21	pg/L	21.0
34883-43-7	PCB-8	B	26.0	23.6	pg/L	21.0
34883-39-1	PCB-9	U	21	21	pg/L	21.0
33146-45-1	PCB-10	U	105	105	pg/L	105
2050-67-1	PCB-11	B	141	138	pg/L	105
2974-92-7	PCB-13/12	CU	42	42	pg/L	42.0
34883-41-5	PCB-14	U	21	21	pg/L	21.0
2050-68-2	PCB-15	U	21.7	21	pg/L	21.0
38444-78-9	PCB-16	U	105	105	pg/L	105
37680-66-3	PCB-17	U	21.7	21	pg/L	21.0
37680-65-2	PCB-18/30	CU	42	42	pg/L	42.0
38444-73-4	PCB-19	U	21	21	pg/L	21.0
38444-84-7	PCB-20/28	BC	80.4	79.5	pg/L	42.0
55702-46-0	PCB-21/33	CU	42	42	pg/L	42.0
38444-85-8	PCB-22	B	25.6	24.7	pg/L	21.0
55720-44-0	PCB-23	U	21	21	pg/L	21.0
55702-45-9	PCB-24	U	21	21	pg/L	21.0
55712-37-3	PCB-25	U	21	21	pg/L	21.0
38444-81-4	PCB-26/29	CU	42	42	pg/L	42.0
38444-76-7	PCB-27	U	21	21	pg/L	21.0
16606-02-3	PCB-31	B	52.0	51.2	pg/L	21.0
38444-77-8	PCB-32	U	21	21	pg/L	21.0
37680-68-5	PCB-34	U	21	21	pg/L	21.0
37680-69-6	PCB-35	U	21	21	pg/L	21.0
38444-87-0	PCB-36	U	21	21	pg/L	21.0
38444-90-5	PCB-37		31.0	30	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21	21	pg/L	21.0
38444-88-1	PCB-39	U	21	21	pg/L	21.0
38444-93-8	PCB-40/71	C	47.3	45.3	pg/L	42.0
52663-59-9	PCB-41	U	105	105	pg/L	105
36559-22-5	PCB-42	U	21	21	pg/L	21.0
70362-46-8	PCB-43	U	21	21	pg/L	21.0
41464-39-5	PCB-44/65/47	CU	63	63	pg/L	63.0
70362-45-7	PCB-45/51	CU	42	42	pg/L	42.0
41464-47-5	PCB-46	U	21	21	pg/L	21.0
70362-47-9	PCB-48	U	21	21	pg/L	21.0
41464-40-8	PCB-69/49	C	70.4	68.7	pg/L	42.0
62796-65-0	PCB-50/53	CU	42	42	pg/L	42.0
35693-99-3	PCB-52		283	281	pg/L	21.0
15968-05-5	PCB-54	U	21	21	pg/L	21.0
74338-24-2	PCB-55	U	21	21	pg/L	21.0
41464-43-1	PCB-56		77.4	76	pg/L	21.0
70424-67-8	PCB-57	U	21	21	pg/L	21.0
41464-49-7	PCB-58	U	21	21	pg/L	21.0
74472-33-6	PCB-59/62/75	CU	63	63	pg/L	63.0
33025-41-1	PCB-60		32.5	31.3	pg/L	21.0
33284-53-6	PCB-61/76/70/74	C	384	383	pg/L	84.0
74472-34-7	PCB-63	U	21	21	pg/L	21.0
52663-58-8	PCB-64		49.4	48.1	pg/L	21.0
32598-10-0	PCB-66		121	120	pg/L	21.0
73575-53-8	PCB-67	U	21	21	pg/L	21.0
73575-52-7	PCB-68	U	21	21	pg/L	21.0
41464-42-0	PCB-72	U	21	21	pg/L	21.0
74338-23-1	PCB-73	U	21	21	pg/L	21.0
32598-13-3	PCB-77		93.5	92.4	pg/L	21.0
70362-49-1	PCB-78	U	21	21	pg/L	21.0
41464-48-6	PCB-79	U	21	21	pg/L	21.0
33284-52-5	PCB-80	U	21	21	pg/L	21.0

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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21	21	pg/L	21.0
52663-62-4	PCB-82		188	186	pg/L	21.0
60145-20-2	PCB-83		70.7	69.2	pg/L	21.0
52663-60-2	PCB-84		390	388	pg/L	21.0
65510-45-4	PCB-117/116/85	C	278	276	pg/L	63.0
55312-69-1	PCB-86/87/97/109/119/125	C	1130	1120	pg/L	126
55215-17-3	PCB-88/91	C	145	144	pg/L	42.0
73575-57-2	PCB-89	U	21	21	pg/L	21.0
68194-07-0	PCB-113/90/101	C	1470	1470	pg/L	63.0
52663-61-3	PCB-92		250	248	pg/L	21.0
73575-56-1	PCB-93/100	CU	42	42	pg/L	42.0
73575-55-0	PCB-94	U	21	21	pg/L	21.0
38379-99-6	PCB-95		986	984	pg/L	21.0
73575-54-9	PCB-96	U	21	21	pg/L	21.0
60233-25-2	PCB-102/98	CU	42	42	pg/L	42.0
38380-01-7	PCB-99		531	530	pg/L	105
60145-21-3	PCB-103	U	21	21	pg/L	21.0
56558-16-8	PCB-104	U	21	21	pg/L	21.0
32598-14-4	PCB-105		765	764	pg/L	105
70424-69-0	PCB-106	U	21	21	pg/L	21.0
70424-68-9	PCB-107		96.9	95.4	pg/L	21.0
70362-41-3	PCB-108/124	C	68.2	66.9	pg/L	42.0
38380-03-9	PCB-110/115	CU	42	42	pg/L	42.0
39635-32-0	PCB-111	U	21	21	pg/L	21.0
74472-36-9	PCB-112	U	21	21	pg/L	21.0
74472-37-0	PCB-114		27.9	26.5	pg/L	21.0
31508-00-6	PCB-118		1650	1650	pg/L	21.0
68194-12-7	PCB-120	U	21	21	pg/L	21.0
56558-18-0	PCB-121	U	21	21	pg/L	21.0
76842-07-4	PCB-122		24.3	22.9	pg/L	21.0
65510-44-3	PCB-123	U	105	105	pg/L	105
57465-28-8	PCB-126		30.6	29.2	pg/L	21.0

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21	21	pg/L	21.0
38380-07-3	PCB-128/166	C	527	525	pg/L	42.0
55215-18-4	PCB-138/163/129	C	2950	2950	pg/L	63.0
52663-66-8	PCB-130		178	176	pg/L	21.0
61798-70-7	PCB-131		33.5	31.1	pg/L	21.0
38380-05-1	PCB-132		818	816	pg/L	21.0
35694-04-3	PCB-133		28.8	26.4	pg/L	21.0
52704-70-8	PCB-134		118	116	pg/L	105
52744-13-5	PCB-151/135	C	412	411	pg/L	42.0
38411-22-2	PCB-136		217	216	pg/L	21.0
35694-06-5	PCB-137		146	144	pg/L	21.0
56030-56-9	PCB-139/140	CU	42	42	pg/L	42.0
52712-04-6	PCB-141		444	441	pg/L	21.0
41411-61-4	PCB-142	U	21	21	pg/L	21.0
68194-15-0	PCB-143	U	21	21	pg/L	21.0
68194-14-9	PCB-144		69.9	68.6	pg/L	21.0
74472-40-5	PCB-145	U	21	21	pg/L	21.0
51908-16-8	PCB-146		342	339	pg/L	21.0
68194-13-8	PCB-147/149	C	1540	1530	pg/L	42.0
74472-41-6	PCB-148	U	21	21	pg/L	21.0
68194-08-1	PCB-150	U	21	21	pg/L	21.0
68194-09-2	PCB-152	U	21	21	pg/L	21.0
35065-27-1	PCB-153/168	C	1640	1640	pg/L	42.0
60145-22-4	PCB-154	U	21	21	pg/L	21.0
33979-03-2	PCB-155	U	21	21	pg/L	21.0
38380-08-4	PCB-156/157	C	429	427	pg/L	42.0
74472-42-7	PCB-158		336	335	pg/L	21.0
39635-35-3	PCB-159	U	21	21	pg/L	21.0
41411-62-5	PCB-160	U	21	21	pg/L	21.0
74472-43-8	PCB-161	U	21	21	pg/L	21.0
39635-34-2	PCB-162	U	21	21	pg/L	21.0
74472-45-0	PCB-164		221	219	pg/L	21.0

Comments:

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C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21	21	pg/L	21.0
52663-72-6	PCB-167		160	159	pg/L	21.0
32774-16-6	PCB-169	U	21	21	pg/L	21.0
35065-30-6	PCB-170		428	426	pg/L	21.0
52663-71-5	PCB-173/171	C	125	123	pg/L	42.0
52663-74-8	PCB-172		66.6	65.1	pg/L	21.0
38411-25-5	PCB-174		438	436	pg/L	21.0
40186-70-7	PCB-175	U	21	21	pg/L	21.0
52663-65-7	PCB-176		41.2	40.1	pg/L	21.0
52663-70-4	PCB-177		227	225	pg/L	21.0
52663-67-9	PCB-178		72.2	70.8	pg/L	21.0
52663-64-6	PCB-179		148	147	pg/L	21.0
35065-29-3	PCB-193/180	C	775	774	pg/L	42.0
74472-47-2	PCB-181	U	21	21	pg/L	21.0
60145-23-5	PCB-182	U	21	21	pg/L	21.0
52663-69-1	PCB-183/185	C	216	214	pg/L	42.0
74472-48-3	PCB-184	U	21	21	pg/L	21.0
74472-49-4	PCB-186	U	21	21	pg/L	21.0
52663-68-0	PCB-187		406	405	pg/L	21.0
74487-85-7	PCB-188	U	21	21	pg/L	21.0
39635-31-9	PCB-189	U	21	21	pg/L	21.0
41411-64-7	PCB-190		84.4	83.3	pg/L	21.0
74472-50-7	PCB-191	U	21	21	pg/L	21.0
74472-51-8	PCB-192	U	21	21	pg/L	21.0
35694-08-7	PCB-194		124	123	pg/L	21.0
52663-78-2	PCB-195		52.7	51.7	pg/L	21.0
42740-50-1	PCB-196		63.3	62.1	pg/L	21.0
33091-17-7	PCB-197/200	CU	42	42	pg/L	42.0
68194-17-2	PCB-198/199	C	149	147	pg/L	42.0
40186-71-8	PCB-201	U	21	21	pg/L	21.0
2136-99-4	PCB-202		25.1	24.1	pg/L	21.0
52663-76-0	PCB-203		81.5	80.3	pg/L	21.0

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21	21	pg/L	21.0
74472-53-0	PCB-205	U	21	21	pg/L	21.0
40186-72-9	PCB-206	U	21	21	pg/L	21.0
52663-79-3	PCB-207	U	21	21	pg/L	21.0
52663-77-1	PCB-208	U	21	21	pg/L	21.0
2051-24-3	PCB-209	U	21	21	pg/L	21.0
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs		31.0	30	pg/L	
26914-33-0	Total Tetra PCBs		1160	1150	pg/L	
25429-29-2	Total Penta PCBs		8100	8080	pg/L	
26601-64-9	Total Hexa PCBs		10600	10600	pg/L	
28655-71-2	Total Hepta PCBs		3030	3010	pg/L	
55722-26-4	Total Octa PCBs		496	489	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		23400	23300	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		463	2100	pg/L	22.0	(15%-150%)
13C-3-MoCB		617	2100	pg/L	29.4	(15%-150%)
13C-4-DiCB		609	2100	pg/L	29.0	(25%-150%)
13C-15-DiCB		888	2100	pg/L	42.3	(25%-150%)
13C-19-TrCB		883	2100	pg/L	42.0	(25%-150%)
13C-37-TrCB		956	2100	pg/L	45.5	(25%-150%)
13C-54-TeCB		810	2100	pg/L	38.6	(25%-150%)
13C-77-TeCB		839	2100	pg/L	40.0	(25%-150%)
13C-81-TeCB		839	2100	pg/L	39.9	(25%-150%)
13C-104-PeCB		810	2100	pg/L	38.5	(25%-150%)
13C-105-PeCB		812	2100	pg/L	38.7	(25%-150%)
13C-114-PeCB		785	2100	pg/L	37.4	(25%-150%)
13C-118-PeCB		795	2100	pg/L	37.9	(25%-150%)
13C-123-PeCB		842	2100	pg/L	40.1	(25%-150%)
13C-126-PeCB		772	2100	pg/L	36.8	(25%-150%)
13C-155-HxCB		883	2100	pg/L	42.1	(25%-150%)
13C-156-HxCB	C	1500	4200	pg/L	35.7	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		730	2100	pg/L	34.8	(25%-150%)
13C-169-HxCB		932	2100	pg/L	44.4	(25%-150%)
13C-188-HpCB		591	2100	pg/L	28.2	(25%-150%)
13C-189-HpCB		582	2100	pg/L	27.7	(25%-150%)
13C-202-OcCB		594	2100	pg/L	28.3	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763002	Date Collected: 09/07/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10857		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/01/2011 19:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a-10		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 952.3 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			859	2100	pg/L	40.9 (25%-150%)
13C-206-NoCB			946	2100	pg/L	45.0 (25%-150%)
13C-208-NoCB			689	2100	pg/L	32.8 (25%-150%)
13C-209-DeCB			821	2100	pg/L	39.1 (25%-150%)
13C-28-TrCB			1850	2100	pg/L	88.0 (30%-135%)
13C-111-PeCB			1950	2100	pg/L	92.7 (30%-135%)
13C-178-HpCB			2040	2100	pg/L	97.3 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.4	21.4	pg/L	21.4
2051-61-8	PCB-2	U	21.4	21.4	pg/L	21.4
2051-62-9	PCB-3	U	21.4	21.4	pg/L	21.4
13029-08-8	PCB-4	U	107	107	pg/L	107
16605-91-7	PCB-5	U	21.4	21.4	pg/L	21.4
25569-80-6	PCB-6	U	21.4	21.4	pg/L	21.4
33284-50-3	PCB-7	U	21.4	21.4	pg/L	21.4
34883-43-7	PCB-8	U	21.4	21.4	pg/L	21.4
34883-39-1	PCB-9	U	21.4	21.4	pg/L	21.4
33146-45-1	PCB-10	U	107	107	pg/L	107
2050-67-1	PCB-11	U	107	107	pg/L	107
2974-92-7	PCB-13/12	CU	42.8	42.8	pg/L	42.8
34883-41-5	PCB-14	U	21.4	21.4	pg/L	21.4
2050-68-2	PCB-15	U	21.4	21.4	pg/L	21.4
38444-78-9	PCB-16	U	107	107	pg/L	107
37680-66-3	PCB-17	U	21.4	21.4	pg/L	21.4
37680-65-2	PCB-18/30	CU	42.8	42.8	pg/L	42.8
38444-73-4	PCB-19	U	21.4	21.4	pg/L	21.4
38444-84-7	PCB-20/28	CU	42.8	42.8	pg/L	42.8
55702-46-0	PCB-21/33	CU	42.8	42.8	pg/L	42.8
38444-85-8	PCB-22	U	21.4	21.4	pg/L	21.4
55720-44-0	PCB-23	U	21.4	21.4	pg/L	21.4
55702-45-9	PCB-24	U	21.4	21.4	pg/L	21.4
55712-37-3	PCB-25	U	21.4	21.4	pg/L	21.4
38444-81-4	PCB-26/29	CU	42.8	42.8	pg/L	42.8
38444-76-7	PCB-27	U	21.4	21.4	pg/L	21.4
16606-02-3	PCB-31	U	21.4	21.4	pg/L	21.4
38444-77-8	PCB-32	U	21.4	21.4	pg/L	21.4
37680-68-5	PCB-34	U	21.4	21.4	pg/L	21.4
37680-69-6	PCB-35	U	21.4	21.4	pg/L	21.4
38444-87-0	PCB-36	U	21.4	21.4	pg/L	21.4
38444-90-5	PCB-37	U	21.4	21.4	pg/L	21.4

Comments:

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- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.4	21.4	pg/L	21.4
38444-88-1	PCB-39	U	21.4	21.4	pg/L	21.4
38444-93-8	PCB-40/71	CU	42.8	42.8	pg/L	42.8
52663-59-9	PCB-41	U	107	107	pg/L	107
36559-22-5	PCB-42	U	21.4	21.4	pg/L	21.4
70362-46-8	PCB-43	U	21.4	21.4	pg/L	21.4
41464-39-5	PCB-44/65/47	CU	64.1	64.1	pg/L	64.1
70362-45-7	PCB-45/51	CU	42.8	42.8	pg/L	42.8
41464-47-5	PCB-46	U	21.4	21.4	pg/L	21.4
70362-47-9	PCB-48	U	21.4	21.4	pg/L	21.4
41464-40-8	PCB-69/49	CU	42.8	42.8	pg/L	42.8
62796-65-0	PCB-50/53	CU	42.8	42.8	pg/L	42.8
35693-99-3	PCB-52	B	83.4	81.5	pg/L	21.4
15968-05-5	PCB-54	U	21.4	21.4	pg/L	21.4
74338-24-2	PCB-55	U	21.4	21.4	pg/L	21.4
41464-43-1	PCB-56	U	21.4	21.4	pg/L	21.4
70424-67-8	PCB-57	U	21.4	21.4	pg/L	21.4
41464-49-7	PCB-58	U	21.4	21.4	pg/L	21.4
74472-33-6	PCB-59/62/75	CU	64.1	64.1	pg/L	64.1
33025-41-1	PCB-60	U	21.4	21.4	pg/L	21.4
33284-53-6	PCB-61/76/70/74	C	88.4	87.1	pg/L	85.5
74472-34-7	PCB-63	U	21.4	21.4	pg/L	21.4
52663-58-8	PCB-64	U	21.4	21.4	pg/L	21.4
32598-10-0	PCB-66	B	24.2	23.1	pg/L	21.4
73575-53-8	PCB-67	U	21.4	21.4	pg/L	21.4
73575-52-7	PCB-68	U	21.4	21.4	pg/L	21.4
41464-42-0	PCB-72	U	21.4	21.4	pg/L	21.4
74338-23-1	PCB-73	U	21.4	21.4	pg/L	21.4
32598-13-3	PCB-77	U	21.4	21.4	pg/L	21.4
70362-49-1	PCB-78	U	21.4	21.4	pg/L	21.4
41464-48-6	PCB-79	U	21.4	21.4	pg/L	21.4
33284-52-5	PCB-80	U	21.4	21.4	pg/L	21.4

Comments:

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C Congener has coeluters. When Cxxx, refer to congener number xxx for data
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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.4	21.4	pg/L	21.4
52663-62-4	PCB-82		37.1	35.7	pg/L	21.4
60145-20-2	PCB-83	U	21.4	21.4	pg/L	21.4
52663-60-2	PCB-84		83.1	81.4	pg/L	21.4
65510-45-4	PCB-117/116/85	CU	64.1	64.1	pg/L	64.1
55312-69-1	PCB-86/87/97/109/119/125	C	232	231	pg/L	128
55215-17-3	PCB-88/91	CU	42.8	42.8	pg/L	42.8
73575-57-2	PCB-89	U	21.4	21.4	pg/L	21.4
68194-07-0	PCB-113/90/101	C	345	344	pg/L	64.1
52663-61-3	PCB-92		61.4	60.1	pg/L	21.4
73575-56-1	PCB-93/100	CU	42.8	42.8	pg/L	42.8
73575-55-0	PCB-94	U	21.4	21.4	pg/L	21.4
38379-99-6	PCB-95		235	233	pg/L	21.4
73575-54-9	PCB-96	U	21.4	21.4	pg/L	21.4
60233-25-2	PCB-102/98	CU	42.8	42.8	pg/L	42.8
38380-01-7	PCB-99		125	124	pg/L	107
60145-21-3	PCB-103	U	21.4	21.4	pg/L	21.4
56558-16-8	PCB-104	U	21.4	21.4	pg/L	21.4
32598-14-4	PCB-105		144	143	pg/L	107
70424-69-0	PCB-106	U	21.4	21.4	pg/L	21.4
70424-68-9	PCB-107		26.3	24.8	pg/L	21.4
70362-41-3	PCB-108/124	CU	42.8	42.8	pg/L	42.8
38380-03-9	PCB-110/115	CU	42.8	42.8	pg/L	42.8
39635-32-0	PCB-111	U	21.4	21.4	pg/L	21.4
74472-36-9	PCB-112	U	21.4	21.4	pg/L	21.4
74472-37-0	PCB-114	U	21.4	21.4	pg/L	21.4
31508-00-6	PCB-118		326	325	pg/L	21.4
68194-12-7	PCB-120	U	21.4	21.4	pg/L	21.4
56558-18-0	PCB-121	U	21.4	21.4	pg/L	21.4
76842-07-4	PCB-122	U	21.4	21.4	pg/L	21.4
65510-44-3	PCB-123	U	107	107	pg/L	107
57465-28-8	PCB-126	U	21.4	21.4	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.4	21.4	pg/L	21.4
38380-07-3	PCB-128/166	C	130	128	pg/L	42.8
55215-18-4	PCB-138/163/129	C	810	808	pg/L	64.1
52663-66-8	PCB-130		49.9	47.5	pg/L	21.4
61798-70-7	PCB-131	U	21.4	21.4	pg/L	21.4
38380-05-1	PCB-132		241	239	pg/L	21.4
35694-04-3	PCB-133	U	21.4	21.4	pg/L	21.4
52704-70-8	PCB-134	U	107	107	pg/L	107
52744-13-5	PCB-151/135	C	197	195	pg/L	42.8
38411-22-2	PCB-136		66.5	65.4	pg/L	21.4
35694-06-5	PCB-137		39.5	37.5	pg/L	21.4
56030-56-9	PCB-139/140	CU	42.8	42.8	pg/L	42.8
52712-04-6	PCB-141		149	147	pg/L	21.4
41411-61-4	PCB-142	U	21.4	21.4	pg/L	21.4
68194-15-0	PCB-143	U	21.4	21.4	pg/L	21.4
68194-14-9	PCB-144		25.4	24	pg/L	21.4
74472-40-5	PCB-145	U	21.4	21.4	pg/L	21.4
51908-16-8	PCB-146		110	108	pg/L	21.4
68194-13-8	PCB-147/149	C	551	544	pg/L	42.8
74472-41-6	PCB-148	U	21.4	21.4	pg/L	21.4
68194-08-1	PCB-150	U	21.4	21.4	pg/L	21.4
68194-09-2	PCB-152	U	21.4	21.4	pg/L	21.4
35065-27-1	PCB-153/168	C	530	528	pg/L	42.8
60145-22-4	PCB-154	U	21.4	21.4	pg/L	21.4
33979-03-2	PCB-155	U	21.4	21.4	pg/L	21.4
38380-08-4	PCB-156/157	C	83.8	82.3	pg/L	42.8
74472-42-7	PCB-158		87.6	85.7	pg/L	21.4
39635-35-3	PCB-159	U	21.4	21.4	pg/L	21.4
41411-62-5	PCB-160	U	21.4	21.4	pg/L	21.4
74472-43-8	PCB-161	U	21.4	21.4	pg/L	21.4
39635-34-2	PCB-162	U	21.4	21.4	pg/L	21.4
74472-45-0	PCB-164		67.0	64.9	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.4	21.4	pg/L	21.4
52663-72-6	PCB-167		35.5	34.3	pg/L	21.4
32774-16-6	PCB-169	U	21.4	21.4	pg/L	21.4
35065-30-6	PCB-170		159	158	pg/L	21.4
52663-71-5	PCB-173/171	C	53.4	51.8	pg/L	42.8
52663-74-8	PCB-172		30.0	28.5	pg/L	21.4
38411-25-5	PCB-174		206	204	pg/L	21.4
40186-70-7	PCB-175	U	21.4	21.4	pg/L	21.4
52663-65-7	PCB-176	U	21.4	21.4	pg/L	21.4
52663-70-4	PCB-177		98.8	97.3	pg/L	21.4
52663-67-9	PCB-178		35.0	33.5	pg/L	21.4
52663-64-6	PCB-179		63.3	62.2	pg/L	21.4
35065-29-3	PCB-193/180	C	346	345	pg/L	42.8
74472-47-2	PCB-181	U	21.4	21.4	pg/L	21.4
60145-23-5	PCB-182	U	21.4	21.4	pg/L	21.4
52663-69-1	PCB-183/185	C	100	99	pg/L	42.8
74472-48-3	PCB-184	U	21.4	21.4	pg/L	21.4
74472-49-4	PCB-186	U	21.4	21.4	pg/L	21.4
52663-68-0	PCB-187		187	185	pg/L	21.4
74487-85-7	PCB-188	U	21.4	21.4	pg/L	21.4
39635-31-9	PCB-189	U	21.4	21.4	pg/L	21.4
41411-64-7	PCB-190		33.0	31.9	pg/L	21.4
74472-50-7	PCB-191	U	21.4	21.4	pg/L	21.4
74472-51-8	PCB-192	U	21.4	21.4	pg/L	21.4
35694-08-7	PCB-194		62.3	61.4	pg/L	21.4
52663-78-2	PCB-195		28.0	27	pg/L	21.4
42740-50-1	PCB-196		30.7	29.4	pg/L	21.4
33091-17-7	PCB-197/200	CU	42.8	42.8	pg/L	42.8
68194-17-2	PCB-198/199	C	73.9	72.7	pg/L	42.8
40186-71-8	PCB-201	U	21.4	21.4	pg/L	21.4
2136-99-4	PCB-202	U	21.4	21.4	pg/L	21.4
52663-76-0	PCB-203		40.2	39.1	pg/L	21.4

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.4	21.4	pg/L	21.4
74472-53-0	PCB-205	U	21.4	21.4	pg/L	21.4
40186-72-9	PCB-206	U	21.4	21.4	pg/L	21.4
52663-79-3	PCB-207	U	21.4	21.4	pg/L	21.4
52663-77-1	PCB-208	U	21.4	21.4	pg/L	21.4
2051-24-3	PCB-209	U	21.4	21.4	pg/L	21.4
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		88.4	87.1	pg/L	
25429-29-2	Total Penta PCBs		1620	1600	pg/L	
26601-64-9	Total Hexa PCBs		3170	3140	pg/L	
28655-71-2	Total Hepta PCBs		1310	1300	pg/L	
55722-26-4	Total Octa PCBs		235	230	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		6420	6350	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1020	2140	pg/L	47.6	(15%-150%)
13C-3-MoCB		1280	2140	pg/L	59.8	(15%-150%)
13C-4-DiCB		1110	2140	pg/L	52.0	(25%-150%)
13C-15-DiCB		1850	2140	pg/L	86.7	(25%-150%)
13C-19-TrCB		1640	2140	pg/L	76.7	(25%-150%)
13C-37-TrCB		2000	2140	pg/L	93.7	(25%-150%)
13C-54-TeCB		1320	2140	pg/L	61.6	(25%-150%)
13C-77-TeCB		2040	2140	pg/L	95.4	(25%-150%)
13C-81-TeCB		1890	2140	pg/L	88.3	(25%-150%)
13C-104-PeCB		1460	2140	pg/L	68.1	(25%-150%)
13C-105-PeCB		1760	2140	pg/L	82.3	(25%-150%)
13C-114-PeCB		1690	2140	pg/L	79.2	(25%-150%)
13C-118-PeCB		1700	2140	pg/L	79.5	(25%-150%)
13C-123-PeCB		1810	2140	pg/L	84.7	(25%-150%)
13C-126-PeCB		1750	2140	pg/L	81.8	(25%-150%)
13C-155-HxCB		1690	2140	pg/L	79.1	(25%-150%)
13C-156-HxCB	C	3220	4280	pg/L	75.2	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1540	2140	pg/L	72.0	(25%-150%)
13C-169-HxCB		1850	2140	pg/L	86.5	(25%-150%)
13C-188-HpCB		1330	2140	pg/L	62.3	(25%-150%)
13C-189-HpCB		1270	2140	pg/L	59.2	(25%-150%)
13C-202-OcCB		1380	2140	pg/L	64.5	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3537	Client: LANL001	Project: LANL00109
Lab Sample ID: 2763001	Date Collected: 09/01/2011 12:00	Matrix: WT
Client Sample: 1668 Water	Date Received: 09/13/2011 09:44	
Client ID: WT_IPMOR-11-10941		Prep Basis: As Received
Batch ID: 19589	Method: EPA Method 1668A	
Run Date: 10/04/2011 21:40	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-11		Dilution: 1
Prep Batch: 19571	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 14-SEP-11	Aliquot: 935.5 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery%
						Acceptable Limits
13C-205-OcCB			1840	2140	pg/L	86.2 (25%-150%)
13C-206-NoCB			2010	2140	pg/L	93.8 (25%-150%)
13C-208-NoCB			1560	2140	pg/L	73.1 (25%-150%)
13C-209-DeCB			1330	2140	pg/L	62.4 (25%-150%)
13C-28-TrCB			1440	2140	pg/L	67.4 (30%-135%)
13C-111-PeCB			1870	2140	pg/L	87.7 (30%-135%)
13C-178-HpCB			1950	2140	pg/L	91.0 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3572
Lab Sample ID: 2774001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10623
Batch ID: 19628
Run Date: 10/13/2011 06:47
Data File: c12oct11a_2-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/07/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 941.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	212	212	pg/L	212
2051-61-8	PCB-2	U	212	212	pg/L	212
2051-62-9	PCB-3	U	212	212	pg/L	212
13029-08-8	PCB-4	U	1060	1060	pg/L	1060
16605-91-7	PCB-5	U	212	212	pg/L	212
25569-80-6	PCB-6	U	212	212	pg/L	212
33284-50-3	PCB-7	U	212	212	pg/L	212
34883-43-7	PCB-8	U	212	212	pg/L	212
34883-39-1	PCB-9	U	212	212	pg/L	212
33146-45-1	PCB-10	U	1060	1060	pg/L	1060
2050-67-1	PCB-11	U	1060	1060	pg/L	1060
2974-92-7	PCB-13/12	CU	425	425	pg/L	425
34883-41-5	PCB-14	U	212	212	pg/L	212
2050-68-2	PCB-15	U	212	212	pg/L	212
38444-78-9	PCB-16	U	1060	1060	pg/L	1060
37680-66-3	PCB-17	U	212	212	pg/L	212
37680-65-2	PCB-18/30	CU	425	425	pg/L	425
38444-73-4	PCB-19	U	212	212	pg/L	212
38444-84-7	PCB-20/28	CU	425	425	pg/L	425
55702-46-0	PCB-21/33	CU	425	425	pg/L	425
38444-85-8	PCB-22	U	212	212	pg/L	212
55720-44-0	PCB-23	U	212	212	pg/L	212
55702-45-9	PCB-24	U	212	212	pg/L	212
55712-37-3	PCB-25	U	212	212	pg/L	212
38444-81-4	PCB-26/29	CU	425	425	pg/L	425
38444-76-7	PCB-27	U	212	212	pg/L	212
16606-02-3	PCB-31	U	212	212	pg/L	212
38444-77-8	PCB-32	U	212	212	pg/L	212
37680-68-5	PCB-34	U	212	212	pg/L	212
37680-69-6	PCB-35	U	212	212	pg/L	212
38444-87-0	PCB-36	U	212	212	pg/L	212
38444-90-5	PCB-37		430	429	pg/L	212

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3572
Lab Sample ID: 2774001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10623
Batch ID: 19628
Run Date: 10/13/2011 06:47
Data File: c12oct11a_2-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/07/2011 12:00
Date Received: 09/15/2011 10:21
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 941.4 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	212	212	pg/L	212
38444-88-1	PCB-39	U	212	212	pg/L	212
38444-93-8	PCB-40/71	C	1690	1690	pg/L	425
52663-59-9	PCB-41	U	1060	1060	pg/L	1060
36559-22-5	PCB-42		529	527	pg/L	212
70362-46-8	PCB-43	U	212	212	pg/L	212
41464-39-5	PCB-44/65/47	C	9730	9730	pg/L	637
70362-45-7	PCB-45/51	CU	425	425	pg/L	425
41464-47-5	PCB-46	U	212	212	pg/L	212
70362-47-9	PCB-48	U	212	212	pg/L	212
41464-40-8	PCB-69/49	C	3140	3140	pg/L	425
62796-65-0	PCB-50/53	CU	425	425	pg/L	425
35693-99-3	PCB-52		21900	21900	pg/L	212
15968-05-5	PCB-54	U	212	212	pg/L	212
74338-24-2	PCB-55	U	212	212	pg/L	212
41464-43-1	PCB-56		4850	4850	pg/L	212
70424-67-8	PCB-57	U	212	212	pg/L	212
41464-49-7	PCB-58	U	212	212	pg/L	212
74472-33-6	PCB-59/62/75	CU	637	637	pg/L	637
33025-41-1	PCB-60		1280	1280	pg/L	212
33284-53-6	PCB-61/76/70/74	C	39900	39900	pg/L	850
74472-34-7	PCB-63		218	217	pg/L	212
52663-58-8	PCB-64		2740	2740	pg/L	212
32598-10-0	PCB-66		7460	7460	pg/L	212
73575-53-8	PCB-67		324	323	pg/L	212
73575-52-7	PCB-68	U	212	212	pg/L	212
41464-42-0	PCB-72	U	212	212	pg/L	212
74338-23-1	PCB-73	U	212	212	pg/L	212
32598-13-3	PCB-77		10800	10800	pg/L	212
70362-49-1	PCB-78	U	212	212	pg/L	212
41464-48-6	PCB-79		884	883	pg/L	212
33284-52-5	PCB-80	U	212	212	pg/L	212

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3572
 Lab Sample ID: 2774001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10623
 Batch ID: 19628
 Run Date: 10/13/2011 06:47
 Data File: c12oct11a_2-9
 Prep Batch: 19612
 Prep Date: 20-SEP-11

Client: LANL001
 Date Collected: 09/07/2011 12:00
 Date Received: 09/15/2011 10:21
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 941.4 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 10
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	212	212	pg/L	212
52663-62-4	PCB-82		19100	19100	pg/L	212
60145-20-2	PCB-83		6090	6090	pg/L	212
52663-60-2	PCB-84		37100	37100	pg/L	212
65510-45-4	PCB-117/116/85	C	21800	21800	pg/L	637
55312-69-1	PCB-86/87/97/109/119/125	C	111000	111000	pg/L	1270
55215-17-3	PCB-88/91	C	10500	10500	pg/L	425
73575-57-2	PCB-89		722	721	pg/L	212
68194-07-0	PCB-113/90/101	C	134000	134000	pg/L	637
52663-61-3	PCB-92		19600	19600	pg/L	212
73575-56-1	PCB-93/100	CU	425	425	pg/L	425
73575-55-0	PCB-94		226	224	pg/L	212
38379-99-6	PCB-95		71700	71700	pg/L	212
73575-54-9	PCB-96		226	225	pg/L	212
60233-25-2	PCB-102/98	C	1550	1540	pg/L	425
38380-01-7	PCB-99		44900	44900	pg/L	1060
60145-21-3	PCB-103		261	260	pg/L	212
56558-16-8	PCB-104	U	212	212	pg/L	212
32598-14-4	PCB-105		71800	71800	pg/L	1060
70424-69-0	PCB-106	U	212	212	pg/L	212
70424-68-9	PCB-107		15500	15500	pg/L	212
70362-41-3	PCB-108/124	C	8160	8160	pg/L	425
38380-03-9	PCB-110/115	CU	425	425	pg/L	425
39635-32-0	PCB-111	U	212	212	pg/L	212
74472-36-9	PCB-112	U	212	212	pg/L	212
74472-37-0	PCB-114		2760	2760	pg/L	212
31508-00-6	PCB-118		167000	167000	pg/L	212
68194-12-7	PCB-120		238	237	pg/L	212
56558-18-0	PCB-121	U	212	212	pg/L	212
76842-07-4	PCB-122		1780	1780	pg/L	212
65510-44-3	PCB-123		2080	2080	pg/L	1060
57465-28-8	PCB-126		3670	3670	pg/L	212

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

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SDG Number: 11-3572
Lab Sample ID: 2774001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10623
Batch ID: 19628
Run Date: 10/13/2011 06:47
Data File: c12oct11a_2-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/07/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 941.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	212	212	pg/L	212
38380-07-3	PCB-128/166	C	47600	47600	pg/L	425
55215-18-4	PCB-138/163/129	C	229000	229000	pg/L	637
52663-66-8	PCB-130		14800	14800	pg/L	212
61798-70-7	PCB-131		3290	3290	pg/L	212
38380-05-1	PCB-132		85300	85300	pg/L	212
35694-04-3	PCB-133		2080	2080	pg/L	212
52704-70-8	PCB-134		10800	10800	pg/L	1060
52744-13-5	PCB-151/135	C	38100	38100	pg/L	425
38411-22-2	PCB-136		14600	14600	pg/L	212
35694-06-5	PCB-137		12900	12900	pg/L	212
56030-56-9	PCB-139/140	C	4030	4030	pg/L	425
52712-04-6	PCB-141		40000	40000	pg/L	212
41411-61-4	PCB-142	U	212	212	pg/L	212
68194-15-0	PCB-143	U	212	212	pg/L	212
68194-14-9	PCB-144		5890	5890	pg/L	212
74472-40-5	PCB-145	U	212	212	pg/L	212
51908-16-8	PCB-146		26700	26700	pg/L	212
68194-13-8	PCB-147/149	C	141000	141000	pg/L	425
74472-41-6	PCB-148	U	212	212	pg/L	212
68194-08-1	PCB-150	U	212	212	pg/L	212
68194-09-2	PCB-152	U	212	212	pg/L	212
35065-27-1	PCB-153/168	C	130000	130000	pg/L	425
60145-22-4	PCB-154		1250	1250	pg/L	212
33979-03-2	PCB-155	U	212	212	pg/L	212
38380-08-4	PCB-156/157	C	31600	31600	pg/L	425
74472-42-7	PCB-158		30900	30900	pg/L	212
39635-35-3	PCB-159	U	212	212	pg/L	212
41411-62-5	PCB-160	U	212	212	pg/L	212
74472-43-8	PCB-161	U	212	212	pg/L	212
39635-34-2	PCB-162		874	873	pg/L	212
74472-45-0	PCB-164		19300	19200	pg/L	212

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3572
Lab Sample ID: 2774001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10623
Batch ID: 19628
Run Date: 10/13/2011 06:47
Data File: c12oct11a_2-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/07/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 941.4 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 10
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	212	212	pg/L	212
52663-72-6	PCB-167		11400	11400	pg/L	212
32774-16-6	PCB-169	U	212	212	pg/L	212
35065-30-6	PCB-170		22600	22600	pg/L	212
52663-71-5	PCB-173/171	C	6950	6940	pg/L	425
52663-74-8	PCB-172		3110	3110	pg/L	212
38411-25-5	PCB-174		19200	19200	pg/L	212
40186-70-7	PCB-175		607	606	pg/L	212
52663-65-7	PCB-176		1520	1510	pg/L	212
52663-70-4	PCB-177		9320	9320	pg/L	212
52663-67-9	PCB-178		1970	1970	pg/L	212
52663-64-6	PCB-179		3990	3990	pg/L	212
35065-29-3	PCB-193/180	C	35900	35900	pg/L	425
74472-47-2	PCB-181		387	385	pg/L	212
60145-23-5	PCB-182	U	212	212	pg/L	212
52663-69-1	PCB-183/185	C	8900	8900	pg/L	425
74472-48-3	PCB-184	U	212	212	pg/L	212
74472-49-4	PCB-186	U	212	212	pg/L	212
52663-68-0	PCB-187		12100	12100	pg/L	212
74487-85-7	PCB-188	U	212	212	pg/L	212
39635-31-9	PCB-189		900	899	pg/L	212
41411-64-7	PCB-190		3480	3480	pg/L	212
74472-50-7	PCB-191		788	786	pg/L	212
74472-51-8	PCB-192	U	212	212	pg/L	212
35694-08-7	PCB-194		2570	2570	pg/L	212
52663-78-2	PCB-195		1140	1140	pg/L	212
42740-50-1	PCB-196		1370	1360	pg/L	212
33091-17-7	PCB-197/200	CU	425	425	pg/L	425
68194-17-2	PCB-198/199	C	2300	2300	pg/L	425
40186-71-8	PCB-201		229	228	pg/L	212
2136-99-4	PCB-202		331	330	pg/L	212
52663-76-0	PCB-203		1580	1580	pg/L	212

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3572	Client: LANL001	Project: LANL00109
Lab Sample ID: 2774001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPSAN-11-10623		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 06:47	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_2-9		Dilution: 10
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 941.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	212	212	pg/L	212
74472-53-0	PCB-205	U	212	212	pg/L	212
40186-72-9	PCB-206		377	376	pg/L	212
52663-79-3	PCB-207	U	212	212	pg/L	212
52663-77-1	PCB-208	U	212	212	pg/L	212
2051-24-3	PCB-209	U	212	212	pg/L	212
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs		430	429	pg/L	
26914-33-0	Total Tetra PCBs		105000	105000	pg/L	
25429-29-2	Total Penta PCBs		752000	752000	pg/L	
26601-64-9	Total Hexa PCBs		901000	901000	pg/L	
28655-71-2	Total Hepta PCBs		132000	132000	pg/L	
55722-26-4	Total Octa PCBs		9520	9510	pg/L	
53742-07-7	Total Nona PCBs		377	376	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		1900000	1900000	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1270	2120	pg/L	59.8	(15%-150%)
13C-3-MoCB		1520	2120	pg/L	71.5	(15%-150%)
13C-4-DiCB		1580	2120	pg/L	74.6	(25%-150%)
13C-15-DiCB		1660	2120	pg/L	78.2	(25%-150%)
13C-19-TrCB		1930	2120	pg/L	90.7	(25%-150%)
13C-37-TrCB		1820	2120	pg/L	85.7	(25%-150%)
13C-54-TeCB		1650	2120	pg/L	77.7	(25%-150%)
13C-77-TeCB		1700	2120	pg/L	80.0	(25%-150%)
13C-81-TeCB		1700	2120	pg/L	79.8	(25%-150%)
13C-104-PeCB		1580	2120	pg/L	74.6	(25%-150%)
13C-105-PeCB		1440	2120	pg/L	68.0	(25%-150%)
13C-114-PeCB		1380	2120	pg/L	65.0	(25%-150%)
13C-118-PeCB		1390	2120	pg/L	65.4	(25%-150%)
13C-123-PeCB		1480	2120	pg/L	69.6	(25%-150%)
13C-126-PeCB		1460	2120	pg/L	68.6	(25%-150%)
13C-155-HxCB		2180	2120	pg/L	102	(25%-150%)
13C-156-HxCB	C	3390	4250	pg/L	79.7	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1570	2120	pg/L	74.0	(25%-150%)
13C-169-HxCB		2000	2120	pg/L	94.0	(25%-150%)
13C-188-HpCB		1150	2120	pg/L	54.2	(25%-150%)
13C-189-HpCB		1280	2120	pg/L	60.0	(25%-150%)
13C-202-OcCB		1250	2120	pg/L	59.0	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3572	Client: LANL001	Project: LANL00109
Lab Sample ID: 2774001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPSAN-11-10623		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 06:47	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_2-9		Dilution: 10
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 941.4 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1940	2120	pg/L	91.2 (25%-150%)
13C-206-NoCB			2110	2120	pg/L	99.5 (25%-150%)
13C-208-NoCB			1590	2120	pg/L	75.0 (25%-150%)
13C-209-DeCB			1930	2120	pg/L	90.9 (25%-150%)
13C-28-TrCB			1780	2120	pg/L	83.7 (30%-135%)
13C-111-PeCB			1710	2120	pg/L	80.6 (30%-135%)
13C-178-HpCB			1940	2120	pg/L	91.1 (30%-135%)

Comments:
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3572
 Lab Sample ID: 2774002
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10663
 Batch ID: 19628
 Run Date: 10/04/2011 19:28
 Data File: c04oct11a-9
 Prep Batch: 19612
 Prep Date: 20-SEP-11

Client: LANL001
 Date Collected: 09/01/2011 12:00
 Date Received: 09/15/2011 10:21
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 949 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.1	21.1	pg/L	21.1
2051-61-8	PCB-2	U	21.1	21.1	pg/L	21.1
2051-62-9	PCB-3	U	21.1	21.1	pg/L	21.1
13029-08-8	PCB-4	U	105	105	pg/L	105
16605-91-7	PCB-5	U	21.1	21.1	pg/L	21.1
25569-80-6	PCB-6	U	21.1	21.1	pg/L	21.1
33284-50-3	PCB-7	U	21.1	21.1	pg/L	21.1
34883-43-7	PCB-8		31.0	28.7	pg/L	21.1
34883-39-1	PCB-9	U	21.1	21.1	pg/L	21.1
33146-45-1	PCB-10	U	105	105	pg/L	105
2050-67-1	PCB-11	U	105	105	pg/L	105
2974-92-7	PCB-13/12	CU	42.1	42.1	pg/L	42.1
34883-41-5	PCB-14	U	21.1	21.1	pg/L	21.1
2050-68-2	PCB-15		27.4	25.1	pg/L	21.1
38444-78-9	PCB-16	U	105	105	pg/L	105
37680-66-3	PCB-17	U	21.1	21.1	pg/L	21.1
37680-65-2	PCB-18/30	CU	42.1	42.1	pg/L	42.1
38444-73-4	PCB-19	U	21.1	21.1	pg/L	21.1
38444-84-7	PCB-20/28	C	56.8	55.9	pg/L	42.1
55702-46-0	PCB-21/33	CU	42.1	42.1	pg/L	42.1
38444-85-8	PCB-22		23.6	22.7	pg/L	21.1
55720-44-0	PCB-23	U	21.1	21.1	pg/L	21.1
55702-45-9	PCB-24	U	21.1	21.1	pg/L	21.1
55712-37-3	PCB-25	U	21.1	21.1	pg/L	21.1
38444-81-4	PCB-26/29	CU	42.1	42.1	pg/L	42.1
38444-76-7	PCB-27	U	21.1	21.1	pg/L	21.1
16606-02-3	PCB-31		42.1	41.3	pg/L	21.1
38444-77-8	PCB-32	U	21.1	21.1	pg/L	21.1
37680-68-5	PCB-34	U	21.1	21.1	pg/L	21.1
37680-69-6	PCB-35	U	21.1	21.1	pg/L	21.1
38444-87-0	PCB-36	U	21.1	21.1	pg/L	21.1
38444-90-5	PCB-37		24.4	23.5	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3572
 Lab Sample ID: 2774002
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10663
 Batch ID: 19628
 Run Date: 10/04/2011 19:28
 Data File: c04oct11a-9
 Prep Batch: 19612
 Prep Date: 20-SEP-11

Client: LANL001
 Date Collected: 09/01/2011 12:00
 Date Received: 09/15/2011 10:21
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 949 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.1	21.1	pg/L	21.1
38444-88-1	PCB-39	U	21.1	21.1	pg/L	21.1
38444-93-8	PCB-40/71	CU	42.1	42.1	pg/L	42.1
52663-59-9	PCB-41	U	105	105	pg/L	105
36559-22-5	PCB-42	U	21.1	21.1	pg/L	21.1
70362-46-8	PCB-43	U	21.1	21.1	pg/L	21.1
41464-39-5	PCB-44/65/47	CU	63.2	63.2	pg/L	63.2
70362-45-7	PCB-45/51	CU	42.1	42.1	pg/L	42.1
41464-47-5	PCB-46	U	21.1	21.1	pg/L	21.1
70362-47-9	PCB-48	U	21.1	21.1	pg/L	21.1
41464-40-8	PCB-69/49	CU	42.1	42.1	pg/L	42.1
62796-65-0	PCB-50/53	CU	42.1	42.1	pg/L	42.1
35693-99-3	PCB-52		124	122	pg/L	21.1
15968-05-5	PCB-54	U	21.1	21.1	pg/L	21.1
74338-24-2	PCB-55	U	21.1	21.1	pg/L	21.1
41464-43-1	PCB-56		27.1	25.7	pg/L	21.1
70424-67-8	PCB-57	U	21.1	21.1	pg/L	21.1
41464-49-7	PCB-58	U	21.1	21.1	pg/L	21.1
74472-33-6	PCB-59/62/75	CU	63.2	63.2	pg/L	63.2
33025-41-1	PCB-60	U	21.1	21.1	pg/L	21.1
33284-53-6	PCB-61/76/70/74	C	139	138	pg/L	84.3
74472-34-7	PCB-63	U	21.1	21.1	pg/L	21.1
52663-58-8	PCB-64		24.2	22.9	pg/L	21.1
32598-10-0	PCB-66		45.8	44.6	pg/L	21.1
73575-53-8	PCB-67	U	21.1	21.1	pg/L	21.1
73575-52-7	PCB-68	U	21.1	21.1	pg/L	21.1
41464-42-0	PCB-72	U	21.1	21.1	pg/L	21.1
74338-23-1	PCB-73	U	21.1	21.1	pg/L	21.1
32598-13-3	PCB-77	U	21.1	21.1	pg/L	21.1
70362-49-1	PCB-78	U	21.1	21.1	pg/L	21.1
41464-48-6	PCB-79	U	21.1	21.1	pg/L	21.1
33284-52-5	PCB-80	U	21.1	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 3 of 7

SDG Number: 11-3572
Lab Sample ID: 2774002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10663
Batch ID: 19628
Run Date: 10/04/2011 19:28
Data File: c04oct11a-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/01/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 949 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.1	21.1	pg/L	21.1
52663-62-4	PCB-82		30.3	28.9	pg/L	21.1
60145-20-2	PCB-83	U	21.1	21.1	pg/L	21.1
52663-60-2	PCB-84		80.9	79.3	pg/L	21.1
65510-45-4	PCB-117/116/85	CU	63.2	63.2	pg/L	63.2
55312-69-1	PCB-86/87/97/109/119/125	C	197	196	pg/L	126
55215-17-3	PCB-88/91	CU	42.1	42.1	pg/L	42.1
73575-57-2	PCB-89	U	21.1	21.1	pg/L	21.1
68194-07-0	PCB-113/90/101	C	271	270	pg/L	63.2
52663-61-3	PCB-92		46.0	44.7	pg/L	21.1
73575-56-1	PCB-93/100	CU	42.1	42.1	pg/L	42.1
73575-55-0	PCB-94	U	21.1	21.1	pg/L	21.1
38379-99-6	PCB-95		180	178	pg/L	21.1
73575-54-9	PCB-96	U	21.1	21.1	pg/L	21.1
60233-25-2	PCB-102/98	CU	42.1	42.1	pg/L	42.1
38380-01-7	PCB-99	U	105	105	pg/L	105
60145-21-3	PCB-103	U	21.1	21.1	pg/L	21.1
56558-16-8	PCB-104	U	21.1	21.1	pg/L	21.1
32598-14-4	PCB-105	U	105	105	pg/L	105
70424-69-0	PCB-106	U	21.1	21.1	pg/L	21.1
70424-68-9	PCB-107	U	21.1	21.1	pg/L	21.1
70362-41-3	PCB-108/124	CU	42.1	42.1	pg/L	42.1
38380-03-9	PCB-110/115	CU	42.1	42.1	pg/L	42.1
39635-32-0	PCB-111	U	21.1	21.1	pg/L	21.1
74472-36-9	PCB-112	U	21.1	21.1	pg/L	21.1
74472-37-0	PCB-114	U	21.1	21.1	pg/L	21.1
31508-00-6	PCB-118		223	222	pg/L	21.1
68194-12-7	PCB-120	U	21.1	21.1	pg/L	21.1
56558-18-0	PCB-121	U	21.1	21.1	pg/L	21.1
76842-07-4	PCB-122	U	21.1	21.1	pg/L	21.1
65510-44-3	PCB-123	U	105	105	pg/L	105
57465-28-8	PCB-126	U	21.1	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 4 of 7

SDG Number: 11-3572
Lab Sample ID: 2774002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10663
Batch ID: 19628
Run Date: 10/04/2011 19:28
Data File: c04oct11a-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/01/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 949 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.1	21.1	pg/L	21.1
38380-07-3	PCB-128/166	C	65.0	63.2	pg/L	42.1
55215-18-4	PCB-138/163/129	C	429	427	pg/L	63.2
52663-66-8	PCB-130		28.1	25.7	pg/L	21.1
61798-70-7	PCB-131	U	21.1	21.1	pg/L	21.1
38380-05-1	PCB-132		132	129	pg/L	21.1
35694-04-3	PCB-133	U	21.1	21.1	pg/L	21.1
52704-70-8	PCB-134	U	105	105	pg/L	105
52744-13-5	PCB-151/135	C	109	108	pg/L	42.1
38411-22-2	PCB-136		43.0	42	pg/L	21.1
35694-06-5	PCB-137	U	21.1	21.1	pg/L	21.1
56030-56-9	PCB-139/140	CU	42.1	42.1	pg/L	42.1
52712-04-6	PCB-141		80.4	77.7	pg/L	21.1
41411-61-4	PCB-142	U	21.1	21.1	pg/L	21.1
68194-15-0	PCB-143	U	21.1	21.1	pg/L	21.1
68194-14-9	PCB-144	U	21.1	21.1	pg/L	21.1
74472-40-5	PCB-145	U	21.1	21.1	pg/L	21.1
51908-16-8	PCB-146		61.1	58.8	pg/L	21.1
68194-13-8	PCB-147/149	C	302	296	pg/L	42.1
74472-41-6	PCB-148	U	21.1	21.1	pg/L	21.1
68194-08-1	PCB-150	U	21.1	21.1	pg/L	21.1
68194-09-2	PCB-152	U	21.1	21.1	pg/L	21.1
35065-27-1	PCB-153/168	C	277	276	pg/L	42.1
60145-22-4	PCB-154	U	21.1	21.1	pg/L	21.1
33979-03-2	PCB-155	U	21.1	21.1	pg/L	21.1
38380-08-4	PCB-156/157	C	47.4	45.8	pg/L	42.1
74472-42-7	PCB-158		49.4	47.6	pg/L	21.1
39635-35-3	PCB-159	U	21.1	21.1	pg/L	21.1
41411-62-5	PCB-160	U	21.1	21.1	pg/L	21.1
74472-43-8	PCB-161	U	21.1	21.1	pg/L	21.1
39635-34-2	PCB-162	U	21.1	21.1	pg/L	21.1
74472-45-0	PCB-164		39.8	37.7	pg/L	21.1

Comments:

C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3572
Lab Sample ID: 2774002
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10663
Batch ID: 19628
Run Date: 10/04/2011 19:28
Data File: c04oct11a-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/01/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 949 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.1	21.1	pg/L	21.1
52663-72-6	PCB-167	U	21.1	21.1	pg/L	21.1
32774-16-6	PCB-169	U	21.1	21.1	pg/L	21.1
35065-30-6	PCB-170		87.9	86.4	pg/L	21.1
52663-71-5	PCB-173/171	CU	42.1	42.1	pg/L	42.1
52663-74-8	PCB-172	U	21.1	21.1	pg/L	21.1
38411-25-5	PCB-174		105	103	pg/L	21.1
40186-70-7	PCB-175	U	21.1	21.1	pg/L	21.1
52663-65-7	PCB-176	U	21.1	21.1	pg/L	21.1
52663-70-4	PCB-177		54.7	53.2	pg/L	21.1
52663-67-9	PCB-178	U	21.1	21.1	pg/L	21.1
52663-64-6	PCB-179		32.6	31.5	pg/L	21.1
35065-29-3	PCB-193/180	CU	42.1	42.1	pg/L	42.1
74472-47-2	PCB-181	U	21.1	21.1	pg/L	21.1
60145-23-5	PCB-182	U	21.1	21.1	pg/L	21.1
52663-69-1	PCB-183/185	C	54.4	53.1	pg/L	42.1
74472-48-3	PCB-184	U	21.1	21.1	pg/L	21.1
74472-49-4	PCB-186	U	21.1	21.1	pg/L	21.1
52663-68-0	PCB-187		105	104	pg/L	21.1
74487-85-7	PCB-188	U	21.1	21.1	pg/L	21.1
39635-31-9	PCB-189	U	21.1	21.1	pg/L	21.1
41411-64-7	PCB-190	U	21.1	21.1	pg/L	21.1
74472-50-7	PCB-191	U	21.1	21.1	pg/L	21.1
74472-51-8	PCB-192	U	21.1	21.1	pg/L	21.1
35694-08-7	PCB-194		35.1	34.2	pg/L	21.1
52663-78-2	PCB-195	U	21.1	21.1	pg/L	21.1
42740-50-1	PCB-196	U	21.1	21.1	pg/L	21.1
33091-17-7	PCB-197/200	CU	42.1	42.1	pg/L	42.1
68194-17-2	PCB-198/199	CU	42.1	42.1	pg/L	42.1
40186-71-8	PCB-201	U	21.1	21.1	pg/L	21.1
2136-99-4	PCB-202	U	21.1	21.1	pg/L	21.1
52663-76-0	PCB-203	U	22.1	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3572	Client: LANL001	Project: LANL00109
Lab Sample ID: 2774002	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPSAN-11-10663		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/04/2011 19:28	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-9		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 949 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.1	21.1	pg/L	21.1
74472-53-0	PCB-205	U	21.1	21.1	pg/L	21.1
40186-72-9	PCB-206	U	21.1	21.1	pg/L	21.1
52663-79-3	PCB-207	U	21.1	21.1	pg/L	21.1
52663-77-1	PCB-208	U	21.1	21.1	pg/L	21.1
2051-24-3	PCB-209	U	21.1	21.1	pg/L	21.1
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		58.4	53.8	pg/L	
25323-68-6	Total Tri PCBs		147	143	pg/L	
26914-33-0	Total Tetra PCBs		360	353	pg/L	
25429-29-2	Total Penta PCBs		1030	1020	pg/L	
26601-64-9	Total Hexa PCBs		1660	1630	pg/L	
28655-71-2	Total Hepta PCBs		439	431	pg/L	
55722-26-4	Total Octa PCBs		57.2	34.2	pg/L	
53742-07-7	Total Nona PCBs	U	0	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		3750	3670	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1130	2110	pg/L	53.4	(15%-150%)
13C-3-MoCB		1300	2110	pg/L	61.9	(15%-150%)
13C-4-DiCB		1230	2110	pg/L	58.1	(25%-150%)
13C-15-DiCB		1920	2110	pg/L	91.0	(25%-150%)
13C-19-TrCB		1660	2110	pg/L	79.0	(25%-150%)
13C-37-TrCB		2180	2110	pg/L	103	(25%-150%)
13C-54-TeCB		1470	2110	pg/L	69.8	(25%-150%)
13C-77-TeCB		2200	2110	pg/L	104	(25%-150%)
13C-81-TeCB		2170	2110	pg/L	103	(25%-150%)
13C-104-PeCB		1540	2110	pg/L	73.0	(25%-150%)
13C-105-PeCB		1810	2110	pg/L	85.8	(25%-150%)
13C-114-PeCB		1730	2110	pg/L	82.3	(25%-150%)
13C-118-PeCB		1750	2110	pg/L	83.2	(25%-150%)
13C-123-PeCB		1870	2110	pg/L	89.0	(25%-150%)
13C-126-PeCB		1820	2110	pg/L	86.2	(25%-150%)
13C-155-HxCB		1860	2110	pg/L	88.1	(25%-150%)
13C-156-HxCB	C	3420	4210	pg/L	81.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1640	2110	pg/L	77.7	(25%-150%)
13C-169-HxCB		1970	2110	pg/L	93.3	(25%-150%)
13C-188-HpCB		1440	2110	pg/L	68.1	(25%-150%)
13C-189-HpCB		1320	2110	pg/L	62.9	(25%-150%)
13C-202-OcCB		1490	2110	pg/L	70.6	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3572	Client: LANL001	Project: LANL00109
Lab Sample ID: 2774002	Date Collected: 09/01/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPSAN-11-10663		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/04/2011 19:28	Analyst: MJC	Instrument: HRP791
Data File: c04oct11a-9		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 949 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1950	2110	pg/L	92.5 (25%-150%)
13C-206-NoCB			2130	2110	pg/L	101 (25%-150%)
13C-208-NoCB			1670	2110	pg/L	79.4 (25%-150%)
13C-209-DeCB			1820	2110	pg/L	86.4 (25%-150%)
13C-28-TrCB			1620	2110	pg/L	76.7 (30%-135%)
13C-111-PeCB			1940	2110	pg/L	91.9 (30%-135%)
13C-178-HpCB			2060	2110	pg/L	98.0 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 1 of 7

SDG Number: 11-3600
Lab Sample ID: 2780002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11150
Batch ID: 19628
Run Date: 10/13/2011 12:34
Data File: c12oct11a_3-4
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 926.7 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.6	21.6	pg/L	21.6
2051-61-8	PCB-2	U	21.6	21.6	pg/L	21.6
2051-62-9	PCB-3	U	21.6	21.6	pg/L	21.6
13029-08-8	PCB-4	U	108	108	pg/L	108
16605-91-7	PCB-5	U	21.6	21.6	pg/L	21.6
25569-80-6	PCB-6	U	21.6	21.6	pg/L	21.6
33284-50-3	PCB-7	U	21.6	21.6	pg/L	21.6
34883-43-7	PCB-8	U	21.6	21.6	pg/L	21.6
34883-39-1	PCB-9	U	21.6	21.6	pg/L	21.6
33146-45-1	PCB-10	U	108	108	pg/L	108
2050-67-1	PCB-11	B	185	182	pg/L	108
2974-92-7	PCB-13/12	CU	43.2	43.2	pg/L	43.2
34883-41-5	PCB-14	U	21.6	21.6	pg/L	21.6
2050-68-2	PCB-15	U	21.6	21.6	pg/L	21.6
38444-78-9	PCB-16	U	108	108	pg/L	108
37680-66-3	PCB-17	U	21.6	21.6	pg/L	21.6
37680-65-2	PCB-18/30	CU	43.2	43.2	pg/L	43.2
38444-73-4	PCB-19	U	21.6	21.6	pg/L	21.6
38444-84-7	PCB-20/28	CU	43.2	43.2	pg/L	43.2
55702-46-0	PCB-21/33	CU	43.2	43.2	pg/L	43.2
38444-85-8	PCB-22	U	21.6	21.6	pg/L	21.6
55720-44-0	PCB-23	U	21.6	21.6	pg/L	21.6
55702-45-9	PCB-24	U	21.6	21.6	pg/L	21.6
55712-37-3	PCB-25	U	21.6	21.6	pg/L	21.6
38444-81-4	PCB-26/29	CU	43.2	43.2	pg/L	43.2
38444-76-7	PCB-27	U	21.6	21.6	pg/L	21.6
16606-02-3	PCB-31	U	21.6	21.6	pg/L	21.6
38444-77-8	PCB-32	U	21.6	21.6	pg/L	21.6
37680-68-5	PCB-34	U	21.6	21.6	pg/L	21.6
37680-69-6	PCB-35	U	21.6	21.6	pg/L	21.6
38444-87-0	PCB-36	U	21.6	21.6	pg/L	21.6
38444-90-5	PCB-37	U	21.6	21.6	pg/L	21.6

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3600	Client: LANL001	Project: LANL00109
Lab Sample ID: 2780002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPPAJ-11-11150		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 12:34	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_3-4		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 926.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.6	21.6	pg/L	21.6
38444-88-1	PCB-39	U	21.6	21.6	pg/L	21.6
38444-93-8	PCB-40/71	CU	43.2	43.2	pg/L	43.2
52663-59-9	PCB-41	U	108	108	pg/L	108
36559-22-5	PCB-42	U	21.6	21.6	pg/L	21.6
70362-46-8	PCB-43	U	21.6	21.6	pg/L	21.6
41464-39-5	PCB-44/65/47	CU	64.7	64.7	pg/L	64.7
70362-45-7	PCB-45/51	CU	43.2	43.2	pg/L	43.2
41464-47-5	PCB-46	U	21.6	21.6	pg/L	21.6
70362-47-9	PCB-48	U	21.6	21.6	pg/L	21.6
41464-40-8	PCB-69/49	CU	43.2	43.2	pg/L	43.2
62796-65-0	PCB-50/53	CU	43.2	43.2	pg/L	43.2
35693-99-3	PCB-52		126	125	pg/L	21.6
15968-05-5	PCB-54	U	21.6	21.6	pg/L	21.6
74338-24-2	PCB-55	U	21.6	21.6	pg/L	21.6
41464-43-1	PCB-56		36.8	35.4	pg/L	21.6
70424-67-8	PCB-57	U	21.6	21.6	pg/L	21.6
41464-49-7	PCB-58	U	21.6	21.6	pg/L	21.6
74472-33-6	PCB-59/62/75	CU	64.7	64.7	pg/L	64.7
33025-41-1	PCB-60	U	21.6	21.6	pg/L	21.6
33284-53-6	PCB-61/76/70/74	C	231	229	pg/L	86.3
74472-34-7	PCB-63	U	21.6	21.6	pg/L	21.6
52663-58-8	PCB-64	U	21.6	21.6	pg/L	21.6
32598-10-0	PCB-66		55.6	54.5	pg/L	21.6
73575-53-8	PCB-67	U	21.6	21.6	pg/L	21.6
73575-52-7	PCB-68	U	21.6	21.6	pg/L	21.6
41464-42-0	PCB-72	U	21.6	21.6	pg/L	21.6
74338-23-1	PCB-73	U	21.6	21.6	pg/L	21.6
32598-13-3	PCB-77		80.6	79.5	pg/L	21.6
70362-49-1	PCB-78	U	21.6	21.6	pg/L	21.6
41464-48-6	PCB-79	U	21.6	21.6	pg/L	21.6
33284-52-5	PCB-80	U	21.6	21.6	pg/L	21.6

Comments:

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**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3600	Client: LANL001	Project: LANL00109
Lab Sample ID: 2780002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPPAJ-11-11150		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 12:34	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_3-4		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 926.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.6	21.6	pg/L	21.6
52663-62-4	PCB-82		90.3	88.9	pg/L	21.6
60145-20-2	PCB-83		34.7	33.2	pg/L	21.6
52663-60-2	PCB-84		153	152	pg/L	21.6
65510-45-4	PCB-117/116/85	C	112	111	pg/L	64.7
55312-69-1	PCB-86/87/97/109/119/125	C	505	504	pg/L	129
55215-17-3	PCB-88/91	C	58.2	57	pg/L	43.2
73575-57-2	PCB-89	U	21.6	21.6	pg/L	21.6
68194-07-0	PCB-113/90/101	C	600	599	pg/L	64.7
52663-61-3	PCB-92		90.4	89.1	pg/L	21.6
73575-56-1	PCB-93/100	CU	43.2	43.2	pg/L	43.2
73575-55-0	PCB-94	U	21.6	21.6	pg/L	21.6
38379-99-6	PCB-95		276	275	pg/L	21.6
73575-54-9	PCB-96	U	21.6	21.6	pg/L	21.6
60233-25-2	PCB-102/98	CU	43.2	43.2	pg/L	43.2
38380-01-7	PCB-99		201	200	pg/L	108
60145-21-3	PCB-103	U	21.6	21.6	pg/L	21.6
56558-16-8	PCB-104	U	21.6	21.6	pg/L	21.6
32598-14-4	PCB-105		318	317	pg/L	108
70424-69-0	PCB-106	U	21.6	21.6	pg/L	21.6
70424-68-9	PCB-107		66.5	65.1	pg/L	21.6
70362-41-3	PCB-108/124	CU	43.2	43.2	pg/L	43.2
38380-03-9	PCB-110/115	CU	43.2	43.2	pg/L	43.2
39635-32-0	PCB-111	U	21.6	21.6	pg/L	21.6
74472-36-9	PCB-112	U	21.6	21.6	pg/L	21.6
74472-37-0	PCB-114	U	21.6	21.6	pg/L	21.6
31508-00-6	PCB-118		718	716	pg/L	21.6
68194-12-7	PCB-120	U	21.6	21.6	pg/L	21.6
56558-18-0	PCB-121	U	21.6	21.6	pg/L	21.6
76842-07-4	PCB-122	U	21.6	21.6	pg/L	21.6
65510-44-3	PCB-123	U	108	108	pg/L	108
57465-28-8	PCB-126		32.4	31	pg/L	21.6

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3600
Lab Sample ID: 2780002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11150
Batch ID: 19628
Run Date: 10/13/2011 12:34
Data File: c12oct11a_3-4
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 926.7 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.6	21.6	pg/L	21.6
38380-07-3	PCB-128/166	C	278	276	pg/L	43.2
55215-18-4	PCB-138/163/129	C	1410	1400	pg/L	64.7
52663-66-8	PCB-130		95.4	93	pg/L	21.6
61798-70-7	PCB-131	U	21.6	21.6	pg/L	21.6
38380-05-1	PCB-132		415	413	pg/L	21.6
35694-04-3	PCB-133	U	21.6	21.6	pg/L	21.6
52704-70-8	PCB-134	U	108	108	pg/L	108
52744-13-5	PCB-151/135	C	221	220	pg/L	43.2
38411-22-2	PCB-136		76.0	74.9	pg/L	21.6
35694-06-5	PCB-137		74.5	72.5	pg/L	21.6
56030-56-9	PCB-139/140	CU	43.2	43.2	pg/L	43.2
52712-04-6	PCB-141		249	246	pg/L	21.6
41411-61-4	PCB-142	U	21.6	21.6	pg/L	21.6
68194-15-0	PCB-143	U	21.6	21.6	pg/L	21.6
68194-14-9	PCB-144		32.2	30.9	pg/L	21.6
74472-40-5	PCB-145	U	21.6	21.6	pg/L	21.6
51908-16-8	PCB-146		171	169	pg/L	21.6
68194-13-8	PCB-147/149	C	717	710	pg/L	43.2
74472-41-6	PCB-148	U	21.6	21.6	pg/L	21.6
68194-08-1	PCB-150	U	21.6	21.6	pg/L	21.6
68194-09-2	PCB-152	U	21.6	21.6	pg/L	21.6
35065-27-1	PCB-153/168	C	795	793	pg/L	43.2
60145-22-4	PCB-154	U	21.6	21.6	pg/L	21.6
33979-03-2	PCB-155	U	21.6	21.6	pg/L	21.6
38380-08-4	PCB-156/157	C	185	183	pg/L	43.2
74472-42-7	PCB-158		192	190	pg/L	21.6
39635-35-3	PCB-159	U	21.6	21.6	pg/L	21.6
41411-62-5	PCB-160	U	21.6	21.6	pg/L	21.6
74472-43-8	PCB-161	U	21.6	21.6	pg/L	21.6
39635-34-2	PCB-162	U	21.6	21.6	pg/L	21.6
74472-45-0	PCB-164		130	128	pg/L	21.6

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3600	Client: LANL001	Project: LANL00109
Lab Sample ID: 2780002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPPAJ-11-11150		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 12:34	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_3-4		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 926.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.6	21.6	pg/L	21.6
52663-72-6	PCB-167		69.1	67.9	pg/L	21.6
32774-16-6	PCB-169	U	21.6	21.6	pg/L	21.6
35065-30-6	PCB-170		194	192	pg/L	21.6
52663-71-5	PCB-173/171	C	58.4	56.8	pg/L	43.2
52663-74-8	PCB-172		29.5	28.1	pg/L	21.6
38411-25-5	PCB-174		178	176	pg/L	21.6
40186-70-7	PCB-175	U	21.6	21.6	pg/L	21.6
52663-65-7	PCB-176	U	21.6	21.6	pg/L	21.6
52663-70-4	PCB-177		85.8	84.3	pg/L	21.6
52663-67-9	PCB-178		26.1	24.6	pg/L	21.6
52663-64-6	PCB-179		41.2	40.2	pg/L	21.6
35065-29-3	PCB-193/180	C	371	370	pg/L	43.2
74472-47-2	PCB-181	U	21.6	21.6	pg/L	21.6
60145-23-5	PCB-182	U	21.6	21.6	pg/L	21.6
52663-69-1	PCB-183/185	C	84.7	83.4	pg/L	43.2
74472-48-3	PCB-184	U	21.6	21.6	pg/L	21.6
74472-49-4	PCB-186	U	21.6	21.6	pg/L	21.6
52663-68-0	PCB-187		150	148	pg/L	21.6
74487-85-7	PCB-188	U	21.6	21.6	pg/L	21.6
39635-31-9	PCB-189	U	21.6	21.6	pg/L	21.6
41411-64-7	PCB-190		38.1	37	pg/L	21.6
74472-50-7	PCB-191	U	21.6	21.6	pg/L	21.6
74472-51-8	PCB-192	U	21.6	21.6	pg/L	21.6
35694-08-7	PCB-194		47.8	46.9	pg/L	21.6
52663-78-2	PCB-195	U	21.6	21.6	pg/L	21.6
42740-50-1	PCB-196	U	22.9	21.6	pg/L	21.6
33091-17-7	PCB-197/200	CU	43.2	43.2	pg/L	43.2
68194-17-2	PCB-198/199	C	53.9	52.6	pg/L	43.2
40186-71-8	PCB-201	U	21.6	21.6	pg/L	21.6
2136-99-4	PCB-202	U	21.6	21.6	pg/L	21.6
52663-76-0	PCB-203		28.8	27.6	pg/L	21.6

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3600
Lab Sample ID: 2780002
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11150
Batch ID: 19628
Run Date: 10/13/2011 12:34
Data File: c12oct11a_3-4
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 926.7 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.6	21.6	pg/L	21.6
74472-53-0	PCB-205	U	21.6	21.6	pg/L	21.6
40186-72-9	PCB-206	U	22.7	21.6	pg/L	21.6
52663-79-3	PCB-207	U	21.6	21.6	pg/L	21.6
52663-77-1	PCB-208	U	21.6	21.6	pg/L	21.6
2051-24-3	PCB-209	U	21.6	21.6	pg/L	21.6
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs	U	0	0	pg/L	
25323-68-6	Total Tri PCBs	U	0	0	pg/L	
26914-33-0	Total Tetra PCBs		530	523	pg/L	
25429-29-2	Total Penta PCBs		3260	3240	pg/L	
26601-64-9	Total Hexa PCBs		5110	5070	pg/L	
28655-71-2	Total Hepta PCBs		1260	1240	pg/L	
55722-26-4	Total Octa PCBs		153	127	pg/L	
53742-07-7	Total Nona PCBs	U	22.7	0	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		10300	10200	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1090	2160	pg/L	50.6	(15%-150%)
13C-3-MoCB		1270	2160	pg/L	58.8	(15%-150%)
13C-4-DiCB		1200	2160	pg/L	55.8	(25%-150%)
13C-15-DiCB		1840	2160	pg/L	85.2	(25%-150%)
13C-19-TrCB		1750	2160	pg/L	81.0	(25%-150%)
13C-37-TrCB		1870	2160	pg/L	86.5	(25%-150%)
13C-54-TeCB		1360	2160	pg/L	63.2	(25%-150%)
13C-77-TeCB		2090	2160	pg/L	97.0	(25%-150%)
13C-81-TeCB		1920	2160	pg/L	89.1	(25%-150%)
13C-104-PeCB		1390	2160	pg/L	64.5	(25%-150%)
13C-105-PeCB		1630	2160	pg/L	75.4	(25%-150%)
13C-114-PeCB		1540	2160	pg/L	71.6	(25%-150%)
13C-118-PeCB		1550	2160	pg/L	71.8	(25%-150%)
13C-123-PeCB		1650	2160	pg/L	76.4	(25%-150%)
13C-126-PeCB		1620	2160	pg/L	74.9	(25%-150%)
13C-155-HxCB		1910	2160	pg/L	88.5	(25%-150%)
13C-156-HxCB	C	3140	4320	pg/L	72.9	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1510	2160	pg/L	69.9	(25%-150%)
13C-169-HxCB		1790	2160	pg/L	83.1	(25%-150%)
13C-188-HpCB		1670	2160	pg/L	77.4	(25%-150%)
13C-189-HpCB		1330	2160	pg/L	61.7	(25%-150%)
13C-202-OcCB		1660	2160	pg/L	76.9	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3600	Client: LANL001	Project: LANL00109
Lab Sample ID: 2780002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPPAJ-11-11150		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 12:34	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_3-4		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 926.7 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1960	2160	pg/L	91.0 (25%-150%)
13C-206-NoCB			2040	2160	pg/L	94.6 (25%-150%)
13C-208-NoCB			1690	2160	pg/L	78.5 (25%-150%)
13C-209-DeCB			1580	2160	pg/L	73.2 (25%-150%)
13C-28-TrCB			1470	2160	pg/L	68.3 (30%-135%)
13C-111-PeCB			1970	2160	pg/L	91.3 (30%-135%)
13C-178-HpCB			2080	2160	pg/L	96.4 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3600
Lab Sample ID: 2780001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11230
Batch ID: 19628
Run Date: 10/13/2011 11:28
Data File: c12oct11a_3-3
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 947.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.1	21.1	pg/L	21.1
2051-61-8	PCB-2	U	21.1	21.1	pg/L	21.1
2051-62-9	PCB-3	U	21.1	21.1	pg/L	21.1
13029-08-8	PCB-4	U	106	106	pg/L	106
16605-91-7	PCB-5	U	21.1	21.1	pg/L	21.1
25569-80-6	PCB-6	U	21.1	21.1	pg/L	21.1
33284-50-3	PCB-7	U	21.1	21.1	pg/L	21.1
34883-43-7	PCB-8	U	21.1	21.1	pg/L	21.1
34883-39-1	PCB-9	U	21.1	21.1	pg/L	21.1
33146-45-1	PCB-10	U	106	106	pg/L	106
2050-67-1	PCB-11	U	106	106	pg/L	106
2974-92-7	PCB-13/12	CU	42.2	42.2	pg/L	42.2
34883-41-5	PCB-14	U	21.1	21.1	pg/L	21.1
2050-68-2	PCB-15		35.6	33.3	pg/L	21.1
38444-78-9	PCB-16	U	106	106	pg/L	106
37680-66-3	PCB-17	U	21.1	21.1	pg/L	21.1
37680-65-2	PCB-18/30	CU	42.2	42.2	pg/L	42.2
38444-73-4	PCB-19	U	21.1	21.1	pg/L	21.1
38444-84-7	PCB-20/28	C	50.5	49.6	pg/L	42.2
55702-46-0	PCB-21/33	CU	42.2	42.2	pg/L	42.2
38444-85-8	PCB-22	U	21.1	21.1	pg/L	21.1
55720-44-0	PCB-23	U	21.1	21.1	pg/L	21.1
55702-45-9	PCB-24	U	21.1	21.1	pg/L	21.1
55712-37-3	PCB-25	U	21.1	21.1	pg/L	21.1
38444-81-4	PCB-26/29	CU	42.2	42.2	pg/L	42.2
38444-76-7	PCB-27	U	21.1	21.1	pg/L	21.1
16606-02-3	PCB-31		36.4	35.6	pg/L	21.1
38444-77-8	PCB-32	U	21.1	21.1	pg/L	21.1
37680-68-5	PCB-34	U	21.1	21.1	pg/L	21.1
37680-69-6	PCB-35	U	21.1	21.1	pg/L	21.1
38444-87-0	PCB-36	U	21.1	21.1	pg/L	21.1
38444-90-5	PCB-37	U	21.6	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3600
Lab Sample ID: 2780001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11230
Batch ID: 19628
Run Date: 10/13/2011 11:28
Data File: c12oct11a_3-3
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 947.6 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.1	21.1	pg/L	21.1
38444-88-1	PCB-39	U	21.1	21.1	pg/L	21.1
38444-93-8	PCB-40/71	C	112	110	pg/L	42.2
52663-59-9	PCB-41	U	106	106	pg/L	106
36559-22-5	PCB-42	U	21.1	21.1	pg/L	21.1
70362-46-8	PCB-43	U	21.1	21.1	pg/L	21.1
41464-39-5	PCB-44/65/47	CU	63.3	63.3	pg/L	63.3
70362-45-7	PCB-45/51	CU	42.2	42.2	pg/L	42.2
41464-47-5	PCB-46	U	21.1	21.1	pg/L	21.1
70362-47-9	PCB-48	U	21.1	21.1	pg/L	21.1
41464-40-8	PCB-69/49	C	183	181	pg/L	42.2
62796-65-0	PCB-50/53	CU	42.2	42.2	pg/L	42.2
35693-99-3	PCB-52		1640	1640	pg/L	21.1
15968-05-5	PCB-54	U	21.1	21.1	pg/L	21.1
74338-24-2	PCB-55	U	21.1	21.1	pg/L	21.1
41464-43-1	PCB-56		112	110	pg/L	21.1
70424-67-8	PCB-57	U	21.1	21.1	pg/L	21.1
41464-49-7	PCB-58	U	21.1	21.1	pg/L	21.1
74472-33-6	PCB-59/62/75	CU	63.3	63.3	pg/L	63.3
33025-41-1	PCB-60		39.0	37.8	pg/L	21.1
33284-53-6	PCB-61/76/70/74	C	867	865	pg/L	84.4
74472-34-7	PCB-63	U	21.1	21.1	pg/L	21.1
52663-58-8	PCB-64		160	159	pg/L	21.1
32598-10-0	PCB-66	U	21.1	21.1	pg/L	21.1
73575-53-8	PCB-67	U	21.1	21.1	pg/L	21.1
73575-52-7	PCB-68	U	21.1	21.1	pg/L	21.1
41464-42-0	PCB-72	U	21.1	21.1	pg/L	21.1
74338-23-1	PCB-73	U	21.1	21.1	pg/L	21.1
32598-13-3	PCB-77		68.1	67	pg/L	21.1
70362-49-1	PCB-78	U	21.1	21.1	pg/L	21.1
41464-48-6	PCB-79		30.5	29.5	pg/L	21.1
33284-52-5	PCB-80	U	21.1	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3600
Lab Sample ID: 2780001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11230
Batch ID: 19628
Run Date: 10/13/2011 11:28
Data File: c12oct11a_3-3
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 947.6 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.1	21.1	pg/L	21.1
52663-62-4	PCB-82		622	620	pg/L	21.1
60145-20-2	PCB-83		324	323	pg/L	21.1
52663-60-2	PCB-84		2180	2180	pg/L	21.1
65510-45-4	PCB-117/116/85	C	840	839	pg/L	63.3
55312-69-1	PCB-86/87/97/109/119/125	C	3780	3780	pg/L	127
55215-17-3	PCB-88/91	C	759	758	pg/L	42.2
73575-57-2	PCB-89	U	21.1	21.1	pg/L	21.1
68194-07-0	PCB-113/90/101	C	5900	5900	pg/L	63.3
52663-61-3	PCB-92		1080	1080	pg/L	21.1
73575-56-1	PCB-93/100	CU	42.2	42.2	pg/L	42.2
73575-55-0	PCB-94	U	21.1	21.1	pg/L	21.1
38379-99-6	PCB-95		4670	4670	pg/L	21.1
73575-54-9	PCB-96	U	21.1	21.1	pg/L	21.1
60233-25-2	PCB-102/98	C	101	99.3	pg/L	42.2
38380-01-7	PCB-99		1980	1980	pg/L	106
60145-21-3	PCB-103	U	22.3	21.1	pg/L	21.1
56558-16-8	PCB-104	U	21.1	21.1	pg/L	21.1
32598-14-4	PCB-105		1040	1040	pg/L	106
70424-69-0	PCB-106	U	21.1	21.1	pg/L	21.1
70424-68-9	PCB-107		247	245	pg/L	21.1
70362-41-3	PCB-108/124	C	190	188	pg/L	42.2
38380-03-9	PCB-110/115	CU	42.2	42.2	pg/L	42.2
39635-32-0	PCB-111	U	21.1	21.1	pg/L	21.1
74472-36-9	PCB-112	U	21.1	21.1	pg/L	21.1
74472-37-0	PCB-114		35.7	34.3	pg/L	21.1
31508-00-6	PCB-118		2840	2840	pg/L	21.1
68194-12-7	PCB-120	U	21.1	21.1	pg/L	21.1
56558-18-0	PCB-121	U	21.1	21.1	pg/L	21.1
76842-07-4	PCB-122		47.9	46.5	pg/L	21.1
65510-44-3	PCB-123	U	106	106	pg/L	106
57465-28-8	PCB-126	U	22.0	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3600
Lab Sample ID: 2780001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11230
Batch ID: 19628
Run Date: 10/13/2011 11:28
Data File: c12oct11a_3-3
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35
Method: EPA Method 1668A
Analyst: MJC
Prep Method: SW846 3520C
Aliquot: 947.6 mL

Project: LANL00109
Matrix: WATER
Prep Basis: As Received
Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.1	21.1	pg/L	21.1
38380-07-3	PCB-128/166	C	1260	1260	pg/L	42.2
55215-18-4	PCB-138/163/129	C	6940	6940	pg/L	63.3
52663-66-8	PCB-130		476	473	pg/L	21.1
61798-70-7	PCB-131		115	113	pg/L	21.1
38380-05-1	PCB-132		2670	2670	pg/L	21.1
35694-04-3	PCB-133		76.5	74.1	pg/L	21.1
52704-70-8	PCB-134		444	442	pg/L	106
52744-13-5	PCB-151/135	C	1730	1730	pg/L	42.2
38411-22-2	PCB-136		856	855	pg/L	21.1
35694-06-5	PCB-137		396	394	pg/L	21.1
56030-56-9	PCB-139/140	C	157	155	pg/L	42.2
52712-04-6	PCB-141		1370	1360	pg/L	21.1
41411-61-4	PCB-142	U	21.1	21.1	pg/L	21.1
68194-15-0	PCB-143	U	21.1	21.1	pg/L	21.1
68194-14-9	PCB-144		284	283	pg/L	21.1
74472-40-5	PCB-145	U	21.1	21.1	pg/L	21.1
51908-16-8	PCB-146		934	932	pg/L	21.1
68194-13-8	PCB-147/149	C	5230	5220	pg/L	42.2
74472-41-6	PCB-148	U	21.1	21.1	pg/L	21.1
68194-08-1	PCB-150	U	21.1	21.1	pg/L	21.1
68194-09-2	PCB-152	U	21.1	21.1	pg/L	21.1
35065-27-1	PCB-153/168	C	4210	4210	pg/L	42.2
60145-22-4	PCB-154		58.1	56.7	pg/L	21.1
33979-03-2	PCB-155	U	21.1	21.1	pg/L	21.1
38380-08-4	PCB-156/157	C	659	658	pg/L	42.2
74472-42-7	PCB-158		924	922	pg/L	21.1
39635-35-3	PCB-159	U	21.1	21.1	pg/L	21.1
41411-62-5	PCB-160	U	21.1	21.1	pg/L	21.1
74472-43-8	PCB-161	U	21.1	21.1	pg/L	21.1
39635-34-2	PCB-162		25.1	23.9	pg/L	21.1
74472-45-0	PCB-164		622	620	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 5 of 7

SDG Number: 11-3600
Lab Sample ID: 2780001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11230
Batch ID: 19628
Run Date: 10/13/2011 11:28
Data File: c12oct11a_3-3
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 947.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.1	21.1	pg/L	21.1
52663-72-6	PCB-167		288	287	pg/L	21.1
32774-16-6	PCB-169	U	21.1	21.1	pg/L	21.1
35065-30-6	PCB-170		661	659	pg/L	21.1
52663-71-5	PCB-173/171	C	245	243	pg/L	42.2
52663-74-8	PCB-172		108	107	pg/L	21.1
38411-25-5	PCB-174		787	785	pg/L	21.1
40186-70-7	PCB-175		28.5	27.1	pg/L	21.1
52663-65-7	PCB-176		81.3	80.2	pg/L	21.1
52663-70-4	PCB-177		353	352	pg/L	21.1
52663-67-9	PCB-178		109	108	pg/L	21.1
52663-64-6	PCB-179		231	230	pg/L	21.1
35065-29-3	PCB-193/180	C	1290	1290	pg/L	42.2
74472-47-2	PCB-181	U	21.1	21.1	pg/L	21.1
60145-23-5	PCB-182	U	21.1	21.1	pg/L	21.1
52663-69-1	PCB-183/185	C	373	371	pg/L	42.2
74472-48-3	PCB-184	U	21.1	21.1	pg/L	21.1
74472-49-4	PCB-186	U	21.1	21.1	pg/L	21.1
52663-68-0	PCB-187		613	612	pg/L	21.1
74487-85-7	PCB-188	U	21.1	21.1	pg/L	21.1
39635-31-9	PCB-189		33.2	32.1	pg/L	21.1
41411-64-7	PCB-190		116	115	pg/L	21.1
74472-50-7	PCB-191		25.6	24.6	pg/L	21.1
74472-51-8	PCB-192	U	21.1	21.1	pg/L	21.1
35694-08-7	PCB-194		161	160	pg/L	21.1
52663-78-2	PCB-195	U	21.1	21.1	pg/L	21.1
42740-50-1	PCB-196		78.3	77	pg/L	21.1
33091-17-7	PCB-197/200	CU	42.2	42.2	pg/L	42.2
68194-17-2	PCB-198/199	C	179	178	pg/L	42.2
40186-71-8	PCB-201	U	21.1	21.1	pg/L	21.1
2136-99-4	PCB-202		32.5	31.5	pg/L	21.1
52663-76-0	PCB-203	U	21.1	21.1	pg/L	21.1

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3600
Lab Sample ID: 2780001
Client Sample: 1668A Water
Client ID: WT_IPPAJ-11-11230
Batch ID: 19628
Run Date: 10/13/2011 11:28
Data File: c12oct11a_3-3
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 947.6 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.1	21.1	pg/L	21.1
74472-53-0	PCB-205	U	21.1	21.1	pg/L	21.1
40186-72-9	PCB-206		61.9	60.7	pg/L	21.1
52663-79-3	PCB-207	U	21.1	21.1	pg/L	21.1
52663-77-1	PCB-208	U	21.1	21.1	pg/L	21.1
2051-24-3	PCB-209	U	21.1	21.1	pg/L	21.1
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		35.6	33.3	pg/L	
25323-68-6	Total Tri PCBs		72.1	85.2	pg/L	
26914-33-0	Total Tetra PCBs		3210	3200	pg/L	
25429-29-2	Total Penta PCBs		26700	26600	pg/L	
26601-64-9	Total Hexa PCBs		29700	29700	pg/L	
28655-71-2	Total Hepta PCBs		5060	5040	pg/L	
55722-26-4	Total Octa PCBs		451	447	pg/L	
53742-07-7	Total Nona PCBs		61.9	60.7	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		65300	65200	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1090	2110	pg/L	51.8	(15%-150%)
13C-3-MoCB		1290	2110	pg/L	61.0	(15%-150%)
13C-4-DiCB		1210	2110	pg/L	57.4	(25%-150%)
13C-15-DiCB		1910	2110	pg/L	90.7	(25%-150%)
13C-19-TrCB		1700	2110	pg/L	80.5	(25%-150%)
13C-37-TrCB		2000	2110	pg/L	94.9	(25%-150%)
13C-54-TeCB		1430	2110	pg/L	67.5	(25%-150%)
13C-77-TeCB		2010	2110	pg/L	95.3	(25%-150%)
13C-81-TeCB		2080	2110	pg/L	98.7	(25%-150%)
13C-104-PeCB		1410	2110	pg/L	66.9	(25%-150%)
13C-105-PeCB		1640	2110	pg/L	77.6	(25%-150%)
13C-114-PeCB		1590	2110	pg/L	75.5	(25%-150%)
13C-118-PeCB		1590	2110	pg/L	75.4	(25%-150%)
13C-123-PeCB		1680	2110	pg/L	79.6	(25%-150%)
13C-126-PeCB		1640	2110	pg/L	77.8	(25%-150%)
13C-155-HxCB		2080	2110	pg/L	98.5	(25%-150%)
13C-156-HxCB	C	3240	4220	pg/L	76.8	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1550	2110	pg/L	73.5	(25%-150%)
13C-169-HxCB		1850	2110	pg/L	87.7	(25%-150%)
13C-188-HpCB		1670	2110	pg/L	79.3	(25%-150%)
13C-189-HpCB		1350	2110	pg/L	64.2	(25%-150%)
13C-202-OcCB		1650	2110	pg/L	78.0	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3600	Client: LANL001	Project: LANL00109
Lab Sample ID: 2780001	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPPAJ-11-11230		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/13/2011 11:28	Analyst: MJC	Instrument: HRP791
Data File: c12oct11a_3-3		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 947.6 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1990	2110	pg/L	94.5 (25%-150%)
13C-206-NoCB			2090	2110	pg/L	98.9 (25%-150%)
13C-208-NoCB			1630	2110	pg/L	77.2 (25%-150%)
13C-209-DeCB			1700	2110	pg/L	80.8 (25%-150%)
13C-28-TrCB			1590	2110	pg/L	75.3 (30%-135%)
13C-111-PeCB			1820	2110	pg/L	86.1 (30%-135%)
13C-178-HpCB			2120	2110	pg/L	100 (30%-135%)

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3603
Lab Sample ID: 2781002
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10537
Batch ID: 19643
Run Date: 10/03/2011 16:57
Data File: c03oct11a-5
Prep Batch: 19638
Prep Date: 28-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 922 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.7	21.7	pg/L	21.7
2051-61-8	PCB-2	U	21.7	21.7	pg/L	21.7
2051-62-9	PCB-3	U	21.7	21.7	pg/L	21.7
13029-08-8	PCB-4	U	108	108	pg/L	108
16605-91-7	PCB-5	U	21.7	21.7	pg/L	21.7
25569-80-6	PCB-6	U	21.7	21.7	pg/L	21.7
33284-50-3	PCB-7	U	21.7	21.7	pg/L	21.7
34883-43-7	PCB-8		35.4	33	pg/L	21.7
34883-39-1	PCB-9	U	21.7	21.7	pg/L	21.7
33146-45-1	PCB-10	U	108	108	pg/L	108
2050-67-1	PCB-11	U	108	108	pg/L	108
2974-92-7	PCB-13/12	CU	43.4	43.4	pg/L	43.4
34883-41-5	PCB-14	U	21.7	21.7	pg/L	21.7
2050-68-2	PCB-15		94.4	92.1	pg/L	21.7
38444-78-9	PCB-16	U	108	108	pg/L	108
37680-66-3	PCB-17		60.2	58.7	pg/L	21.7
37680-65-2	PCB-18/30	C	92.3	91.3	pg/L	43.4
38444-73-4	PCB-19	U	21.7	21.7	pg/L	21.7
38444-84-7	PCB-20/28	C	401	400	pg/L	43.4
55702-46-0	PCB-21/33	C	228	228	pg/L	43.4
38444-85-8	PCB-22		177	176	pg/L	21.7
55720-44-0	PCB-23	U	21.7	21.7	pg/L	21.7
55702-45-9	PCB-24	U	21.7	21.7	pg/L	21.7
55712-37-3	PCB-25	U	21.7	21.7	pg/L	21.7
38444-81-4	PCB-26/29	C	49.8	48.8	pg/L	43.4
38444-76-7	PCB-27	U	21.7	21.7	pg/L	21.7
16606-02-3	PCB-31		263	263	pg/L	21.7
38444-77-8	PCB-32		49.9	49.1	pg/L	21.7
37680-68-5	PCB-34	U	21.7	21.7	pg/L	21.7
37680-69-6	PCB-35	U	21.7	21.7	pg/L	21.7
38444-87-0	PCB-36	U	21.7	21.7	pg/L	21.7
38444-90-5	PCB-37		139	138	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3603	Client: LANL001	Project: LANL00109
Lab Sample ID: 2781002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPLAP-11-10537		Prep Basis: As Received
Batch ID: 19643	Method: EPA Method 1668A	
Run Date: 10/03/2011 16:57	Analyst: MJC	Instrument: HRP791
Data File: c03oct11a-5		Dilution: 1
Prep Batch: 19638	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 28-SEP-11	Aliquot: 922 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.7	21.7	pg/L	21.7
38444-88-1	PCB-39	U	21.7	21.7	pg/L	21.7
38444-93-8	PCB-40/71	C	226	224	pg/L	43.4
52663-59-9	PCB-41	U	108	108	pg/L	108
36559-22-5	PCB-42		113	111	pg/L	21.7
70362-46-8	PCB-43	U	21.7	21.7	pg/L	21.7
41464-39-5	PCB-44/65/47	CU	65.1	65.1	pg/L	65.1
70362-45-7	PCB-45/51	C	73.1	72.1	pg/L	43.4
41464-47-5	PCB-46		32.6	31.3	pg/L	21.7
70362-47-9	PCB-48		88.2	86.3	pg/L	21.7
41464-40-8	PCB-69/49	C	184	182	pg/L	43.4
62796-65-0	PCB-50/53	CU	43.4	43.4	pg/L	43.4
35693-99-3	PCB-52		317	315	pg/L	21.7
15968-05-5	PCB-54	U	21.7	21.7	pg/L	21.7
74338-24-2	PCB-55	U	21.7	21.7	pg/L	21.7
41464-43-1	PCB-56		41.9	40.5	pg/L	21.7
70424-67-8	PCB-57	U	21.7	21.7	pg/L	21.7
41464-49-7	PCB-58	U	21.7	21.7	pg/L	21.7
74472-33-6	PCB-59/62/75	CU	65.1	65.1	pg/L	65.1
33025-41-1	PCB-60	U	21.7	21.7	pg/L	21.7
33284-53-6	PCB-61/76/70/74	C	267	266	pg/L	86.8
74472-34-7	PCB-63	U	21.7	21.7	pg/L	21.7
52663-58-8	PCB-64		180	178	pg/L	21.7
32598-10-0	PCB-66		115	114	pg/L	21.7
73575-53-8	PCB-67	U	21.7	21.7	pg/L	21.7
73575-52-7	PCB-68	U	21.7	21.7	pg/L	21.7
41464-42-0	PCB-72	U	21.7	21.7	pg/L	21.7
74338-23-1	PCB-73	U	21.7	21.7	pg/L	21.7
32598-13-3	PCB-77	U	21.7	21.7	pg/L	21.7
70362-49-1	PCB-78	U	21.7	21.7	pg/L	21.7
41464-48-6	PCB-79	U	21.7	21.7	pg/L	21.7
33284-52-5	PCB-80	U	21.7	21.7	pg/L	21.7

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3603	Client: LANL001	Project: LANL00109
Lab Sample ID: 2781002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPLAP-11-10537		Prep Basis: As Received
Batch ID: 19643	Method: EPA Method 1668A	
Run Date: 10/03/2011 16:57	Analyst: MJC	Instrument: HRP791
Data File: c03oct11a-5		Dilution: 1
Prep Batch: 19638	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 28-SEP-11	Aliquot: 922 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.7	21.7	pg/L	21.7
52663-62-4	PCB-82	U	21.7	21.7	pg/L	21.7
60145-20-2	PCB-83	U	21.7	21.7	pg/L	21.7
52663-60-2	PCB-84		38.3	36.6	pg/L	21.7
65510-45-4	PCB-117/116/85	CU	65.1	65.1	pg/L	65.1
55312-69-1	PCB-86/87/97/109/119/125	CU	130	130	pg/L	130
55215-17-3	PCB-88/91	CU	43.4	43.4	pg/L	43.4
73575-57-2	PCB-89	U	21.7	21.7	pg/L	21.7
68194-07-0	PCB-113/90/101	BC	115	113	pg/L	65.1
52663-61-3	PCB-92	U	21.7	21.7	pg/L	21.7
73575-56-1	PCB-93/100	CU	43.4	43.4	pg/L	43.4
73575-55-0	PCB-94	U	21.7	21.7	pg/L	21.7
38379-99-6	PCB-95		123	121	pg/L	21.7
73575-54-9	PCB-96	U	21.7	21.7	pg/L	21.7
60233-25-2	PCB-102/98	CU	43.4	43.4	pg/L	43.4
38380-01-7	PCB-99	U	108	108	pg/L	108
60145-21-3	PCB-103	U	21.7	21.7	pg/L	21.7
56558-16-8	PCB-104	U	21.7	21.7	pg/L	21.7
32598-14-4	PCB-105	U	108	108	pg/L	108
70424-69-0	PCB-106	U	21.7	21.7	pg/L	21.7
70424-68-9	PCB-107	U	21.7	21.7	pg/L	21.7
70362-41-3	PCB-108/124	CU	43.4	43.4	pg/L	43.4
38380-03-9	PCB-110/115	CU	43.4	43.4	pg/L	43.4
39635-32-0	PCB-111	U	21.7	21.7	pg/L	21.7
74472-36-9	PCB-112	U	21.7	21.7	pg/L	21.7
74472-37-0	PCB-114	U	21.7	21.7	pg/L	21.7
31508-00-6	PCB-118		90.7	89.4	pg/L	21.7
68194-12-7	PCB-120	U	21.7	21.7	pg/L	21.7
56558-18-0	PCB-121	U	21.7	21.7	pg/L	21.7
76842-07-4	PCB-122	U	21.7	21.7	pg/L	21.7
65510-44-3	PCB-123	U	108	108	pg/L	108
57465-28-8	PCB-126	U	21.7	21.7	pg/L	21.7

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 4 of 7

SDG Number: 11-3603
Lab Sample ID: 2781002
Client Sample: 1668A Water
Client ID: WT_IPLAP-11-10537
Batch ID: 19643
Run Date: 10/03/2011 16:57
Data File: c03oct11a-5
Prep Batch: 19638
Prep Date: 28-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/15/2011 10:21

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 922 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.7	21.7	pg/L	21.7
38380-07-3	PCB-128/166	C	54.7	52.9	pg/L	43.4
55215-18-4	PCB-138/163/129	C	601	599	pg/L	65.1
52663-66-8	PCB-130		27.2	24.8	pg/L	21.7
61798-70-7	PCB-131	U	21.7	21.7	pg/L	21.7
38380-05-1	PCB-132		130	128	pg/L	21.7
35694-04-3	PCB-133	U	21.7	21.7	pg/L	21.7
52704-70-8	PCB-134	U	108	108	pg/L	108
52744-13-5	PCB-151/135	C	171	169	pg/L	43.4
38411-22-2	PCB-136		40.8	39.7	pg/L	21.7
35694-06-5	PCB-137	U	21.7	21.7	pg/L	21.7
56030-56-9	PCB-139/140	CU	43.4	43.4	pg/L	43.4
52712-04-6	PCB-141		127	124	pg/L	21.7
41411-61-4	PCB-142	U	21.7	21.7	pg/L	21.7
68194-15-0	PCB-143	U	21.7	21.7	pg/L	21.7
68194-14-9	PCB-144	U	21.7	21.7	pg/L	21.7
74472-40-5	PCB-145	U	21.7	21.7	pg/L	21.7
51908-16-8	PCB-146		104	102	pg/L	21.7
68194-13-8	PCB-147/149	C	458	451	pg/L	43.4
74472-41-6	PCB-148	U	21.7	21.7	pg/L	21.7
68194-08-1	PCB-150	U	21.7	21.7	pg/L	21.7
68194-09-2	PCB-152	U	21.7	21.7	pg/L	21.7
35065-27-1	PCB-153/168	C	519	517	pg/L	43.4
60145-22-4	PCB-154	U	21.7	21.7	pg/L	21.7
33979-03-2	PCB-155	U	21.7	21.7	pg/L	21.7
38380-08-4	PCB-156/157	CU	43.4	43.4	pg/L	43.4
74472-42-7	PCB-158		53.3	51.5	pg/L	21.7
39635-35-3	PCB-159	U	21.7	21.7	pg/L	21.7
41411-62-5	PCB-160	U	21.7	21.7	pg/L	21.7
74472-43-8	PCB-161	U	21.7	21.7	pg/L	21.7
39635-34-2	PCB-162	U	21.7	21.7	pg/L	21.7
74472-45-0	PCB-164		53.0	50.9	pg/L	21.7

Comments:

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C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3603	Client: LANL001	Project: LANL00109
Lab Sample ID: 2781002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPLAP-11-10537		Prep Basis: As Received
Batch ID: 19643	Method: EPA Method 1668A	
Run Date: 10/03/2011 16:57	Analyst: MJC	Instrument: HRP791
Data File: c03oct11a-5		Dilution: 1
Prep Batch: 19638	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 28-SEP-11	Aliquot: 922 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.7	21.7	pg/L	21.7
52663-72-6	PCB-167		24.6	23.5	pg/L	21.7
32774-16-6	PCB-169	U	21.7	21.7	pg/L	21.7
35065-30-6	PCB-170		202	201	pg/L	21.7
52663-71-5	PCB-173/171	C	70.4	68.9	pg/L	43.4
52663-74-8	PCB-172		47.7	46.3	pg/L	21.7
38411-25-5	PCB-174		264	262	pg/L	21.7
40186-70-7	PCB-175	U	21.7	21.7	pg/L	21.7
52663-65-7	PCB-176		25.6	24.5	pg/L	21.7
52663-70-4	PCB-177		141	139	pg/L	21.7
52663-67-9	PCB-178		55.3	53.8	pg/L	21.7
52663-64-6	PCB-179		93.8	92.7	pg/L	21.7
35065-29-3	PCB-193/180	C	513	512	pg/L	43.4
74472-47-2	PCB-181	U	21.7	21.7	pg/L	21.7
60145-23-5	PCB-182	U	21.7	21.7	pg/L	21.7
52663-69-1	PCB-183/185	C	141	139	pg/L	43.4
74472-48-3	PCB-184	U	21.7	21.7	pg/L	21.7
74472-49-4	PCB-186	U	21.7	21.7	pg/L	21.7
52663-68-0	PCB-187		313	311	pg/L	21.7
74487-85-7	PCB-188	U	21.7	21.7	pg/L	21.7
39635-31-9	PCB-189	U	21.7	21.7	pg/L	21.7
41411-64-7	PCB-190		49.0	47.8	pg/L	21.7
74472-50-7	PCB-191	U	21.7	21.7	pg/L	21.7
74472-51-8	PCB-192	U	21.7	21.7	pg/L	21.7
35694-08-7	PCB-194		110	109	pg/L	21.7
52663-78-2	PCB-195		44.5	43.5	pg/L	21.7
42740-50-1	PCB-196		56.1	54.9	pg/L	21.7
33091-17-7	PCB-197/200	CU	43.4	43.4	pg/L	43.4
68194-17-2	PCB-198/199	C	124	123	pg/L	43.4
40186-71-8	PCB-201	U	21.7	21.7	pg/L	21.7
2136-99-4	PCB-202		27.6	26.6	pg/L	21.7
52663-76-0	PCB-203		80.0	78.8	pg/L	21.7

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3603	Client: LANL001	Project: LANL00109
Lab Sample ID: 2781002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPLAP-11-10537		Prep Basis: As Received
Batch ID: 19643	Method: EPA Method 1668A	
Run Date: 10/03/2011 16:57	Analyst: MJC	Instrument: HRP791
Data File: c03oct11a-5		Dilution: 1
Prep Batch: 19638	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 28-SEP-11	Aliquot: 922 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.7	21.7	pg/L	21.7
74472-53-0	PCB-205	U	21.7	21.7	pg/L	21.7
40186-72-9	PCB-206		56.5	55.3	pg/L	21.7
52663-79-3	PCB-207	U	21.7	21.7	pg/L	21.7
52663-77-1	PCB-208	U	21.7	21.7	pg/L	21.7
2051-24-3	PCB-209	U	21.7	21.7	pg/L	21.7
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		130	125	pg/L	
25323-68-6	Total Tri PCBs		1460	1450	pg/L	
26914-33-0	Total Tetra PCBs		1640	1620	pg/L	
25429-29-2	Total Penta PCBs		161	247	pg/L	
26601-64-9	Total Hexa PCBs		2360	2330	pg/L	
28655-71-2	Total Hepta PCBs		1910	1900	pg/L	
55722-26-4	Total Octa PCBs		442	436	pg/L	
53742-07-7	Total Nona PCBs		56.5	55.3	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		8170	8170	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		963	2170	pg/L	44.4	(15%-150%)
13C-3-MoCB		1200	2170	pg/L	55.5	(15%-150%)
13C-4-DiCB		1060	2170	pg/L	48.8	(25%-150%)
13C-15-DiCB		1930	2170	pg/L	88.8	(25%-150%)
13C-19-TrCB		1630	2170	pg/L	74.9	(25%-150%)
13C-37-TrCB		2290	2170	pg/L	106	(25%-150%)
13C-54-TeCB		1720	2170	pg/L	79.3	(25%-150%)
13C-77-TeCB		2120	2170	pg/L	97.8	(25%-150%)
13C-81-TeCB		2100	2170	pg/L	96.6	(25%-150%)
13C-104-PeCB		1770	2170	pg/L	81.7	(25%-150%)
13C-105-PeCB		2060	2170	pg/L	94.9	(25%-150%)
13C-114-PeCB		2000	2170	pg/L	92.2	(25%-150%)
13C-118-PeCB		1990	2170	pg/L	92.0	(25%-150%)
13C-123-PeCB		2100	2170	pg/L	96.9	(25%-150%)
13C-126-PeCB		2090	2170	pg/L	96.2	(25%-150%)
13C-155-HxCB		1930	2170	pg/L	89.0	(25%-150%)
13C-156-HxCB	C	3860	4340	pg/L	89.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1830	2170	pg/L	84.3	(25%-150%)
13C-169-HxCB		2250	2170	pg/L	104	(25%-150%)
13C-188-HpCB		1330	2170	pg/L	61.5	(25%-150%)
13C-189-HpCB		1420	2170	pg/L	65.5	(25%-150%)
13C-202-OcCB		1480	2170	pg/L	68.3	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 7 of 7

SDG Number: 11-3603	Client: LANL001	Project: LANL00109
Lab Sample ID: 2781002	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/15/2011 10:21	
Client ID: WT_IPLAP-11-10537		Prep Basis: As Received
Batch ID: 19643	Method: EPA Method 1668A	
Run Date: 10/03/2011 16:57	Analyst: MJC	Instrument: HRP791
Data File: c03oct11a-5		Dilution: 1
Prep Batch: 19638	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 28-SEP-11	Aliquot: 922 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			2130	2170	pg/L	98.4 (25%-150%)
13C-206-NoCB			2300	2170	pg/L	106 (25%-150%)
13C-208-NoCB			1640	2170	pg/L	75.5 (25%-150%)
13C-209-DeCB			1980	2170	pg/L	91.4 (25%-150%)
13C-28-TrCB			2150	2170	pg/L	99.3 (30%-135%)
13C-111-PeCB			2300	2170	pg/L	106 (30%-135%)
13C-178-HpCB			2420	2170	pg/L	111 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3605	Client: LANL001	Project: LANL00109
Lab Sample ID: 2782001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPMOR-11-10862		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 18:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-8		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 919.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21.8	21.8	pg/L	21.8
2051-61-8	PCB-2	U	21.8	21.8	pg/L	21.8
2051-62-9	PCB-3	U	21.8	21.8	pg/L	21.8
13029-08-8	PCB-4	U	109	109	pg/L	109
16605-91-7	PCB-5	U	21.8	21.8	pg/L	21.8
25569-80-6	PCB-6	U	21.8	21.8	pg/L	21.8
33284-50-3	PCB-7	U	21.8	21.8	pg/L	21.8
34883-43-7	PCB-8	U	21.8	21.8	pg/L	21.8
34883-39-1	PCB-9	U	21.8	21.8	pg/L	21.8
33146-45-1	PCB-10	U	109	109	pg/L	109
2050-67-1	PCB-11	B	152	149	pg/L	109
2974-92-7	PCB-13/12	CU	43.5	43.5	pg/L	43.5
34883-41-5	PCB-14	U	21.8	21.8	pg/L	21.8
2050-68-2	PCB-15		30.5	28.2	pg/L	21.8
38444-78-9	PCB-16	U	109	109	pg/L	109
37680-66-3	PCB-17		27.5	25.9	pg/L	21.8
37680-65-2	PCB-18/30	CU	43.5	43.5	pg/L	43.5
38444-73-4	PCB-19	U	21.8	21.8	pg/L	21.8
38444-84-7	PCB-20/28	C	134	133	pg/L	43.5
55702-46-0	PCB-21/33	CU	44.2	43.5	pg/L	43.5
38444-85-8	PCB-22		46.9	46	pg/L	21.8
55720-44-0	PCB-23	U	21.8	21.8	pg/L	21.8
55702-45-9	PCB-24	U	21.8	21.8	pg/L	21.8
55712-37-3	PCB-25	U	21.8	21.8	pg/L	21.8
38444-81-4	PCB-26/29	CU	43.5	43.5	pg/L	43.5
38444-76-7	PCB-27	U	21.8	21.8	pg/L	21.8
16606-02-3	PCB-31		81.9	81	pg/L	21.8
38444-77-8	PCB-32	U	21.8	21.8	pg/L	21.8
37680-68-5	PCB-34	U	21.8	21.8	pg/L	21.8
37680-69-6	PCB-35	U	21.8	21.8	pg/L	21.8
38444-87-0	PCB-36	U	21.8	21.8	pg/L	21.8
38444-90-5	PCB-37		62.9	61.9	pg/L	21.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3605	Client: LANL001	Project: LANL00109
Lab Sample ID: 2782001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPMOR-11-10862		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 18:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-8		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 919.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21.8	21.8	pg/L	21.8
38444-88-1	PCB-39	U	21.8	21.8	pg/L	21.8
38444-93-8	PCB-40/71	CU	43.5	43.5	pg/L	43.5
52663-59-9	PCB-41	U	109	109	pg/L	109
36559-22-5	PCB-42	U	21.8	21.8	pg/L	21.8
70362-46-8	PCB-43	U	21.8	21.8	pg/L	21.8
41464-39-5	PCB-44/65/47	CU	65.3	65.3	pg/L	65.3
70362-45-7	PCB-45/51	CU	43.5	43.5	pg/L	43.5
41464-47-5	PCB-46	U	21.8	21.8	pg/L	21.8
70362-47-9	PCB-48	U	21.8	21.8	pg/L	21.8
41464-40-8	PCB-69/49	C	80.4	78.8	pg/L	43.5
62796-65-0	PCB-50/53	CU	43.5	43.5	pg/L	43.5
35693-99-3	PCB-52	U	21.8	21.8	pg/L	21.8
15968-05-5	PCB-54	U	21.8	21.8	pg/L	21.8
74338-24-2	PCB-55	U	21.8	21.8	pg/L	21.8
41464-43-1	PCB-56		102	101	pg/L	21.8
70424-67-8	PCB-57	U	21.8	21.8	pg/L	21.8
41464-49-7	PCB-58	U	21.8	21.8	pg/L	21.8
74472-33-6	PCB-59/62/75	CU	65.3	65.3	pg/L	65.3
33025-41-1	PCB-60		42.7	41.5	pg/L	21.8
33284-53-6	PCB-61/76/70/74	C	386	385	pg/L	87.0
74472-34-7	PCB-63	U	21.8	21.8	pg/L	21.8
52663-58-8	PCB-64	U	21.8	21.8	pg/L	21.8
32598-10-0	PCB-66	U	21.8	21.8	pg/L	21.8
73575-53-8	PCB-67	U	21.8	21.8	pg/L	21.8
73575-52-7	PCB-68	U	21.8	21.8	pg/L	21.8
41464-42-0	PCB-72	U	21.8	21.8	pg/L	21.8
74338-23-1	PCB-73	U	21.8	21.8	pg/L	21.8
32598-13-3	PCB-77		84.9	83.8	pg/L	21.8
70362-49-1	PCB-78	U	21.8	21.8	pg/L	21.8
41464-48-6	PCB-79	U	21.8	21.8	pg/L	21.8
33284-52-5	PCB-80	U	21.8	21.8	pg/L	21.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3605	Client: LANL001	Project: LANL00109
Lab Sample ID: 2782001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPMOR-11-10862		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 18:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-8		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 919.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21.8	21.8	pg/L	21.8
52663-62-4	PCB-82		134	132	pg/L	21.8
60145-20-2	PCB-83		55.9	54.4	pg/L	21.8
52663-60-2	PCB-84		241	240	pg/L	21.8
65510-45-4	PCB-117/116/85	C	179	178	pg/L	65.3
55312-69-1	PCB-86/87/97/109/119/125	C	768	766	pg/L	131
55215-17-3	PCB-88/91	C	96.2	95	pg/L	43.5
73575-57-2	PCB-89	U	21.8	21.8	pg/L	21.8
68194-07-0	PCB-113/90/101	C	1050	1050	pg/L	65.3
52663-61-3	PCB-92		177	176	pg/L	21.8
73575-56-1	PCB-93/100	CU	43.5	43.5	pg/L	43.5
73575-55-0	PCB-94	U	21.8	21.8	pg/L	21.8
38379-99-6	PCB-95		572	571	pg/L	21.8
73575-54-9	PCB-96	U	21.8	21.8	pg/L	21.8
60233-25-2	PCB-102/98	CU	43.5	43.5	pg/L	43.5
38380-01-7	PCB-99		340	338	pg/L	109
60145-21-3	PCB-103	U	21.8	21.8	pg/L	21.8
56558-16-8	PCB-104	U	21.8	21.8	pg/L	21.8
32598-14-4	PCB-105		552	551	pg/L	109
70424-69-0	PCB-106	U	21.8	21.8	pg/L	21.8
70424-68-9	PCB-107		91.3	89.8	pg/L	21.8
70362-41-3	PCB-108/124	C	54.1	52.8	pg/L	43.5
38380-03-9	PCB-110/115	CU	43.5	43.5	pg/L	43.5
39635-32-0	PCB-111	U	21.8	21.8	pg/L	21.8
74472-36-9	PCB-112	U	21.8	21.8	pg/L	21.8
74472-37-0	PCB-114	U	22.9	21.8	pg/L	21.8
31508-00-6	PCB-118		1210	1210	pg/L	21.8
68194-12-7	PCB-120	U	21.8	21.8	pg/L	21.8
56558-18-0	PCB-121	U	21.8	21.8	pg/L	21.8
76842-07-4	PCB-122	U	21.8	21.8	pg/L	21.8
65510-44-3	PCB-123	U	109	109	pg/L	109
57465-28-8	PCB-126		30.6	29.2	pg/L	21.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3605	Client: LANL001	Project: LANL00109
Lab Sample ID: 2782001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPMOR-11-10862		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 18:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-8		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 919.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21.8	21.8	pg/L	21.8
38380-07-3	PCB-128/166	C	514	512	pg/L	43.5
55215-18-4	PCB-138/163/129	C	3660	3660	pg/L	65.3
52663-66-8	PCB-130		205	203	pg/L	21.8
61798-70-7	PCB-131		31.4	29	pg/L	21.8
38380-05-1	PCB-132		963	961	pg/L	21.8
35694-04-3	PCB-133		39.9	37.6	pg/L	21.8
52704-70-8	PCB-134		146	143	pg/L	109
52744-13-5	PCB-151/135	C	914	913	pg/L	43.5
38411-22-2	PCB-136		280	279	pg/L	21.8
35694-06-5	PCB-137		111	109	pg/L	21.8
56030-56-9	PCB-139/140	CU	43.5	43.5	pg/L	43.5
52712-04-6	PCB-141		671	668	pg/L	21.8
41411-61-4	PCB-142	U	21.8	21.8	pg/L	21.8
68194-15-0	PCB-143	U	21.8	21.8	pg/L	21.8
68194-14-9	PCB-144		112	111	pg/L	21.8
74472-40-5	PCB-145	U	21.8	21.8	pg/L	21.8
51908-16-8	PCB-146		515	513	pg/L	21.8
68194-13-8	PCB-147/149	C	2380	2380	pg/L	43.5
74472-41-6	PCB-148	U	21.8	21.8	pg/L	21.8
68194-08-1	PCB-150	U	21.8	21.8	pg/L	21.8
68194-09-2	PCB-152	U	21.8	21.8	pg/L	21.8
35065-27-1	PCB-153/168	C	2540	2540	pg/L	43.5
60145-22-4	PCB-154		26.9	25.4	pg/L	21.8
33979-03-2	PCB-155	U	21.8	21.8	pg/L	21.8
38380-08-4	PCB-156/157	C	366	364	pg/L	43.5
74472-42-7	PCB-158		375	373	pg/L	21.8
39635-35-3	PCB-159	U	21.8	21.8	pg/L	21.8
41411-62-5	PCB-160	U	21.8	21.8	pg/L	21.8
74472-43-8	PCB-161	U	21.8	21.8	pg/L	21.8
39635-34-2	PCB-162	U	21.8	21.8	pg/L	21.8
74472-45-0	PCB-164		321	319	pg/L	21.8

Comments:

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U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3605	Client: LANL001	Project: LANL00109
Lab Sample ID: 2782001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPMOR-11-10862		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 18:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-8		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 919.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21.8	21.8	pg/L	21.8
52663-72-6	PCB-167		163	162	pg/L	21.8
32774-16-6	PCB-169	U	21.8	21.8	pg/L	21.8
35065-30-6	PCB-170		934	933	pg/L	21.8
52663-71-5	PCB-173/171	C	286	285	pg/L	43.5
52663-74-8	PCB-172		159	157	pg/L	21.8
38411-25-5	PCB-174		1040	1040	pg/L	21.8
40186-70-7	PCB-175		36.2	34.8	pg/L	21.8
52663-65-7	PCB-176		96.4	95.3	pg/L	21.8
52663-70-4	PCB-177		508	507	pg/L	21.8
52663-67-9	PCB-178		189	187	pg/L	21.8
52663-64-6	PCB-179		348	347	pg/L	21.8
35065-29-3	PCB-193/180	CU	43.5	43.5	pg/L	43.5
74472-47-2	PCB-181	U	21.8	21.8	pg/L	21.8
60145-23-5	PCB-182	U	21.8	21.8	pg/L	21.8
52663-69-1	PCB-183/185	C	527	526	pg/L	43.5
74472-48-3	PCB-184	U	21.8	21.8	pg/L	21.8
74472-49-4	PCB-186	U	21.8	21.8	pg/L	21.8
52663-68-0	PCB-187		1050	1050	pg/L	21.8
74487-85-7	PCB-188	U	21.8	21.8	pg/L	21.8
39635-31-9	PCB-189		43.4	42.3	pg/L	21.8
41411-64-7	PCB-190		185	183	pg/L	21.8
74472-50-7	PCB-191		35.1	34	pg/L	21.8
74472-51-8	PCB-192	U	21.8	21.8	pg/L	21.8
35694-08-7	PCB-194		406	405	pg/L	21.8
52663-78-2	PCB-195		169	168	pg/L	21.8
42740-50-1	PCB-196		200	198	pg/L	21.8
33091-17-7	PCB-197/200	CU	43.5	43.5	pg/L	43.5
68194-17-2	PCB-198/199	C	458	457	pg/L	43.5
40186-71-8	PCB-201		46.8	45.8	pg/L	21.8
2136-99-4	PCB-202		72.8	71.8	pg/L	21.8
52663-76-0	PCB-203		249	248	pg/L	21.8

Comments:

- B** The target analyte was detected in the associated blank.
C Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for , but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3605
Lab Sample ID: 2782001
Client Sample: 1668A Water
Client ID: WT_IPMOR-11-10862
Batch ID: 19628
Run Date: 10/02/2011 18:46
Data File: c01oct11a_3-8
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/07/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 919.1 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21.8	21.8	pg/L	21.8
74472-53-0	PCB-205		22.9	22.2	pg/L	21.8
40186-72-9	PCB-206		151	150	pg/L	21.8
52663-79-3	PCB-207	U	21.8	21.8	pg/L	21.8
52663-77-1	PCB-208		39.2	38.2	pg/L	21.8
2051-24-3	PCB-209		34.4	33.2	pg/L	21.8
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		30.5	28.2	pg/L	
25323-68-6	Total Tri PCBs		397	348	pg/L	
26914-33-0	Total Tetra PCBs		696	690	pg/L	
25429-29-2	Total Penta PCBs		5570	5530	pg/L	
26601-64-9	Total Hexa PCBs		14300	14300	pg/L	
28655-71-2	Total Hepta PCBs		5440	5420	pg/L	
55722-26-4	Total Octa PCBs		1620	1620	pg/L	
53742-07-7	Total Nona PCBs		190	188	pg/L	
2051-24-3	Total Deca PCB		34.4	33.2	pg/L	
	Total PCB Congeners		28300	28100	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		1190	2180	pg/L	54.9	(15%-150%)
13C-3-MoCB		1440	2180	pg/L	66.1	(15%-150%)
13C-4-DiCB		1350	2180	pg/L	62.1	(25%-150%)
13C-15-DiCB		2030	2180	pg/L	93.1	(25%-150%)
13C-19-TrCB		1840	2180	pg/L	84.3	(25%-150%)
13C-37-TrCB		2080	2180	pg/L	95.8	(25%-150%)
13C-54-TeCB		1510	2180	pg/L	69.4	(25%-150%)
13C-77-TeCB		2160	2180	pg/L	99.2	(25%-150%)
13C-81-TeCB		2120	2180	pg/L	97.3	(25%-150%)
13C-104-PeCB		1550	2180	pg/L	71.2	(25%-150%)
13C-105-PeCB		1840	2180	pg/L	84.4	(25%-150%)
13C-114-PeCB		1770	2180	pg/L	81.2	(25%-150%)
13C-118-PeCB		1780	2180	pg/L	81.9	(25%-150%)
13C-123-PeCB		1880	2180	pg/L	86.5	(25%-150%)
13C-126-PeCB		1870	2180	pg/L	86.0	(25%-150%)
13C-155-HxCB		1790	2180	pg/L	82.3	(25%-150%)
13C-156-HxCB	C	3380	4350	pg/L	77.6	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1610	2180	pg/L	74.0	(25%-150%)
13C-169-HxCB		1960	2180	pg/L	90.2	(25%-150%)
13C-188-HpCB		1420	2180	pg/L	65.5	(25%-150%)
13C-189-HpCB		1360	2180	pg/L	62.4	(25%-150%)
13C-202-OcCB		1480	2180	pg/L	67.8	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3605	Client: LANL001	Project: LANL00109
Lab Sample ID: 2782001	Date Collected: 09/07/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPMOR-11-10862		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 18:46	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-8		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 919.1 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1920	2180	pg/L	88.1 (25%-150%)
13C-206-NoCB			2080	2180	pg/L	95.7 (25%-150%)
13C-208-NoCB			1630	2180	pg/L	75.1 (25%-150%)
13C-209-DeCB			1770	2180	pg/L	81.3 (25%-150%)
13C-28-TrCB			1500	2180	pg/L	69.0 (30%-135%)
13C-111-PeCB			1890	2180	pg/L	86.9 (30%-135%)
13C-178-HpCB			2010	2180	pg/L	92.3 (30%-135%)

Comments:

- B** The target analyte was detected in the associated blank.
- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
- U** Analyte was analyzed for , but not detected above the specified detection limit.

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2-Chlorobiphenyl (1)	pg/L	1.31	0.887	3.09	
3-Chlorobiphenyl (2)	pg/L	1.42	1.02	3.46	
4-Chlorobiphenyl (3)	pg/L	1	0.595	2.19	
2,2'-Dichlorobiphenyl (4)	pg/L	2.72	1.6	5.92	
2,3-Dichlorobiphenyl (5)	pg/L	1.64	0.99	3.62	
2,3'-Dichlorobiphenyl (6)	pg/L	1.35	0.685	2.72	
2,4-Dichlorobiphenyl (7)	pg/L	1.38	0.715	2.81	
2,4'-Dichlorobiphenyl (8)	pg/L	1.29	0.515	2.32	
2,5-Dichlorobiphenyl (9)	pg/L	1.59	0.891	3.37	
2,6-Dichlorobiphenyl (10)	pg/L	1.28	0.631	2.54	
3,3'-Dichlorobiphenyl (11)	pg/L	1.56	0.775	3.11	
3,4-Dichlorobiphenyl (12)	pg/L	1.7	0.721	3.14	
3,5-Dichlorobiphenyl (14)	pg/L	1.51	0.766	3.04	
4,4'-Dichlorobiphenyl (15)	pg/L	1.29	0.512	2.32	
2,2',3-Trichlorobiphenyl (16)	pg/L	0.748	0.375	1.5	
2,2',4-Trichlorobiphenyl (17)	pg/L	0.757	0.39	1.54	
2,2',5-Trichlorobiphenyl (18)	pg/L	0.515	0.258	1.03	
2,2',6-Trichlorobiphenyl (19)	pg/L	0.824	0.434	1.69	
2,3,3'-Trichlorobiphenyl (20)	pg/L	0.475	0.222	0.918	
2,3,4-Trichlorobiphenyl (21)	pg/L	0.458	0.197	0.851	
2,3,4'-Trichlorobiphenyl (22)	pg/L	0.512	0.212	0.936	
2,3,5-Trichlorobiphenyl (23)	pg/L	0.43	0.203	0.836	
2,3,6-Trichlorobiphenyl (24)	pg/L	0.443	0.23	0.903	
2,3',4-Trichlorobiphenyl (25)	pg/L	0.383	0.179	0.74	
2,3',5-Trichlorobiphenyl (26)	pg/L	0.51	0.227	0.964	
2,3',6-Trichlorobiphenyl (27)	pg/L	0.463	0.234	0.93	
2,4',5-Trichlorobiphenyl (31)	pg/L	0.417	0.199	0.815	
2,4',6-Trichlorobiphenyl (32)	pg/L	0.437	0.196	0.829	
2',3,5-Trichlorobiphenyl (34)	pg/L	0.47	0.23	0.93	
3,3',4-Trichlorobiphenyl (35)	pg/L	0.716	0.216	1.15	
3,3',5-Trichlorobiphenyl (36)	pg/L	0.662	0.194	1.05	
3,4,4'-Trichlorobiphenyl (37)	pg/L	0.614	0.174	0.962	
3,4,5-Trichlorobiphenyl (38)	pg/L	0.694	0.2	1.09	
3,4',5-Trichlorobiphenyl (39)	pg/L	0.619	0.18	0.979	
2,2',3,3'-Tetrachlorobiphenyl (40)	pg/L	1.08	0.421	1.92	
2,2',3,4-Tetrachlorobiphenyl (41)	pg/L	1.31	0.544	2.4	
2,2',3,4'-Tetrachlorobiphenyl (42)	pg/L	1.09	0.45	1.99	
2,2',3,5-Tetrachlorobiphenyl (43)	pg/L	1.53	0.692	2.91	
2,2',3,5'-Tetrachlorobiphenyl (44)	pg/L	1.14	0.403	1.95	
2,2',3,6-Tetrachlorobiphenyl (45)	pg/L	0.567	0.237	1.04	
2,2',3,6'-Tetrachlorobiphenyl (46)	pg/L	0.689	0.336	1.36	
2,2',4,5-Tetrachlorobiphenyl (48)	pg/L	1.04	0.415	1.87	
2,2',4,5'-Tetrachlorobiphenyl (49)	pg/L	0.955	0.358	1.67	
2,2',4,6-Tetrachlorobiphenyl (50)	pg/L	0.513	0.233	0.978	
2,2',5,5'-Tetrachlorobiphenyl (52)	pg/L	1.07	0.431	1.93	
2,2',6,6'-Tetrachlorobiphenyl (54)	pg/L	0.427	0.196	0.819	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3,3',4-Tetrachlorobiphenyl (55)	pg/L	0.727	0.22	1.17	
2,3,3',4'-Tetrachlorobiphenyl (56)	pg/L	0.872	0.26	1.39	
2,3,3',5-Tetrachlorobiphenyl (57)	pg/L	0.728	0.227	1.18	
2,3,3',5'-Tetrachlorobiphenyl (58)	pg/L	0.709	0.218	1.15	
2,3,3',6-Tetrachlorobiphenyl (59)	pg/L	0.903	0.299	1.5	
2,3,4,4'-Tetrachlorobiphenyl (60)	pg/L	0.739	0.23	1.2	
2,3,4,5-Tetrachlorobiphenyl (61)	pg/L	0.832	0.218	1.27	
2,3,4',5-Tetrachlorobiphenyl (63)	pg/L	0.699	0.211	1.12	
2,3,4',6-Tetrachlorobiphenyl (64)	pg/L	0.84	0.25	1.34	
2,3',4,4'-Tetrachlorobiphenyl (66)	pg/L	0.702	0.21	1.12	
2,3',4,5-Tetrachlorobiphenyl (67)	pg/L	0.772	0.231	1.23	
2,3',4,5'-Tetrachlorobiphenyl (68)	pg/L	0.644	0.196	1.04	
2,3',5,5'-Tetrachlorobiphenyl (72)	pg/L	0.693	0.221	1.14	
2,3',5,6-Tetrachlorobiphenyl (73)	pg/L	0.801	0.326	1.45	
3,3',4,4'-Tetrachlorobiphenyl (77)	pg/L	0.698	0.203	1.1	
3,3',4,5-Tetrachlorobiphenyl (78)	pg/L	0.746	0.212	1.17	
3,3',4,5'-Tetrachlorobiphenyl (79)	pg/L	0.652	0.181	1.01	
3,3',5,5'-Tetrachlorobiphenyl (80)	pg/L	0.781	0.233	1.25	
3,4,4',5-Tetrachlorobiphenyl (81)	pg/L	0.676	0.192	1.06	
2,2',3,3',4-Pentachlorobiphenyl (82)	pg/L	0.854	0.27	1.39	
2,2',3,3',5-Pentachlorobiphenyl (83)	pg/L	0.88	0.309	1.5	
2,2',3,3',6-Pentachlorobiphenyl (84)	pg/L	0.988	0.336	1.66	
2,2',3,4,4'-Pentachlorobiphenyl (85)	pg/L	0.713	0.182	1.08	
2,2',3,4,5-Pentachlorobiphenyl (86)	pg/L	0.731	0.175	1.08	
2,2',3,4,6-Pentachlorobiphenyl (88)	pg/L	0.81	0.201	1.21	
2,2',3,4,6'-Pentachlorobiphenyl (89)	pg/L	0.81	0.276	1.36	
2,2',3,4',5-Pentachlorobiphenyl (90)	pg/L	0.734	0.199	1.13	
2,2',3,5,5'-Pentachlorobiphenyl (92)	pg/L	0.782	0.267	1.32	
2,2',3,5,6-Pentachlorobiphenyl (93)	pg/L	0.789	0.283	1.36	
2,2',3,5,6'-Pentachlorobiphenyl (94)	pg/L	0.779	0.276	1.33	
2,2',3,5',6-Pentachlorobiphenyl (95)	pg/L	0.75	0.271	1.29	
2,2',3,6,6'-Pentachlorobiphenyl (96)	pg/L	0.459	0.259	0.976	
2,2',3',4,6-Pentachlorobiphenyl (98)	pg/L	0.847	0.225	1.3	
2,2',4,4',5-Pentachlorobiphenyl (99)	pg/L	0.645	0.228	1.1	
2,2',4,5',6-Pentachlorobiphenyl (103)	pg/L	0.704	0.257	1.22	
2,2',4,6,6'-Pentachlorobiphenyl (104)	pg/L	0.475	0.228	0.931	
2,3,3',4,4'-Pentachlorobiphenyl (105)	pg/L	0.806	0.249	1.3	
2,3,3',4,5-Pentachlorobiphenyl (106)	pg/L	0.802	0.271	1.34	
2,3,3',4',5-Pentachlorobiphenyl (107)	pg/L	0.886	0.299	1.48	
2,3,3',4,5'-Pentachlorobiphenyl (108)	pg/L	0.797	0.261	1.32	
2,3,3',4',6-Pentachlorobiphenyl (110)	pg/L	1.87	2.68	7.24	
2,3,3',5,5'-Pentachlorobiphenyl (111)	pg/L	0.549	0.175	0.899	
2,3,3',5,6-Pentachlorobiphenyl (112)	pg/L	0.699	0.222	1.14	
2,3,4,4',5-Pentachlorobiphenyl (114)	pg/L	0.832	0.267	1.37	
2,3',4,4',5-Pentachlorobiphenyl (118)	pg/L	0.786	0.251	1.29	
2,3',4,5,5'-Pentachlorobiphenyl (120)	pg/L	0.55	0.174	0.897	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,3',4,5',6-Pentachlorobiphenyl (121)	pg/L	0.556	0.19	0.935	
2',3,3',4,5-Pentachlorobiphenyl (122)	pg/L	0.852	0.287	1.43	
2',3,4,4',5-Pentachlorobiphenyl (123)	pg/L	0.748	0.244	1.24	
3,3',4,4',5-Pentachlorobiphenyl (126)	pg/L	0.859	0.271	1.4	
3,3',4,5,5'-Pentachlorobiphenyl (127)	pg/L	0.796	0.242	1.28	
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	pg/L	1.01	0.417	1.85	
2,2',3,3',4,5-Hexachlorobiphenyl (129)	pg/L	1.12	0.431	1.98	
2,2',3,3',4,5'-Hexachlorobiphenyl (130)	pg/L	1.3	0.55	2.4	
2,2',3,3',4,6-Hexachlorobiphenyl (131)	pg/L	1.28	0.565	2.41	
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	pg/L	1.24	0.539	2.31	
2,2',3,3',5,5'-Hexachlorobiphenyl (133)	pg/L	1.22	0.556	2.33	
2,2',3,3',5,6-Hexachlorobiphenyl (134)	pg/L	1.36	0.611	2.59	
2,2',3,3',5,6'-Hexachlorobiphenyl (135)	pg/L	0.771	0.263	1.3	
2,2',3,3',6,6'-Hexachlorobiphenyl (136)	pg/L	0.573	0.245	1.06	
2,2',3,4,4',5-Hexachlorobiphenyl (137)	pg/L	1.12	0.467	2.06	
2,2',3,4,4',6-Hexachlorobiphenyl (139)	pg/L	1.21	0.528	2.27	
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	pg/L	1.45	0.657	2.76	
2,2',3,4,5,6-Hexachlorobiphenyl (142)	pg/L	1.3	0.578	2.45	
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	pg/L	1.2	0.545	2.29	
2,2',3,4,5',6-Hexachlorobiphenyl (144)	pg/L	0.729	0.299	1.33	
2,2',3,4,6,6'-Hexachlorobiphenyl (145)	pg/L	0.565	0.24	1.05	
2,2',3,4',5,5'-Hexachlorobiphenyl (146)	pg/L	1.43	0.479	2.39	
2,2',3,4',5,6-Hexachlorobiphenyl (147)	pg/L	1.87	2.29	6.45	
2,2',3,4',5,6'-Hexachlorobiphenyl (148)	pg/L	0.726	0.282	1.29	
2,2',3,4',6,6'-Hexachlorobiphenyl (150)	pg/L	0.54	0.229	0.997	
2,2',3,5,6,6'-Hexachlorobiphenyl (152)	pg/L	0.548	0.238	1.02	
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	pg/L	0.931	0.381	1.69	
2,2',4,4',5',6-Hexachlorobiphenyl (154)	pg/L	0.773	0.326	1.42	
2,2',4,4',6,6'-Hexachlorobiphenyl (155)	pg/L	0.468	0.163	0.794	
2,3,3',4,4',5-Hexachlorobiphenyl (156)	pg/L	0.786	0.37	1.53	
2,3,3',4,4',6-Hexachlorobiphenyl (158)	pg/L	0.991	0.425	1.84	
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	pg/L	0.608	0.305	1.22	
2,3,3',4,5,6-Hexachlorobiphenyl (160)	pg/L	0.96	0.437	1.83	
2,3,3',4,5',6-Hexachlorobiphenyl (161)	pg/L	0.9	0.4	1.7	
2,3,3',4',5,5'-Hexachlorobiphenyl (162)	pg/L	0.583	0.287	1.16	
2,3,3',4',5',6-Hexachlorobiphenyl (164)	pg/L	1.11	0.497	2.1	
2,3,3',5,5',6-Hexachlorobiphenyl (165)	pg/L	0.953	0.417	1.79	
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	pg/L	0.622	0.273	1.17	
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	pg/L	0.634	0.288	1.21	
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	pg/L	0.864	0.298	1.46	
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	pg/L	0.922	0.319	1.56	
2,2',3,3',4,5,5'-Heptachlorobiphenyl (172)	pg/L	0.84	0.314	1.47	
2,2',3,3',4,5,6'-Heptachlorobiphenyl (174)	pg/L	0.916	0.37	1.66	
2,2',3,3',4,5',6-Heptachlorobiphenyl (175)	pg/L	0.696	0.346	1.39	
2,2',3,3',4,6,6'-Heptachlorobiphenyl (176)	pg/L	0.548	0.277	1.1	
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	pg/L	0.818	0.329	1.48	

Blank Population Summary

Method 1668 HRMS Aqueous Analysis for 01-SEP-11 to 30-SEP-11

Analyte	Units	Average	Stdev	MBCV	*
2,2',3,3',5,5',6-Heptachlorobiphenyl (178)	pg/L	0.737	0.365	1.47	
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)	pg/L	0.538	0.27	1.08	
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	pg/L	0.797	0.257	1.31	
2,2',3,4,4',5,6-Heptachlorobiphenyl (181)	pg/L	0.745	0.294	1.33	
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	pg/L	0.833	0.412	1.66	
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	pg/L	0.777	0.255	1.29	
2,2',3,4,4',6,6'-Heptachlorobiphenyl (184)	pg/L	0.505	0.253	1.01	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (186)	pg/L	0.54	0.269	1.08	
2,2',3,4,5,5',6-Heptachlorobiphenyl (187)	pg/L	0.643	0.315	1.27	
2,2',3,4,5,6,6'-Heptachlorobiphenyl (188)	pg/L	0.517	0.242	1	
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	pg/L	0.628	0.241	1.11	
2,3,3',4,4',5,6-Heptachlorobiphenyl (190)	pg/L	0.662	0.225	1.11	
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	pg/L	0.631	0.225	1.08	
2,3,3',4,5,5',6-Heptachlorobiphenyl (192)	pg/L	0.638	0.233	1.1	
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	pg/L	0.522	0.19	0.902	
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	pg/L	0.578	0.204	0.985	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	pg/L	0.567	0.359	1.29	
2,2',3,3',4,4',6,6'-Octachlorobiphenyl (197)	pg/L	0.45	0.249	0.947	
2,2',3,3',4,5,5',6-Octachlorobiphenyl (198)	pg/L	0.602	0.334	1.27	
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	pg/L	0.429	0.277	0.983	
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	pg/L	0.457	0.264	0.985	
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	pg/L	0.515	0.327	1.17	
2,2',3,4,4',5,6,6'-Octachlorobiphenyl (204)	pg/L	0.434	0.274	0.982	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	pg/L	0.431	0.174	0.779	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	pg/L	0.667	0.274	1.21	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	pg/L	0.52	0.233	0.985	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	pg/L	0.531	0.227	0.986	
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (209)	pg/L	0.587	0.317	1.22	

* = PQL adjusted to the MBCV.

PCB Congeners
Certificate of Analysis
Sample Summary

Page 1 of 7

SDG Number: 11-3607
Lab Sample ID: 2783001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10659
Batch ID: 19628
Run Date: 10/02/2011 19:53
Data File: c01oct11a_3-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 951.8 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
2051-60-7	PCB-1	U	21	21	pg/L	21.0
2051-61-8	PCB-2	U	21	21	pg/L	21.0
2051-62-9	PCB-3	U	21	21	pg/L	21.0
13029-08-8	PCB-4	U	105	105	pg/L	105
16605-91-7	PCB-5	U	21	21	pg/L	21.0
25569-80-6	PCB-6	U	21	21	pg/L	21.0
33284-50-3	PCB-7	U	21	21	pg/L	21.0
34883-43-7	PCB-8	U	21	21	pg/L	21.0
34883-39-1	PCB-9	U	21	21	pg/L	21.0
33146-45-1	PCB-10	U	105	105	pg/L	105
2050-67-1	PCB-11	U	105	105	pg/L	105
2974-92-7	PCB-13/12	CU	42	42	pg/L	42.0
34883-41-5	PCB-14	U	21	21	pg/L	21.0
2050-68-2	PCB-15		24.0	21.7	pg/L	21.0
38444-78-9	PCB-16	U	105	105	pg/L	105
37680-66-3	PCB-17	U	21	21	pg/L	21.0
37680-65-2	PCB-18/30	CU	42	42	pg/L	42.0
38444-73-4	PCB-19	U	21	21	pg/L	21.0
38444-84-7	PCB-20/28	C	229	228	pg/L	42.0
55702-46-0	PCB-21/33	CU	42	42	pg/L	42.0
38444-85-8	PCB-22		88.3	87.4	pg/L	21.0
55720-44-0	PCB-23	U	21	21	pg/L	21.0
55702-45-9	PCB-24	U	21	21	pg/L	21.0
55712-37-3	PCB-25	U	21	21	pg/L	21.0
38444-81-4	PCB-26/29	CU	42	42	pg/L	42.0
38444-76-7	PCB-27	U	21	21	pg/L	21.0
16606-02-3	PCB-31		128	128	pg/L	21.0
38444-77-8	PCB-32		32.5	31.7	pg/L	21.0
37680-68-5	PCB-34	U	21	21	pg/L	21.0
37680-69-6	PCB-35	U	21	21	pg/L	21.0
38444-87-0	PCB-36	U	21	21	pg/L	21.0
38444-90-5	PCB-37		114	113	pg/L	21.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 2 of 7

SDG Number: 11-3607
 Lab Sample ID: 2783001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10659
 Batch ID: 19628
 Run Date: 10/02/2011 19:53
 Data File: c01oct11a_3-9
 Prep Batch: 19612
 Prep Date: 20-SEP-11

Client: LANL001
 Date Collected: 09/04/2011 12:00
 Date Received: 09/16/2011 09:35
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 951.8 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
53555-66-1	PCB-38	U	21	21	pg/L	21.0
38444-88-1	PCB-39	U	21	21	pg/L	21.0
38444-93-8	PCB-40/71	C	301	299	pg/L	42.0
52663-59-9	PCB-41	U	105	105	pg/L	105
36559-22-5	PCB-42	U	21	21	pg/L	21.0
70362-46-8	PCB-43	U	21	21	pg/L	21.0
41464-39-5	PCB-44/65/47	CU	63	63	pg/L	63.0
70362-45-7	PCB-45/51	CU	42	42	pg/L	42.0
41464-47-5	PCB-46	U	21.9	21	pg/L	21.0
70362-47-9	PCB-48		68.0	66.1	pg/L	21.0
41464-40-8	PCB-69/49	C	533	531	pg/L	42.0
62796-65-0	PCB-50/53	C	60.3	59.3	pg/L	42.0
35693-99-3	PCB-52		2350	2340	pg/L	21.0
15968-05-5	PCB-54	U	21	21	pg/L	21.0
74338-24-2	PCB-55	U	21	21	pg/L	21.0
41464-43-1	PCB-56		570	569	pg/L	21.0
70424-67-8	PCB-57	U	21	21	pg/L	21.0
41464-49-7	PCB-58		80.3	79.1	pg/L	21.0
74472-33-6	PCB-59/62/75	CU	63	63	pg/L	63.0
33025-41-1	PCB-60		190	188	pg/L	21.0
33284-53-6	PCB-61/76/70/74	C	2150	2140	pg/L	84.1
74472-34-7	PCB-63	U	21	21	pg/L	21.0
52663-58-8	PCB-64	U	21	21	pg/L	21.0
32598-10-0	PCB-66		850	849	pg/L	21.0
73575-53-8	PCB-67	U	21	21	pg/L	21.0
73575-52-7	PCB-68	U	21	21	pg/L	21.0
41464-42-0	PCB-72	U	21	21	pg/L	21.0
74338-23-1	PCB-73	U	21	21	pg/L	21.0
32598-13-3	PCB-77		265	264	pg/L	21.0
70362-49-1	PCB-78	U	21	21	pg/L	21.0
41464-48-6	PCB-79		42.9	41.9	pg/L	21.0
33284-52-5	PCB-80	U	21	21	pg/L	21.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

Page 3 of 7

SDG Number: 11-3607	Client: LANL001	Project: LANL00109
Lab Sample ID: 2783001	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPSAN-11-10659		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 19:53	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-9		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 951.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
70362-50-4	PCB-81	U	21	21	pg/L	21.0
52663-62-4	PCB-82		820	819	pg/L	21.0
60145-20-2	PCB-83		346	344	pg/L	21.0
52663-60-2	PCB-84		1710	1710	pg/L	21.0
65510-45-4	PCB-117/116/85	C	1250	1250	pg/L	63.0
55312-69-1	PCB-86/87/97/109/119/125	C	4950	4950	pg/L	126
55215-17-3	PCB-88/91	C	734	732	pg/L	42.0
73575-57-2	PCB-89		39.9	38.5	pg/L	21.0
68194-07-0	PCB-113/90/101	C	6810	6810	pg/L	63.0
52663-61-3	PCB-92		1210	1210	pg/L	21.0
73575-56-1	PCB-93/100	CU	42	42	pg/L	42.0
73575-55-0	PCB-94	U	21	21	pg/L	21.0
38379-99-6	PCB-95		4220	4220	pg/L	21.0
73575-54-9	PCB-96		24.4	23.4	pg/L	21.0
60233-25-2	PCB-102/98	C	117	116	pg/L	42.0
38380-01-7	PCB-99		2480	2480	pg/L	105
60145-21-3	PCB-103		22.6	21.4	pg/L	21.0
56558-16-8	PCB-104	U	21	21	pg/L	21.0
32598-14-4	PCB-105		2650	2650	pg/L	105
70424-69-0	PCB-106	U	21	21	pg/L	21.0
70424-68-9	PCB-107		447	445	pg/L	21.0
70362-41-3	PCB-108/124	C	263	262	pg/L	42.0
38380-03-9	PCB-110/115	CU	42	42	pg/L	42.0
39635-32-0	PCB-111	U	21	21	pg/L	21.0
74472-36-9	PCB-112	U	21	21	pg/L	21.0
74472-37-0	PCB-114		107	106	pg/L	21.0
31508-00-6	PCB-118		6170	6170	pg/L	21.0
68194-12-7	PCB-120	U	21	21	pg/L	21.0
56558-18-0	PCB-121	U	21	21	pg/L	21.0
76842-07-4	PCB-122		78.7	77.3	pg/L	21.0
65510-44-3	PCB-123	U	105	105	pg/L	105
57465-28-8	PCB-126		65.4	64	pg/L	21.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

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SDG Number: 11-3607
 Lab Sample ID: 2783001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10659
 Batch ID: 19628
 Run Date: 10/02/2011 19:53
 Data File: c01oct11a_3-9
 Prep Batch: 19612
 Prep Date: 20-SEP-11

Client: LANL001
 Date Collected: 09/04/2011 12:00
 Date Received: 09/16/2011 09:35
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 951.8 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
39635-33-1	PCB-127	U	21	21	pg/L	21.0
38380-07-3	PCB-128/166	C	1670	1670	pg/L	42.0
55215-18-4	PCB-138/163/129	C	10800	10800	pg/L	63.0
52663-66-8	PCB-130		675	672	pg/L	21.0
61798-70-7	PCB-131		145	143	pg/L	21.0
38380-05-1	PCB-132		3460	3460	pg/L	21.0
35694-04-3	PCB-133		119	117	pg/L	21.0
52704-70-8	PCB-134		580	577	pg/L	105
52744-13-5	PCB-151/135	C	2750	2750	pg/L	42.0
38411-22-2	PCB-136		1020	1020	pg/L	21.0
35694-06-5	PCB-137		526	523	pg/L	21.0
56030-56-9	PCB-139/140	C	188	186	pg/L	42.0
52712-04-6	PCB-141		2010	2010	pg/L	21.0
41411-61-4	PCB-142	U	21	21	pg/L	21.0
68194-15-0	PCB-143		31.4	29.1	pg/L	21.0
68194-14-9	PCB-144		412	410	pg/L	21.0
74472-40-5	PCB-145	U	21	21	pg/L	21.0
51908-16-8	PCB-146		1420	1410	pg/L	21.0
68194-13-8	PCB-147/149	C	7280	7280	pg/L	42.0
74472-41-6	PCB-148	U	21	21	pg/L	21.0
68194-08-1	PCB-150	U	21	21	pg/L	21.0
68194-09-2	PCB-152	U	21	21	pg/L	21.0
35065-27-1	PCB-153/168	C	6850	6850	pg/L	42.0
60145-22-4	PCB-154		87.1	85.7	pg/L	21.0
33979-03-2	PCB-155	U	21	21	pg/L	21.0
38380-08-4	PCB-156/157	C	1260	1260	pg/L	42.0
74472-42-7	PCB-158		1220	1220	pg/L	21.0
39635-35-3	PCB-159	U	21	21	pg/L	21.0
41411-62-5	PCB-160	U	21	21	pg/L	21.0
74472-43-8	PCB-161	U	21	21	pg/L	21.0
39635-34-2	PCB-162		29.6	28.5	pg/L	21.0
74472-45-0	PCB-164		833	831	pg/L	21.0

Comments:

- C** Congener has coeluters. When Cxxx, refer to congener number xxx for data
U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3607
 Lab Sample ID: 2783001
 Client Sample: 1668A Water
 Client ID: WT_IPSAN-11-10659
 Batch ID: 19628
 Run Date: 10/02/2011 19:53
 Data File: c01oct11a_3-9
 Prep Batch: 19612
 Prep Date: 20-SEP-11

Client: LANL001
 Date Collected: 09/04/2011 12:00
 Date Received: 09/16/2011 09:35
 Method: EPA Method 1668A
 Analyst: MJC
 Prep Method: SW846 3520C
 Aliquot: 951.8 mL

Project: LANL00109
 Matrix: WATER
 Prep Basis: As Received
 Instrument: HRP791
 Dilution: 1
 Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-46-1	PCB-165	U	21	21	pg/L	21.0
52663-72-6	PCB-167		457	456	pg/L	21.0
32774-16-6	PCB-169	U	21	21	pg/L	21.0
35065-30-6	PCB-170		1640	1640	pg/L	21.0
52663-71-5	PCB-173/171	C	543	542	pg/L	42.0
52663-74-8	PCB-172		292	290	pg/L	21.0
38411-25-5	PCB-174		1850	1850	pg/L	21.0
40186-70-7	PCB-175		69.8	68.4	pg/L	21.0
52663-65-7	PCB-176		203	202	pg/L	21.0
52663-70-4	PCB-177		906	905	pg/L	21.0
52663-67-9	PCB-178		331	330	pg/L	21.0
52663-64-6	PCB-179		676	675	pg/L	21.0
35065-29-3	PCB-193/180	CU	42	42	pg/L	42.0
74472-47-2	PCB-181	U	21	21	pg/L	21.0
60145-23-5	PCB-182	U	21	21	pg/L	21.0
52663-69-1	PCB-183/185	C	966	965	pg/L	42.0
74472-48-3	PCB-184	U	21	21	pg/L	21.0
74472-49-4	PCB-186	U	21	21	pg/L	21.0
52663-68-0	PCB-187		1790	1790	pg/L	21.0
74487-85-7	PCB-188	U	21	21	pg/L	21.0
39635-31-9	PCB-189		78.7	77.6	pg/L	21.0
41411-64-7	PCB-190		316	315	pg/L	21.0
74472-50-7	PCB-191		62.1	61	pg/L	21.0
74472-51-8	PCB-192	U	21	21	pg/L	21.0
35694-08-7	PCB-194		586	585	pg/L	21.0
52663-78-2	PCB-195		264	263	pg/L	21.0
42740-50-1	PCB-196		307	306	pg/L	21.0
33091-17-7	PCB-197/200	CU	42	42	pg/L	42.0
68194-17-2	PCB-198/199	C	679	678	pg/L	42.0
40186-71-8	PCB-201		77.0	76	pg/L	21.0
2136-99-4	PCB-202		118	117	pg/L	21.0
52663-76-0	PCB-203		380	379	pg/L	21.0

Comments:

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U Analyte was analyzed for, but not detected above the specified detection limit.

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3607
Lab Sample ID: 2783001
Client Sample: 1668A Water
Client ID: WT_IPSAN-11-10659
Batch ID: 19628
Run Date: 10/02/2011 19:53
Data File: c01oct11a_3-9
Prep Batch: 19612
Prep Date: 20-SEP-11

Client: LANL001
Date Collected: 09/04/2011 12:00
Date Received: 09/16/2011 09:35

Method: EPA Method 1668A
Analyst: MJC

Prep Method: SW846 3520C
Aliquot: 951.8 mL

Project: LANL00109
Matrix: WATER

Prep Basis: As Received

Instrument: HRP791
Dilution: 1
Prep SOP Ref: CF-OA-E-001

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
74472-52-9	PCB-204	U	21	21	pg/L	21.0
74472-53-0	PCB-205		32.7	31.9	pg/L	21.0
40186-72-9	PCB-206		165	164	pg/L	21.0
52663-79-3	PCB-207	U	21	21	pg/L	21.0
52663-77-1	PCB-208		35.9	34.9	pg/L	21.0
2051-24-3	PCB-209	U	21	21	pg/L	21.0
27323-18-8	Total Mono PCBs	U	0	0	pg/L	
25512-42-9	Total Di PCBs		24.0	21.7	pg/L	
25323-68-6	Total Tri PCBs		592	587	pg/L	
26914-33-0	Total Tetra PCBs		7470	7440	pg/L	
25429-29-2	Total Penta PCBs		34500	34500	pg/L	
26601-64-9	Total Hexa PCBs		43900	43800	pg/L	
28655-71-2	Total Hepta PCBs		9720	9700	pg/L	
55722-26-4	Total Octa PCBs		2440	2440	pg/L	
53742-07-7	Total Nona PCBs		201	199	pg/L	
2051-24-3	Total Deca PCB	U	0	0	pg/L	
	Total PCB Congeners		98800	98700	pg/L	

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1-MoCB		921	2100	pg/L	43.8	(15%-150%)
13C-3-MoCB		1080	2100	pg/L	51.4	(15%-150%)
13C-4-DiCB		1050	2100	pg/L	49.8	(25%-150%)
13C-15-DiCB		1700	2100	pg/L	81.0	(25%-150%)
13C-19-TrCB		1440	2100	pg/L	68.3	(25%-150%)
13C-37-TrCB		1850	2100	pg/L	87.8	(25%-150%)
13C-54-TeCB		1320	2100	pg/L	62.9	(25%-150%)
13C-77-TeCB		1870	2100	pg/L	88.8	(25%-150%)
13C-81-TeCB		1850	2100	pg/L	88.0	(25%-150%)
13C-104-PeCB		1390	2100	pg/L	66.1	(25%-150%)
13C-105-PeCB		1640	2100	pg/L	78.2	(25%-150%)
13C-114-PeCB		1570	2100	pg/L	74.6	(25%-150%)
13C-118-PeCB		1570	2100	pg/L	74.9	(25%-150%)
13C-123-PeCB		1660	2100	pg/L	79.0	(25%-150%)
13C-126-PeCB		1650	2100	pg/L	78.3	(25%-150%)
13C-155-HxCB		1620	2100	pg/L	77.3	(25%-150%)
13C-156-HxCB	C	3070	4200	pg/L	73.1	(25%-150%)
13C-157-HxCB	C156L					
13C-167-HxCB		1460	2100	pg/L	69.4	(25%-150%)
13C-169-HxCB		1820	2100	pg/L	86.8	(25%-150%)
13C-188-HpCB		1220	2100	pg/L	58.2	(25%-150%)
13C-189-HpCB		1210	2100	pg/L	57.5	(25%-150%)
13C-202-OcCB		1280	2100	pg/L	60.8	(25%-150%)

**PCB Congeners
Certificate of Analysis
Sample Summary**

SDG Number: 11-3607	Client: LANL001	Project: LANL00109
Lab Sample ID: 2783001	Date Collected: 09/04/2011 12:00	Matrix: WATER
Client Sample: 1668A Water	Date Received: 09/16/2011 09:35	
Client ID: WT_IPSAN-11-10659		Prep Basis: As Received
Batch ID: 19628	Method: EPA Method 1668A	
Run Date: 10/02/2011 19:53	Analyst: MJC	Instrument: HRP791
Data File: c01oct11a_3-9		Dilution: 1
Prep Batch: 19612	Prep Method: SW846 3520C	Prep SOP Ref: CF-OA-E-001
Prep Date: 20-SEP-11	Aliquot: 951.8 mL	

CAS No.	Parmname	Qual	Result	MBCR	Units	PQL
Surrogate/Tracer recovery						
		Qual	Result	Nominal	Units	Recovery% Acceptable Limits
13C-205-OcCB			1720	2100	pg/L	81.7 (25%-150%)
13C-206-NoCB			1870	2100	pg/L	88.8 (25%-150%)
13C-208-NoCB			1460	2100	pg/L	69.2 (25%-150%)
13C-209-DeCB			1620	2100	pg/L	77.3 (25%-150%)
13C-28-TrCB			1360	2100	pg/L	64.7 (30%-135%)
13C-111-PeCB			1680	2100	pg/L	80.1 (30%-135%)
13C-178-HpCB			1780	2100	pg/L	84.9 (30%-135%)

Comments:

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- U** Analyte was analyzed for , but not detected above the specified detection limit.