Pacific Gas and Electric Company

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July 24, 2015

Ms. Lisa Dernbach
Senior Engineering Geologist (Specialist)
Lahontan Regional Water Quality Control Board
2501 Lake Tahoe Boulevard
South Lake Tahoe, California 96150-7704

Re: Hinkley School Supplemental Environmental Project Final Report and Satisfaction of Order Request

Dear Ms. Dernbach:

Pacific Gas and Electric (PG&E) submits the following Hinkley School Supplemental Environmental Project (SEP) Final Report in compliance with Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order No. R6V-2012-0013 (the "Order"), issued March 14, 2012.

Actions Taken Since First Quarter 2015

On February 9, 2015, PG&E submitted its final Progress Report highlighting actions taken through First Quarter 2015 (January 1, 2015 through March 30, 2015). Since April 1, 2015, PG&E has permitted and commissioned the new water supply to the Hinkley School water system. PG&E also coordinated with the Barstow Unified School District (BUSD) to review the draft Hinkley School Water System Permit Technical Report (PTR). PG&E incorporated the BUSD comments and submitted the PTR to the County of San Bernardino Department of Public Health, Division of Environmental Health Services (EHS). County EHS subsequently issued a revised water system permit to the BUSD on May 26, 2015. Following receipt of the permit, PG&E completed the valve connection between the new conveyance infrastructure and the Hinkley School water system to enable the flow of water from the new potable well supply. PG&E met with BUSD personnel to discuss the operational process on June 18, 2015. On June 19, 2015, PG&E sent a letter notifying the BUSD that construction of the SEP water supply infrastructure was complete and that the system was fully operational.

Hinkley School SEP Final Report

With the conclusion of SEP activities, PG&E has prepared the Final Report for submittal to the Lahontan Regional Water Quality Control Board (Water Board) to document and certify work completed, compliance with applicable environmental laws, and SEP expenditures, as described in the Order. The Hinkley School SEP Final Report is included as Exhibit 1. The report includes the School's amended water system permit, the PTR submitted to County EHS,

applicable communications with the BUSD and regulatory agencies, photos to document work completed as part of the project, and documentation of compliance with applicable environmental laws. The report also contains a summary of project expenses exceeding $1.8 million allocated to the Hinkley School SEP based on invoices PG&E paid to its third party contractors.

Request for Satisfaction of Order

The Final Report serves as documentation that PG&E has satisfied its obligations under the Settlement Agreement and Stipulation. PG&E requests that the Water Board review the Final Report and supporting documentation and issue a Satisfaction of Order.

I hereby certify that I have examined this report, and based on my examination and my inquiries of those individuals who assisted in the preparation of the report, I believe the report to be true, complete, and accurate.

Please do not hesitate to contact me if you have any questions regarding this report or if you need additional information.

Sincerely,

Danielle N. Starring, P.E.
Project Manager

Attachments:
Exhibit 1 Hinkley School SEP Final Report

cc: Lauri Kemper, RWQCB Lahontan Region, South Lake Tahoe Office
Wael Elatar, Chief Business Official, Barstow Unified School District
Jeff Malan, Superintendent, Barstow Unified School District

Pacific Gas & Electric Company

Supplemental Environmental Project Final Report

Hinkley School

July 2015

Brent Alspach, PE, BCEE
Principal Environmental Engineer
ARCADIS U.S., Inc.

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Supplemental Environmental Project Final Report

Hinkley School

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Date:
July 2015

Table of Contents

1. Introduction and Project Overview **1**

2. Certification of Performance of Work **2**

2.1 Coordinating Agencies 2

2.2 Major Milestones and Timeline 2

2.3 Documentation of Work Completed 4

3. Certification of Environmental and Regulatory Compliance **6**

3.1 Water System Permitting 6

3.2 Mojave Water Agency 6

3.3 California Environmental Quality Act 7

4. Certification of Expenditures **8**

Tables

Table 1: Hinkley School SEP Major Milestone Timeline 3

Table 2: SEP Major Expenditure Summary (through May 2015) 8

Appendices

A Hinkley School SEP Schematic

B Hinkley Elementary School Permit Amendment Technical Report

C Hinkley Elementary School Domestic Water Supply Permit

D BUSD Hinkley School SEP Completion Letter and Response

E Project Photos

F Hinkley School SEP Cost Expenditures and Certification By Corporate Officials

1. Introduction and Project Overview

Pacific Gas and Electric (PG&E) Company implemented a Supplemental Environmental Project (SEP) titled the Hinkley Community Benefit Project in accordance with California Regional Water Quality Control Board, Lahontan Region ("Water Board") Order No. R6V-2012-0013 (the Order) to provide a new water supply to the Hinkley Elementary/Middle School (School), located in Hinkley, California. In addition to serving educational needs, the School has functioned as a central gathering point for the community.

Prior to the SEP, four potable water supply wells on the School grounds were used to meet the School's irrigation and domestic water supply needs. The purpose of the SEP is to decrease water supply pumping in the immediate vicinity of the School and the surrounding community, which will reduce the demand on the limited aquifer in the area. Consequently, a new School water supply that does not rely on proximal pumping was designed and constructed, simultaneously improving both water reliability and water quality.

The new School water supply was provided by extending PG&E's existing freshwater conveyance system to the School, developing two new potable quality wells, and creating an interconnection with the PG&E Pipeline Operation water system (referred to as the Hinkley Compressor Station (Station) water system). The new wells and associated infrastructure and controls were constructed north of the Mojave River, and the expanded system incorporated two existing freshwater wells that were re-permitted as potable wells. PG&E amended the School's water system permit through the San Bernardino County Department of Environmental Health Services (County) to reflect the incorporation of the new water supply.

This report documents the work performed by PG&E in fulfillment of the SEP, environmental and regulatory compliance, and associated project expenditures.

2. Certification of Performance of Work

PG&E hereby certifies that the SEP has been completed in accordance with the terms of the Order.

2.1 Coordinating Agencies

The School's water system is owned by the Barstow Unified School District (BUSD) and is classified as a non-transient, non-community water system permitted by the County. The County has been delegated primacy for regulatory oversight of small water systems within its geographic jurisdiction.

Potable supply wells providing water to the School are located in the Mojave Basin Area, which was adjudicated in January 1996. The Mojave Water Agency is responsible for managing the region's water resources, as described below in Section 3.2.

In addition to the County and Mojave Water Agency, PG&E coordinated with the BUSD School representatives, Hinkley Community Advisory Committee (CAC), Station water system personnel, the Water Board, and the Hinkley community in the implementation of the SEP. Meetings with these parties are documented in the quarterly Hinkley School SEP Progress Reports submitted to the Water Board.

2.2 Major Milestones and Timeline

A summary of the major milestones associated with SEP implementation is provided in Table 1.

Table 1: Hinkley School SEP Major Milestone Timeline

Description	2012				2013				2014				2015			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Order Issued (March 14, 2012)	■															
BUSD/County Coordination	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
SEP Completion (June 19, 2015)														■		
Final SEP Report													■	■	■	
School Water System Permitting																
10% Design Report		■	■	■												
Permit Technical Report				■	■	■	■	■	■	■	■	■	■	■		
System Permitting												■	■	■		
System Handover														■		
Wells FW-01 and FW-02																
Sampling/Analysis		■	■													
Retrofits								■								
Re-Permitting for Potable Use								■	■	■						
Wells FW-03 and FW-04																
Siting/Sampling/Analysis						■	■									
Design						■	■	■	■							
Construction								■	■	■	■					
Permitting										■	■	■				
School Pipeline Connection																
Design					■	■										
Construction							■	■						■		
Start-Up/Testing												■	■	■		
New Water Supply Connection																
Design								■	■							
Construction									■	■	■	■				
Start-Up/Testing												■	■			

2.3 Documentation of Work Completed

PG&E retained ARCADIS, CH2M (formerly CH2M Hill), and Pivox to design and construct the new water supply. The water supply is provided to the School via an interconnection with the Station water system. The schematic in Appendix A illustrates the work completed as part of the School SEP.

The School's new water supply originates from four drinking water supply wells owned and operated by PG&E. Wells FW-01 and FW-02 were modified for potable use and re-permitted by the County on December 15, 2014. PGE-14, one of the wells originally listed as a potential new water source for the School, was removed from service due to elevated levels of arsenic. Two new higher capacity potable water wells, FW-03 and FW-04, were constructed to improve both water quality and reliability. Permits for FW-03 and FW-04 were issued by the County on October 1, 2014; the Hinkley Elementary School Permit Amendment Technical Report (Appendix B) and the Hinkley Elementary School Domestic Water Supply Permit (Appendix C) document that all four wells meet applicable drinking water standards and are approved for potable use.

A new pipeline was constructed to connect the Station water system to the School water system. New valving and controls were installed at the School to control flow into the School's tanks. A reduced pressure principle backflow prevention device and flow meter were also installed at the School in accordance with State and County requirements. All infrastructure downstream of the flow meter is associated with the School water system, and thus is owned, maintained, and operated by the BUSD.

Following completion of the new supply and associated infrastructure, the School water system permit was updated to reflect the new source of supply. Documentation of the work performed as part of the School SEP is included as appendices, as summarized below:

- **Appendix A – Hinkley School SEP Schematic:** General layout of the School water system in relation to the Station water system

- **Appendix B – Hinkley Elementary School Permit Amendment Technical Report:** Report submitted to the County documenting modifications to the School's existing water system, including the ability of the new water source to meet applicable regulatory requirements for quantity and quality

- **Appendix C – Hinkley Elementary School Domestic Water Supply Permit:** Amended permit issued to the BUSD by the County approving the new water supply wells for use at the School water system

- **Appendix D – BUSD Hinkley School SEP Completion Letter and Response:** Letter from PG&E notifying the BUSD that the School SEP is complete, along with the corresponding BUSD response

- **Appendix E – Project Photos:** Photos documenting the work completed as part of the School SEP

In addition, PG&E previously submitted other applicable SEP documentation to the Water Board , as follows:

- **Hinkley School SEP Project Site Condition and 10% Design Report** – Presents preliminary 10 percent level design information in accordance with the SEP Settlement Agreement (submitted to the Water Board on October 31, 2012)

- **Well Installation Report: Potable Supply for the Supplemental Environmental Program and Groundwater Remediation** – Provides details of the installation of the new freshwater wells (submitted to the Water Board on December 5, 2014)

- **Significant Milestone Notification for Supplemental Environmental Project** – Notified the Water Board that all field activities associated with construction of the Hinkley School SEP had been completed (submitted to the Water Board on December 19, 2014)

- **Hinkley School SEP Progress Reports** – Summarizes School SEP actions taken and actions planned (submitted quarterly to the Water Board from May 10, 2012 to May 8, 2015)

3. Certification of Environmental and Regulatory Compliance

Work completed as part of the School SEP was performed in accordance with applicable federal, state, and local regulatory requirements, as described below.

3.1 Water System Permitting

Primacy has been delegated to the County for regulatory oversight of small water systems. The County requires that modifications to permitted water systems are performed in accordance with federal, state, and local regulations. This includes water system design, construction, permitting, water quality sampling, and operation. Under authority of the County, and on behalf of the BUSD, PG&E applied for an amendment to the School's water system permit to incorporate the new water supply. As part of the application process, PG&E demonstrated to the County's satisfaction that the modifications were performed in compliance with applicable requirements of the Clean Water Act, the California Safe Drinking Water Act, California Health and Safety Code and associated regulations and standards. As documented in Appendix C, the County approved the modification to the School's permitted water system based on PG&E's construction of the SEP-related infrastructure, and the BUSD is permitted to operate the School's water system in accordance with the requirements set forth in the amended permit.

3.2 Mojave Water Agency

Wells FW-01, FW-02, FW-03, and FW-04 supplying the School are owned and operated by PG&E. As such, water supplied by these wells will be allocated under PG&E's water rights. School water supply is not expected to result in PG&E exceeding its free production allowance (FPA) under the Mojave Basin water adjudication. PG&E FPA is reported to the Water Board in the Annual MMRP Compliance Report for Agricultural Treatment Units[1].

[1] Annual MMRP Compliance Report for Agricultural Treatment Unit, Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California. ARCADIS US, Inc., February 19, 2015

3.3 California Environmental Quality Act

The County was the California Environmental Quality Act (CEQA) lead agency for the Hinkley SEP. On July 12, 2012, PG&E met with the County to discuss the proposed Hinkley SEP, CEQA requirements, and documentation and/or support the County may need to facilitate its CEQA review. As the lead agency, the County determined that the Hinkley School SEP project was exempt from CEQA reporting and evaluation requirements. The County's August 9, 2012 exemption is included in the Hinkley Elementary School Permit Amendment Technical Report in Appendix B. (See Append D of the PTR.)

4. Certification of Expenditures

As documented in Appendix F, PG&E hereby certifies that expenditures of more than $1,800,000 were made by PG&E in fulfillment of the requirements of the Order.

Under the Order, PG&E will receive a credit of up to $1,800,000 toward administrative civil liability for expenditures on the completion of the Hinkley School SEP through December 31, 2017. As of May 31, 2015, $2,320,463 has been spent on the SEP. A summary of the major expenses is provided in Table 2; additional project cost details and certification by a responsible PG&E corporate official are included as Appendix F.

Table 2: SEP Major Expenditure Summary (through May 2015)

Description	Cost
Engineering, Reporting, Community Relations, Management	$418,126
School Water System Design and Construction	$804,540
Water Supply and Well Design and Construction	$1,034,767
School System Startup and Operational Support	$40,400
Water System Startup and Operational Support	$22,630
TOTAL	**$2,320,463**

SEP expenditure items in Table 2 include permitting, reporting, stakeholder engagement, engineering design, installation of the School pipeline connection, retrofit of wells FW-01 and FW-02, and installation of new supply wells FW-03 and FW-04. New wells FW-03 and FW-04 and associated water conveyance infrastructure were sized to accommodate supply of both the School and Station.

Expenditures for items applicable to the supply of water to both the SEP and other uses (i.e., freshwater injection system, Desert View Dairy, construction water connected, and the Station) were allocated proportionally. For example, for construction of infrastructure that would serve multiple uses, and which was sized to accommodate the total combined flow (e.g., water pipelines), costs were apportioned based on the relative percentage of new water supply production required for each use. Thus, because the 28 gpm flow required for the School represents 6.4 percent of the 435 gpm total production (as indicated in Table 3 of the Permit Amendment

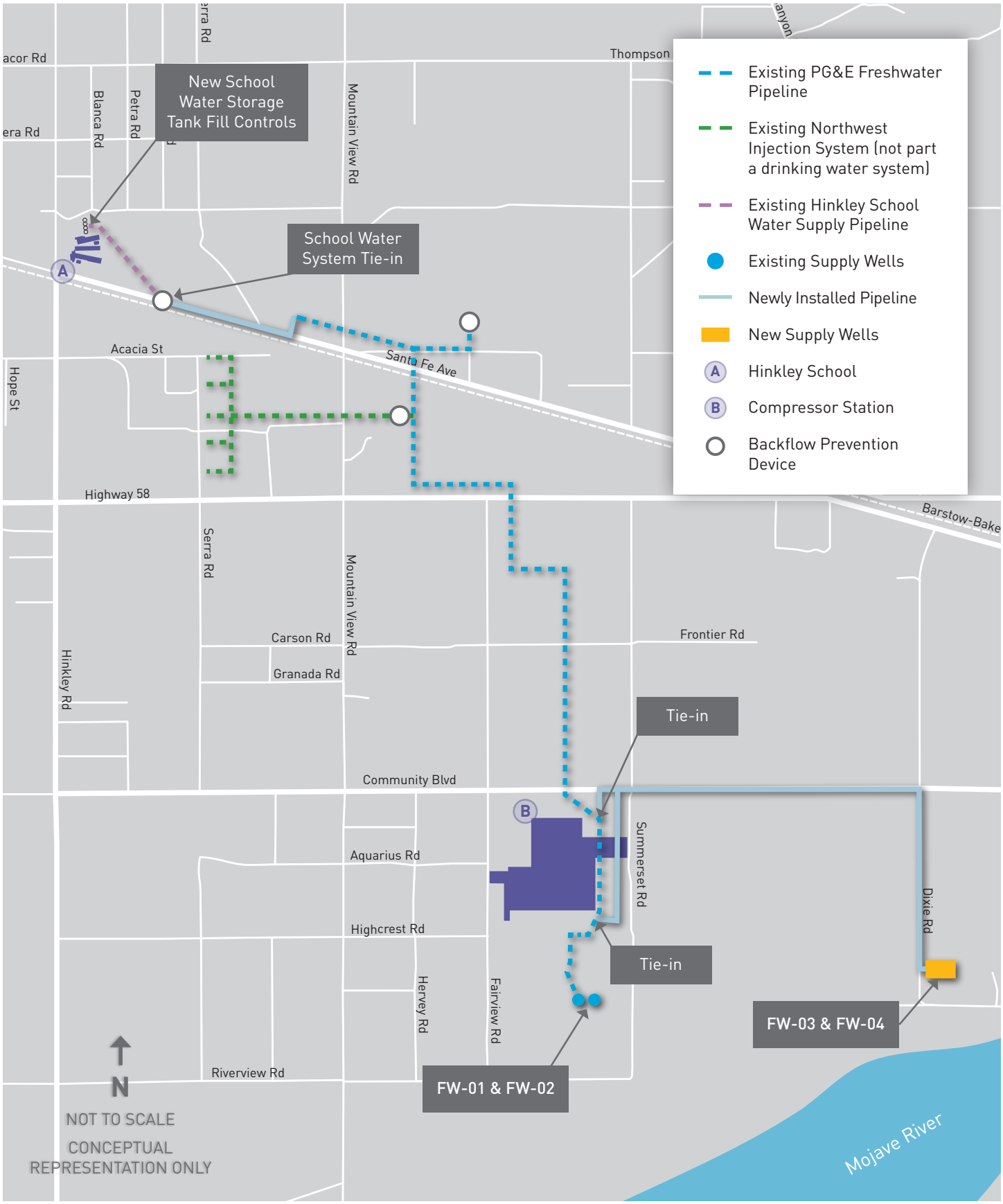
Technical Report, included as Appendix B), 6.4 percent of the expenditures for shared cost components were assigned to the SEP (as shown in the table in Appendix F). Fixed costs that are independent of flow or other proportional sizing criteria (e.g., electrical power connections, sampling, system disinfection, etc.) were divided evenly between the Station water supply upgrade project and the SEP.

Appendix A

Hinkley School SEP Schematic

Appendix A

Hinkley Groundwater Remediation Program Supplemental Environmental Project



Appendix B

Hinkley Elementary School
Permit Amendment Technical
Report

Pacific Gas & Electric Company

Permit Technical Report

Hinkley Elementary School Water System
Amendment

May 2015 (Revised)

Permit Technical Report

Hinkley Elementary School Water System Amendment

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May 2015 (Revised)

Table of Contents

1. Introduction **1**

2. Existing System **2**

2.1 Water Supply Permit 2

2.2 Infrastructure 2

2.2.1 Wells 2

2.2.2 Storage and Conveyance 3

2.2.3 Treatment and Disinfection 4

2.3 Water Quality 4

2.4 Water Demand 4

2.5 System Deficiencies 4

2.5.1 Water Quantity 4

2.5.2 Water Quality 4

3. Proposed System Design **6**

3.1 General Water System Information 6

3.2 Water Supply 8

3.2.1 Water Rights 8

3.2.2 Water Quantity 8

3.2.3 Water Quality 9

3.2.4 Vulnerability to Contamination 9

3.2.5 Well Modification and Construction 9

3.3 Treatment and Disinfection 10

3.3.1 Wellhead Treatment 10

3.3.2 Chlorine Disinfection 10

3.4 Well Transmission Mains and Distribution System 10

3.4.1 Well Transmission Mains 11

3.4.2 Transmission Pumping and Pressure 11

3.4.3 School Pumping and Storage 12

3.4.4 Backflow Prevention 12

3.4.5 Initial System Disinfection 13

4. System Operations 14

4.1 Water Quality Monitoring 14

4.2 Water System Operation and Maintenance 16

4.3 Emergency Response 16

5. Environmental Documentation 17

6. References 18

Tables

Table 1: Existing Water Supply Wells 3

Table 2: Historical School Water Use (2004 - 2012) 5

Table 3: Anticipated Well Commitments 7

Table 4: Proposed Water Supply Wells 8

Table 5: Water Quality Monitoring Requirements 14

Appendices

A Hinkley School Water Supply Schematics

B FW-01, FW-02, FW-03, and FW-04 Water Quality Data

C 2011 County NCNTWS Sanitary Survey Report

D County Notification Regarding Non-Applicability of CEQA

1. Introduction

Pacific Gas and Electric (PG&E) is implementing a Supplemental Environmental Project (SEP) in accordance with California Regional Water Quality Control Board, Lahontan Region ("Water Board") Board Order No. R6V-2012-0013. The SEP consists of design and installation of a new water supply for the Hinkley Elementary School (School), located in Hinkley, California.

In order to provide a new water source to the School, PG&E will extend its existing water supply system to the School, creating an interconnection with the PG&E Pipeline Operation water system (#3600192), referred to in this document as the Hinkley Compressor Station (Station) water system. Accordingly, an amendment to the School's existing water system permit will be required under authority of the San Bernardino County Department of Environmental Health Services (County).

On behalf of the School, PG&E is seeking an amendment to the School's water system permit to reflect the incorporation of the additional water supply.

2. Existing System

2.1 Water Supply Permit

The School's water system is owned by the Barstow Unified School District (BUSD) and is classified as a non-transient, non-community water system (System #3600125), permitted by the County. Historically, the water system has one service connection, the Hinkley Elementary School, serving approximately 300 students and 40 staff members when the school is in session. BUSD contracts with the Arrowhead Group for the services of a D1 operator (County 2011). PG&E voluntarily supplied the School with bottled water from 2010 until the School ceased operations in 2013.

2.2 Infrastructure

The existing water system consists of four wells located on the southeast portion of the School property. These wells convey water to four above ground storage tanks, from which water is pumped by a 7.5 horsepower (hp) booster pump to a pressure tank, supplying both the School's irrigation and domestic water pipelines in parallel. The system pressure is maintained between 40 and 60 pounds per square inch (psi).

The water system was originally constructed when the School was built in the 1950s. The system has been upgraded periodically since original installation. The layout of the existing School infrastructure is included among the expansion conceptual design in Appendix A.

2.2.1 Wells

Four vertical, potable water supply wells are used to meet the School's water supply needs. Presently, the water is utilized for both irrigation and domestic purposes. Table 1 summarizes the School's existing water supply well system based on a 2011 sanitary survey performed by the County (County 2011). The BUSD indicates that all four wells have experienced declining production and currently yield about 2-5 gallons per minute (gpm) according to the County sanitary survey.

Table 1: Existing Water Supply Wells

County Permit Number	PG&E / School Designation	Status	Current Yield	Comments and Descriptions
02278001	27-38 / Well #1	Active	2-5 gpm	Surface features appear in good condition.
UNKNOWN	27-39 / Well #2	Active	2-5 gpm	Surface features appear in good condition.
09089403	27-40 / Well #3	Active	2-5 gpm	Surface features appear in good condition.
10039450V	27-08 / Well #4	Active	2-5 gpm	Surface features appear in good condition.

Source: County of San Bernardino Non-Community Water System Sanitary Survey Report (2011)

2.2.2 Storage and Conveyance

A buried 2-inch polyvinyl chloride (PVC) pipeline conveys water from the supply wells to four 5,000-gallon polyethylene storage tanks. The tanks are located at the northern edge of the School property and are piped in parallel so that all four tanks fill and drain simultaneously, creating approximately 20,000 gallons of effective storage. One of the four tanks is equipped with a level switch that governs the operation of the wells.

The four storage tanks feed a 1,000-gallon pneumatic pressure tank via a 7.5 hp booster pump. The pressure tank is filled by the booster pump, which is regulated by a pressure switch. There is a low-low level switch in one of the storage tanks which prevents the booster pump from running when the tanks are empty.

The pressure tank provides a minimum 40 psi service pressure to the School buildings and irrigation system. From the pressure tank, water distribution piping splits into a 4-inch line that supplies water for irrigation and a 2-inch line that supplies water to the School buildings, including drinking water taps. The two lines include isolation valves at the outlet of the pneumatic tank, allowing water to be directed to either or both purposes, as needed.

2.2.3 Treatment and Disinfection

The School wells do not require treatment. According to BUSD personnel, occasional calcium hypochlorite dosing for as-needed disinfection is the only treatment applied in the current system.

2.3 Water Quality

According to its 2010 Consumer Confidence Report, the School water system is in compliance with Federal and State drinking water standards.

2.4 Water Demand

Table 2 summarizes the School's water use over the past 13 years as obtained from water meter logs. There were not sufficient data to gage water use in the year 2003. Available data indicates annual water use over this period averaged 5.9 gpm (approximately 8,500 gpd). BUSD personnel estimate that an average of 1.9 gpm (2,700 gpd) is needed for the School's domestic needs.

2.5 System Deficiencies

The system deficiencies described below are based on comments provided by BUSD personnel.

2.5.1 Water Quantity

The BUSD reports that the production rates in the existing supply wells have decreased over the past 10 years. If needed, School personnel can interrupt irrigation to maintain adequate water supply to the School buildings. Because of the steadily decreasing well production, the existing supply is not sufficient to meet the School's full irrigation and domestic demand at all times.

2.5.2 Water Quality

Although the existing supply wells meet Federal and State drinking water standards, the BUSD reports that hardness and manganese are elevated in the current supply and present aesthetic issues in the form of stained plumbing. BUSD also noted upward trending in arsenic levels, albeit at concentrations below the 10 microgram per liter (µg/L) maximum contaminant level (MCL).

Table 2: Historical School Water Use (2004 - 2012)

Year	Average Daily Water Use (gpm)	Maximum Daily Water Use in Peak Month (gpm)	Month of Maximum Water Use
2000	6.7	10.1	June
2001	5.1	8.5	June
2002	5.8	10.7	June
2003	-	-	-
2004	4.6	8.0	September
2005	4.7	10.5	August
2006	7.3	18.4	August
2007	10.3	14.9	June
2008	5.8	9.4	October
2009	3.6	5.8	August
2010	5.2	11.6	September
2011	7.8	11.2	June
2012	4.1	6.8	May
Average	**5.9**	**10.5**	**-**
Maximum	**10.3**	**18.4**	**-**

Source: January 2000 - October 2012 School meter read data.

3. Proposed System Design

A new water supply will be provided to the School via an interconnection with the Station water system, which will also serve a series of injection wells, PG&E's water filling station, and agricultural tanks at the Desert View Dairy (DVD) via the existing freshwater pipeline system. The freshwater pipeline system will be modified in order to meet requirements for a potable water system, thus enabling drinking water supplies to be conveyed from the Station's wells to the School. These modifications are described below.

3.1 General Water System Information

The School water system will remain a non-transient, non-community water system. Four new drinking water wells will be added to the Station water system, as indicated in the Station's Permit Technical Report: FW-01, FW-02, FW-03, and FW-04. The School water system will be connected to the Station water system on School property. The connection will be made with a metered pipeline connection to a pipeline lateral to the Station's system. A reduced pressure principle backflow prevention device is installed at the point of connection. This device will serve as the end point of the Station's water system, with all downstream infrastructure a part of the School water system. New valving and controls will be installed in the School water system to control flow from the PG&E connection into the School's tanks. There are no proposed changes to any School water system equipment at or downstream of the School's tanks.

Once the new supply and associated infrastructure are fully established and in use, the existing School wells will be shut down. The current water system permit held by the School is being updated accordingly to reflect the interconnection with the Station water system.

Following methodologies described in Title 22, §64554, School meter data was used to estimate the School's demand. Because a complete monthly data set was not available, maximum day demand was calculated two ways. First, based on the average daily demand of the month with the highest recorded water use over the past 10 years (18.4 gpm recorded for August 2006; see Table 2), the maximum day demand was calculated to be 27.6 gpm (18.4 gpm multiplied by a 1.5 maximum-day-to-maximum-month-peaking factor). Using the second method, based on the maximum annual water use between the years 2000 and 2011, maximum day demand was calculated to be 23.2 gpm (10.3 gpm daily average over 2007 (i.e., the maximum

daily average use figure over the years 2003-2012) multiplied by a 2.25 maximum-day-to-average-day peaking factor). For the purposes of design, average and maximum day demands were assumed to be 11 gpm (rounded up from 10.3 gpm) and 28 gpm (rounded up from 27.6 gpm), respectively. This is a conservative assumption given recent water use over the past five years.

Table 3 provides a summary of the anticipated average day and maximum day commitments for the drinking water supply wells. In addition to the School demand, PG&E is required to inject up to 80 gpm of freshwater into the aquifer under an Order from the Water Board; a daily average of 60 gpm was injected in 2012. Moreover, PG&E estimates that up to 90 gpm of water may be provided to the DVD on an as-needed basis; based on 2013 data, the DVD consumed an average of 20 gpm. (Note that although dairy operations have ceased, a demand from the dairy was assumed in order to generate a conservative estimate of demand.) Average and maximum day Station demands are 99 gpm and 223 gpm, respectively, and include both industrial and domestic water needs. PG&E also anticipates using up to 20,000 gallons per day, or a maximum day average of 14 gpm for construction water.

Table 3: Anticipated Well Commitments

Demand	Average Daily Demand (gpm)	Maximum Daily Demand (gpm)
Hinkley Elementary School[1]	11	28
Freshwater Injection[2]	60	80
Desert View Dairy	20	90[3]
Hinkley Compressor Station[4]	99	223
Construction Water Connection	7	14
Total	**197**	**435**

(1) 2004 - 2012 School meter data and Title 22, Section 64554 for maximum day calculation
(2) 2012 freshwater injection data and Water Board mandate
(3) 2013 DVD data and PG&E/DVD water supply agreement; dairy operations have since ceased
(4) Hinkley Compressor Station 2015 Permit Technical Report

3.2 Water Supply

Prior to connecting to the School, the Station water system was modified to include two existing supply wells (wells FW-01 and FW-02) and two new supply wells (FW-03 and FW-04), along with the required conveyance pipelines and appurtenances. The Station water system permit will be amended to reflect the modifications to the Station system before introducing the new water supply to the School system.

3.2.1 Water Rights

Wells supplying the School will be located in the Mojave Basin Area, which was adjudicated in January 1996, and water supplied by these wells will be allocated under PG&E's water rights. Because the wells will pump in excess of 10 acre-feet annually, they are subject to replenishment by the Mojave Water Agency if withdrawals are in excess of PG&E's free production allowance. Based on PG&E's current free production allowance, replenishment is not expected (Mojave Basin Area Watermaster 2014).

3.2.2 Water Quantity

School officials do not expect the water demand to increase over the next ten years. Similarly, the freshwater injection and DVD demands are limited by agreements and are likewise not expected to change in the next ten years. Because the BUSD has indicated that no School modifications are planned, fire flow requirements will not be adjusted. Table 4 summarizes the available water supplies. With the largest well out of service (i.e., FW-03 or FW-04), the system's anticipated firm capacity is 490 gpm, which is more than the 435 gpm maximum day demand needed.

Table 4: Proposed Water Supply Wells

PG&E Well ID	County Permit No.	Status	Year Constructed	Capacity (gpm)
FW-01	2011030103	Active	2011	40
FW-02	2011090615	Active	2011	50
FW-03	2013100720	Active	2014	400
FW-04	2013100719	Active	2014	400
			Total Firm Capacity[1]	**490**

(1) With the highest capacity well (i.e., either FW-03 or FW-04) out of service

3.2.3 Water Quality

A well permit amendment request for FW-01 and FW-02 was submitted to the County on January 23, 2013, including documentation showing that water produced by both wells meet applicable drinking water standards. FW-01 and FW-02 were approved for potable use by the County on December 15, 2014. Well permit requests for FW-03 and FW-04 were submitted to the County on June 30, 2014, including documentation showing that water produced by both wells meet applicable drinking water standards. County well permits for FW-03 and FW-04 were received on October 1, 2014. Water quality for the four wells is included in Appendix B.

3.2.4 Vulnerability to Contamination

According to permits for FW-01, FW-02, FW-03, and FW-04, there are no known potential contaminating activities (i.e., other wells, sewage disposal systems, lakes or ponds, watercourses, or animals or fowl kept) within a 500 foot radius of any of the four wells.

3.2.5 Well Modification and Construction

FW-01 and FW-02

Wells FW-01 and FW-02 were originally constructed and permitted as agricultural supply wells but have since been reclassified by the County as potable water wells. The County performed a site inspection of the two wells on February 12, 2013, after which the County provided direction on minor well head piping improvements that would be required to reissue the well permits. These improvements have been completed and approved by the County. The wells were disinfected in November 2014 in accordance with County Code §33.0369. Disinfection and verification procedures were performed as specified in American Water Works Association (AWWA) Standard C654-13, including documentation of the wells producing microbiologically safe water after disinfection activities were completed.

FW-03 and FW-04

Wells FW-03 and FW-04 were constructed and permitted by the County as potable water wells in 2014. Final inspection was performed on October 1, 2014. The wells were disinfected in November 2014 in accordance with County Code §33.0369. Disinfection and verification procedures were performed as specified in American

Water Works Association (AWWA) Standard C654-13, including documentation of the wells producing microbiologically safe water after disinfection activities were completed.

Due to the large production capacity of wells FW-03 and FW-04, the Station system will operate with one of these wells in service at any one time, with the other maintained in standby. The standby well will operate if the primary well cannot maintain the minimum pipeline pressure during operation or if the primary well experiences an operational failure. Primary and standby operation between FW-03 and FW-04 will be rotated on a periodic basis to ensure that both wells remain in working condition. The frequency of well operational rotation has yet to be determined, but will likely be approximately monthly to bimonthly.

3.3 Treatment and Disinfection

3.3.1 Wellhead Treatment

Wells FW-01, FW-02, FW-03, and FW-04 do not require treatment to meet drinking water standards.

3.3.2 Chlorine Disinfection

BUSD personnel will continue the current practice of occasional calcium hypochlorite dosing for as-needed disinfection. A reserve chlorination dosing system may be considered as a secondary measure at BUSD discretion.

3.4 Well Transmission Mains and Distribution System

Water will be supplied to the School via an interconnection with the Station water system. Appendix A provides the general location, arrangement, and layout of the existing and proposed system infrastructure described in more detail below. For the purposes of this report, the term “well transmission mains” refers to infrastructure prior to the Hinkley School connection, the Station storage tanks, DVD tanks, construction water fill point, and freshwater injection system backflow preventers. The term “distribution system” refers to infrastructure located downstream of the backflow preventer at the Hinkley School connection.

3.4.1 Well Transmission Mains

The transmission system consists of 4-inch, 6-inch, and 8-inch high density polyethylene (HDPE) pipe. The pipe conforms to AWWA material standard C906-07. There are no known instances where the transmission mains cross a sewer line or leach field.

The connection to the School from the Station was made via an extension of PG&E's existing well transmission main, as shown in Appendix A. The school connection transmission pipeline extension consists of a 4-inch HDPE pipeline that terminates at the southeast corner of the School property, where it connects to the existing 2-inch School distribution system pipeline. The 4-inch pipe has a maximum capacity of more than 100 gpm (based on maximum recommended pipeline water velocity); consequently, the conveyance pipe size will not limit future School water supply capacity. A backflow prevention device and flow meter are installed where the PG&E transmission main connects to the School distribution system.

During construction of the 4-inch main, contractors assessed the condition of the 2-inch PVC school distribution pipeline. Based on the field assessment and discussion with BUSD water system personnel, it was determined that the school distribution pipeline between the Station system termination point and the School storage tanks does not require replacement.

3.4.2 Transmission Pumping and Pressure

The transmission system will convey water from the potable supply wells (i.e., FW-01, FW-02, FW-03, and FW-04) to holding tanks at the Hinkley School site. The transmission system pressure is maintained by variable frequency drive (VFD) pumps in wells FW-01 (10 hp), FW-02 (15 hp), FW-03 (25 hp), and FW-04 (25 hp). The VFDs will be set to maintain a minimum pressure of 40 psi and a maximum pressure of 80 psi throughout the transmission system to the School holding tanks. The well transmission main that supplies the School is equipped with pressure sensing and communications instrumentation that transmits data to Station system operators. Pressure sensing and communications instrumentation is also installed at the FW-03 and FW-04 well head plumbing. The Station system is designed with a low pressure alarm that notifies operators if well transmission main operating pressure drops below 25 psi, while also signaling the well in standby (i.e., either FW-03 or FW-04) to start operation to restore system pressure. Wells FW-01 and FW-02 are also signaled to start operation if needed to boost pressure, as well.

3.4.3 School Pumping and Storage

The existing 20,000 gallons of available storage at the School will be used to meet peak hour demands. A new motor-actuated valve was installed in the School distribution piping upstream of the School storage tanks. Operation of the valve is controlled by the water level in the School storage tanks; when the water level in the School tanks reaches a low level setpoint, the valve opens to allow water to flow into the tanks. When the water level in the School tanks reaches a high level setpoint, the valve closes. The valve can also be manually operated by School personnel.

Water will continue to be pumped from the School's storage tanks using the existing 7.5 hp pump and 1,000-gallon pressure tank. A review of the School's as-built drawings indicates that the pipes were installed in accordance with Article 4 of Title 22 (Materials and Installation of Water Mains and Appurtenances). Existing storage and pumping infrastructure were inspected during construction. Based on the inspection and discussion with BUSD water system personnel, it was determined that the School tanks and pumping equipment do not require replacement.

3.4.4 Backflow Prevention

To protect the water system from possible contamination, backflow prevention devices will be installed in accordance with State and County requirements. The functional locations of backflow prevention devices are also included in Appendix A. Based on the California Code of Regulations (CCR), Title 17 §7604, reduced pressure principle backflow prevention devices were recommended at the freshwater injection system, construction water fill station, and DVD. Although a double check valve assembly was deemed sufficient at the School, a reduced pressure principle backflow prevention device was installed where the School system connects to the Station system. Reduced pressure principle backflow prevention devices were also installed at the other external connections to the Station system, including the injection system connection, DVD, and construction water fill station. The backflow preventers will be maintained and inspected by individuals with a valid Certificate of Competence obtained from the County.

With regards to a possible cross-connection within the School where irrigation and potable water pipelines exist, there is a backflow prevention device installed in the irrigation piping immediately downstream of the location at which the potable and irrigation pipelines split. PG&E will inspect the existing backflow prevention device, and if this device is not in operation or inoperable, PG&E will install a replacement.

This backflow prevention device would be in addition to the device already installed at the water supply pipeline connection point as described above.

3.4.5 Initial System Disinfection

Upon the completion of construction, the Station system well transmission main pipeline, backflow prevention device, and connection to the School distribution pipeline were disinfected in accordance with AWWA Standard C651-05. Disinfection work included documentation confirming that the disinfected system produced microbiologically-safe water. The new valve assembly at the School tanks was disinfected by swabbing assembly components with a chlorine solution prior to installation, in accordance with AWWA C651-05.

4. System Operations

4.1 Water Quality Monitoring

As a registered water system in the State of California, the School water system must meet applicable drinking water standards established under the California Safe Drinking Water Act (SDWA). Water quality monitoring and reporting is required to ensure the supply continues to meet drinking water standards. Monitoring requirements for the current School water system are indicated in the 2011 County NCNTWS Sanitary Survey Report (Appendix C). Introduction of an additional water supply will result in modifications to the current monitoring requirements, as shown in Table 5. It is anticipated that wellhead monitoring of FW-01, FW-02, FW-03, and FW-04 will be performed in accordance with the amended Station water system permit. Water quality data collected as part of the Station water system permit will be provided to the School for the purposes of compliance and reporting.

Table 5: Water Quality Monitoring Requirements

Water Quality Parameter	Current Sampling Frequency[1]	Required Practice		Title 22 CCR Reference
		Sampling Frequency	Sampling Location	
Bacteria	Quarterly	Monthly[2]	Representative site[3]	§64423 and §64422
Secondary Standards (General Mineral and Physical Constituents)	Once	At least once	Each wellhead and distribution system entry points	§64449 (g)
Inorganic Chemicals	Once every 3 years	Once during designated year[10]	Each wellhead or distribution system entry points after treatment	§64432
Volatile Organic Chemicals	Once every 3 years, 6 years with approved waiver	Quarterly during designated year, once every 6 years with approved waiver[4]	Each wellhead prior to treatment	§64445

Water Quality Parameter	Current Sampling Frequency[1]	Required Practice		Title 22 CCR Reference
		Sampling Frequency	Sampling Location	
Synthetic Organic Chemicals	Once every 3 years, 6 years with approved waiver	Quarterly during designated year, no monitoring with approved waiver[4]	Each wellhead prior to treatment	§64446
Nitrate	Monthly	Annually	Each wellhead or distribution system entry points after treatment	§64432.1
Nitrite	Once every 3 years	Annually	Each wellhead or distribution system entry points after treatment	§64432.1
Lead and Copper	Once every 3 years during summer months	Once every 3 years during summer months[8]	Sites with lead/copper piping[9]	Article 3: §64575, §64675.5, §64576 (d) and §64577
Radioactivity - Gross Alpha, Radium 226, Radium 228, and Uranium[5]	Once every 3 years	Initial Monitoring: four consecutive quarters for each new source. The Department may waive the last two quarters of sampling.	Each wellhead or distribution system entry points after treatment	§64442 (3)
Perchlorate	Twice, 5-7 months apart, After initial analysis once every 3 years	Twice, 5-7 months apart, After initial analysis once per year during the summer months[6]	At each source	§64432.3
Arsenic	Monthly	Annually (Quarterly[10])	Each wellhead or distribution system entry points after treatment	§64432

Notes:

[1] The operator may obtain samples from the distribution system for all required analyses and/or from each water supply well.

[2] Reduced frequency of once per quarter can be requested for systems with non-violations in past twelve months.

[3] The sample sites chosen shall be representative of water throughout the distribution system including all pressure zones and areas supplied by each water source and distribution reservoir.

[4] The State Department of Public Health will designate the year based on historical monitoring frequency and laboratory capacity.

[5] Waiver applicable for the water systems that have completed the initial four quarters of monitoring or three consecutive years of monitoring with no VOCs or SOCs detected. The term of a VOC or SOC waiver shall not exceed three years.

[6] Sampling Frequency depends on initial monitoring results. Requirement provided in the table for results above 1/2 MCL but less than MCL. The results for the total radium analyses shall be averaged for this system.

[7] At least one of the samples shall be collected during the period from May 1 through September 30.

[8] Reduced monitoring for systems that demonstrate for two consecutive periods that the difference between the 90th percentile tap sampling lead level and the highest source water monitoring result for each period is less than the reporting level for purposes of reporting (DLR), pursuant to subsections 64678(a), (b), and (c) or that the source water lead levels are below the method detection level of 0.001 mg/L and the 90th percentile lead level is equal to or less than the DLR for each period,

[9] Pool of "tier 1" sites shall need to be identified per §64576 (d). Site selection depends on locations that contain lead pipes or copper pipes with lead solder installed after 1982.

[10] Quarterly samples shall be required if analyses indicate a continuous or persistent trend toward higher levels based on an evaluation of previous data.

4.2 Water System Operation and Maintenance

Operator certification requirements are regulated under Title 22 CCR §63770. The amended water system will continue to require a distribution operator with D1 certification to operate the system. The certified distribution operator will be required to address operational activities related to water main installations and repair, water well installation and testing, and stand-by emergency / after-hours procedures. Either a certified distribution (D1) or treatment system (T1) operator may be used to address operational issues related to pump/system flow and pressure control, determine chemical dosage rates, and investigate water quality problems.

4.3 Emergency Response

The School's Emergency Response Plan will be amended to include the additional water supply and associated infrastructure and controls under their direct control. This document will be prepared and submitted to the County for separate approval.

5. Environmental Documentation

The San Bernardino County Department of Environmental Health Services is the California Environmental Quality Act (CEQA) lead agency for this project. County staff notified PG&E on August 9, 2012 that the SEP does not trigger CEQA reporting or evaluation requirements unless the project installs a storage tank(s) with a volume greater than 100,000 gallons. The August 9 notification is included as Appendix D.

6. References

American Water Works Association, 2013. Standard C654-13, Disinfection of Water Wells.

American Water Works Association, 2007. Standard C906-07, Polyethylene (PE) Pressure Pipe and Fittings, 4 In. (100 mm) Through 63 In. (1,575 mm), for Water Distribution and Transmission.

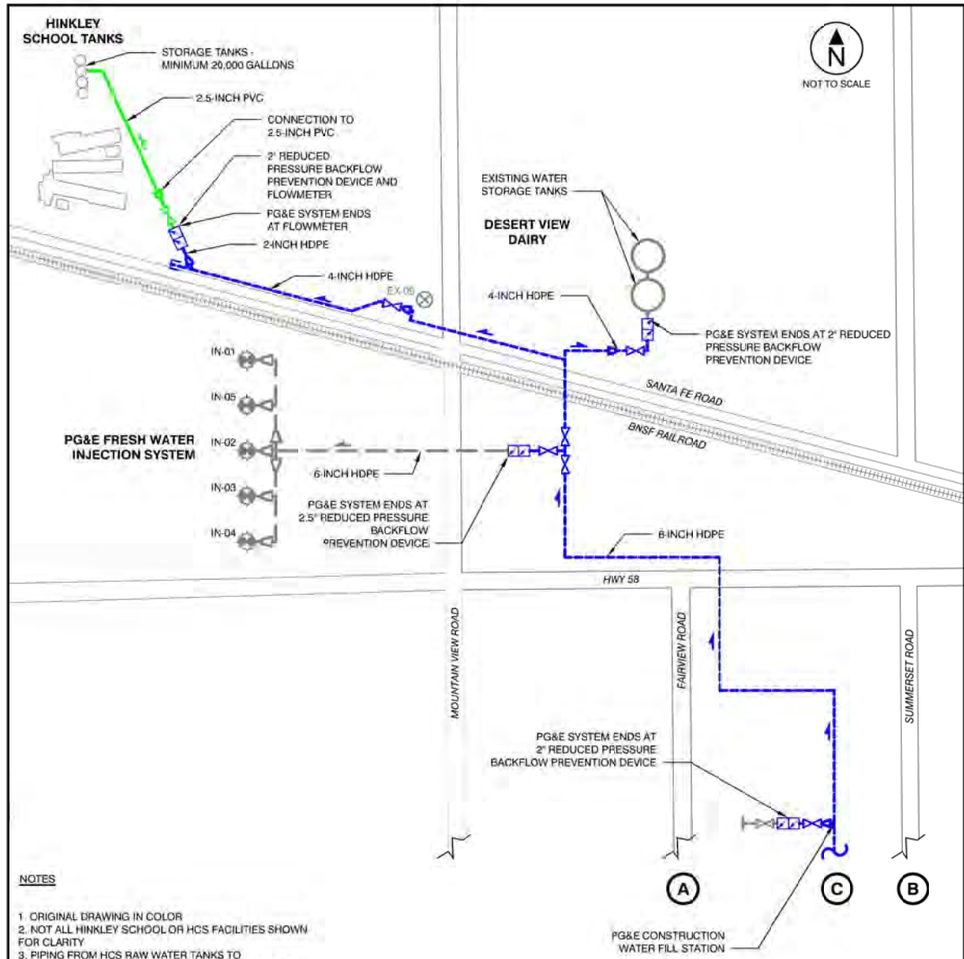
American Water Works Association, 2005. Standard C651-05, Disinfection of Water Mains.

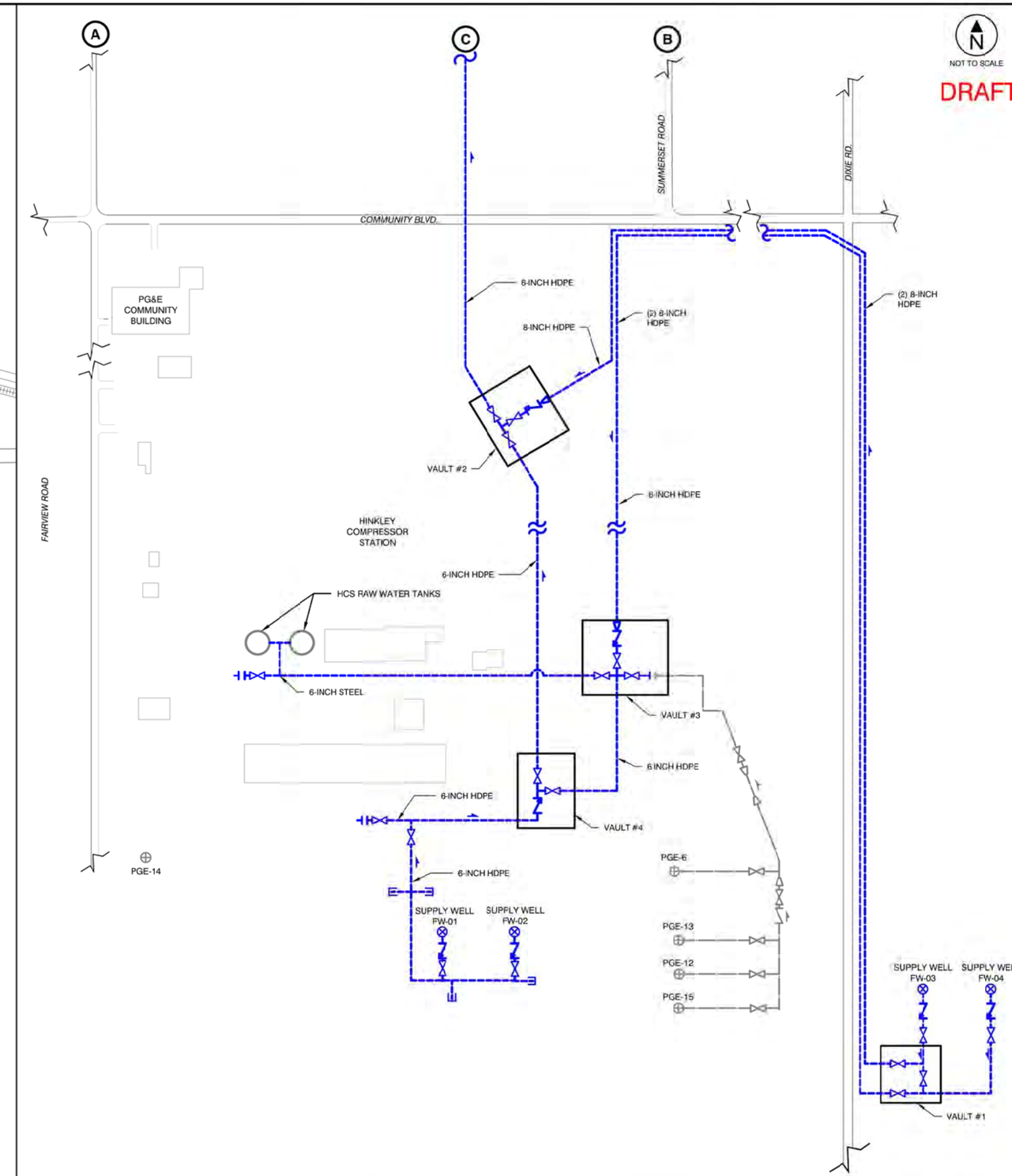
Mojave Basin Area Watermaster, 2014. "Quarterly Water Production Report, 4th Quarter, Water Year 2013-14."

San Bernardino County Environmental Health Services, 2011. "Non-Community Water System Sanitary Survey Report: Hinkley Elementary School."

Appendix A

Hinkley School Water Supply Schematics





NOTES

1. ORIGINAL DRAWING IN COLOR
2. NOT ALL HINKLEY SCHOOL OR HCS FACILITIES SHOWN FOR CLARITY
3. PIPING FROM HCS RAW WATER TANKS TO COMPRESSOR STATION DISTRIBUTION NOT SHOWN FOR CLARITY. THERE ARE NO PROPOSED MODIFICATIONS TO THE HCS WATER SYSTEM AT OR DOWNSTREAM OF THE RAW WATER TANKS.
4. PIPING FROM HINKLEY SCHOOL STORAGE TANKS TO SCHOOL DISTRIBUTION NOT SHOWN FOR CLARITY. THERE ARE NO PROPOSED MODIFICATIONS TO THE SCHOOL WATER SYSTEM AT OR DOWNSTREAM OF THE HINKLEY SCHOOL STORAGE TANKS.

LEGEND

- PGE HCS WATER SYSTEM
- HINKLEY SCHOOL WATER SYSTEM
- PGE NON-POTABLE EXTERNAL CONNECTIONS
- FORMER PG&E HCS SUPPLY PIPELINE, FOR EMERGENCY USE ONLY
- ISOLATION VALVE
- CHECK VALVE
- AIR GAP WITH BLIND FLANGES
- BACKFLOW PREVENTION DEVICE
- STUB CAP
- REDUCER
- DISCONNECTED PG&E SUPPLY WELL
- EXTRACTION WELL
- INJECTION WELL
- WATER FLOW DIRECTION
- (A) SCHEMATIC MATCH POINT

AVOX Corporation
595 MARKET STEET
SUITE 630
SAN FRANCISCO, CALIFORNIA 94105

PG&E HINKLEY COMPRESSOR STATION
PERMIT TECHNICAL REPORT

PACIFIC GAS & ELECTRIC COMPANY
HINKLEY, CALIFORNIA

HINKLEY COMPRESSOR STATION
WATER SYSTEM AND HINKLEY
SCHOOL CONNECTION

Appendix B

FW-01, FW-02, FW-03, and FW-04 Water Quality Data

Groundwater Quality Analytical Results
Drinking Water Supply Wells FW-01 and FW-02

Constituents	Units	California Title 22 Standard	FW-01	FW-02
Aluminum	mg/L	1	ND	ND
Antimony	mg/L	0.006	ND	ND
Arsenic	mg/L	0.01	0.0023	0.0014
Asbestos	mg/L	7 MFL[a]	ND	ND
Barium	mg/L	1	0.046	0.0547
Beryllium	mg/L	0.004	ND	ND
Cadmium	mg/L	0.005	ND	ND
Chromium, Total	mg/L	0.05	0.001	ND
Chromium, Hexavalent	mg/L	0.01	0.00085	0.00097
Copper	mg/L	1.3[b]	ND	ND
Cyanide	mg/L	0.15	ND	ND
Fluoride	mg/L	2	0.639	0.624
Lead	mg/L	0.05[c] 0.015[b]	ND	ND
Mercury	mg/L	0.002	ND	ND
Nickel	mg/L	0.1	ND	ND
Nitrite as Nitrogen	mg/L	1	ND	ND
Nitrate (as Nitrogen)	mg/L	10	1.01	1.10
Perchlorate	µg/L	6	ND	ND
Selenium	mg/L	0.05	ND	ND
Thallium	mg/L	0.002	ND	ND
Uranium, Total	pCi/L	20	2.14	3.08
Combined Radium – 226 + 228	pCi/L	5	<2	<2
Gross Alpha	pCi/L	15	ND	3.92
Gross Beta	millirem/yr	4[h]	ND	ND
Strontium-90	pCi/L	8	ND	ND
Tritium	pCi/L	20,000	ND	ND
Benzene	µg/L	1	ND	ND
Carbon Tetrachloride	µg/L	0.5	ND	ND
1,2-Dichlorobenzene	µg/L	600	ND	ND
1,4-Dichlorobenzene	µg/L	5	ND	ND
1,1-Dichloroethane	µg/L	5	ND	ND
1,2-Dichloroethane	µg/L	0.5	ND	ND
1,1-Dichloroethylene	µg/L	6	ND	ND
Dichloromethane	µg/L	5	ND	ND
1,3-Dichloropropene	µg/L	0.5	ND	ND
1,2-Dichloropropane	µg/L	5	ND	ND
1,3-Dichloropropane	µg/L	NA	ND	ND
Ethylbenzene	µg/L	300	ND	ND

Groundwater Quality Analytical Results
Drinking Water Supply Wells FW-01 and FW-02

Constituents	Units	California Title 22 Standard	FW-01	FW-02
Methyl-tert-butyl ether (MTBE)	µg/L	13	ND	ND
Monochlorobenzene	µg/L	70	ND	ND
Styrene	µg/L	100	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	1	ND	ND
Tetrachloroethylene	µg/L	5	ND	ND
Toluene	µg/L	150	ND	ND
1,2,4-Trichlorobenzene	µg/L	5	ND	ND
1,1,1-Trichloroethane	µg/L	200	ND	ND
1,1,2-Trichloroethane	µg/L	NA	ND	ND
Trichloroethylene	µg/L	5	ND	ND
Trichlorofluoromethane	µg/L	150	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/L	1,200	ND	ND
Vinyl chloride	µg/L	0.5	ND	ND
Xylenes	µg/L	1,750	ND	ND
Alachlor	µg/L	2	ND	ND
Atrazine	µg/L	1	ND	ND
Bentazon	µg/L	18	ND	ND
Benzo(a) Anthracene	µg/L	10	ND	ND
Benzo(a)pyrene	µg/L	NA	ND	ND
Carbofuran	µg/L	18	ND	ND
Chlordane	µg/L	0.1	ND	ND
Dalapon	µg/L	200	ND	ND
Dibromochloropropane	µg/L	0.2	ND	ND
Di(2-ethylhexyl)adipate	µg/L	400	ND	ND
Di(2-ethylhexyl)phthalate	µg/L	4	ND	ND
Dinoseb	µg/L	7	ND	ND
Diquat	µg/L	20	ND	ND
Endothall	µg/L	100	ND	ND
Endrin	µg/L	2	ND	ND
Ethylene Dibromide	µg/L	0.05	ND	ND
Glyphosate	µg/L	700	ND	ND
Heptachlor	µg/L	0.01	ND	ND
Heptachlor Epoxide	µg/L	0.01	ND	ND
Hexachlorobenzene	µg/L	1	ND	ND
Hexachlorocyclopentadiene	µg/L	50	ND	ND
Lindane	µg/L	0.2	ND	ND
Methoxychlor	µg/L	30	ND	ND
Molinate	µg/L	2	ND	ND

Groundwater Quality Analytical Results
Drinking Water Supply Wells FW-01 and FW-02

Constituents	Units	California Title 22 Standard	FW-01	FW-02
Oxamyl	µg/L	50	ND	ND
Pentachlorophenol	µg/L	1	ND	ND
Picloram	µg/L	500	ND	ND
Polychlorinated Biphenyls	µg/L	0.5	ND	ND
Simazine	µg/L	4	ND	ND
Thiobencarb	µg/L	70	ND	ND
Toxaphene	µg/L	3	ND	ND
2,3,7,8-TCDD (Dioxin)	pg/L	30	ND	ND
2,4,5-TP (Silvex)	µg/L	50	ND	ND
Total Trihalomethanes	µg/L	80	ND	ND
Haloacetic Acids (Five)	µg/L	60	-	-
Bromate	µg/L	10	-	-
Chlorite	mg/L	1	-	-
Acrylamide	mg/L	TT[d]	-	-
Epichlorohydrin	mg/L	TT[d]	-	-
Chloramine (as Cl_2)	mg/L	4	-	-
Chlorine (as Cl_2)	mg/L	4	-	-
Chlorine Dioxide (as ClO_2)	mg/L	0.8	-	-
Coliform, Total	---	5%[e]	ND	ND
E. coli MPN	Presence/ absence	MCL[f]	ND	ND
Cryptosporidium	---	TT	ND	ND
Giardia	---	TT	ND	ND
Aluminum	mg/L	0.2	ND	ND
Chloride	mg/L	250 / 500 / 600[g]	29.4	30.1
Color	Color units	15	ND	ND
Copper	mg/L	1	ND	ND
Foaming Agents (MBAS)	mg/L	0.5	ND	ND
Iron	mg/L	0.3	ND	ND
Manganese	mg/L	0.05	0.002	ND
Methyl-*tert*-butyl ether (MTBE)	mg/L	0.005	ND	ND
Odor—Threshold	TON	3	1J	1J
pH	SBU	6.5 - 8.5	7.52	7.51J
Silver	mg/L	0.1	ND	ND
Sulfate	mg/L	250 / 500 / 600[g]	42.3	42
Specific Conductance	µS/cm	900 / 1,600 / 2,200[g]	416	431
Thiobencarb	mg/L	0.001	ND	ND

Groundwater Quality Analytical Results
Drinking Water Supply Wells FW-01 and FW-02

Constituents	Units	California Title 22 Standard	FW-01	FW-02
Total Dissolved Solids	mgL	500 / 1,000 / 1,500[g]	252	278
Turbidity	NTU	5	0.113	ND
Zinc	mg/L	5	ND	0.0142
Boron	mg/L	1	ND	ND
n-Butylbenzene	mg/L	0.26	ND	ND
Sec-Butylbenzene	mg/L	0.26	ND	ND
Tert-Butylbenzene	mg/L	0.26	ND	ND
Carbon Disulfide	mg/L	0.16	ND	ND
Chlorate	mg/L	0.8	ND	ND
2-Chlorotoluene	mg/L	0.14	ND	ND
4-Chlorotoluene	mg/L	0.14	ND	ND
Diazinon	mg/L	0.0012	ND	ND
Dichlorodifluoromethane (Freon 12)	mg/L	1	ND	ND
1,4-Dioxane	mg/L	0.001	ND	ND
Ethylene Glycol	mg/L	14	ND	ND
Formaldehyde	mg/L	0.1	ND	ND
HMX	mg/L	0.35	ND	ND
Isopropylbenzene	mg/L	0.77	ND	ND
Methyl Isobutyl Ketone (MIBK)	mg/L	0.12	ND	ND
Napthalene	mg/L	0.017	ND	ND
n-Nitrosodiethylamine (NDEA)	mg/L	0.00001	ND	ND
n- Nitrosodimethylamine (NDMA)	mg/L	0.00001	ND	ND
n-Nitrosodi-n-propylamine (NDPA)	mg/L	0.00001	ND	ND
Propachlor	mg/L	0.09	ND	ND
n-Propylbenzene	mg/L	0.26	ND	ND
RDX	mg/L	0.0003	ND	ND
Tertiary Butyl Alcohol (tBA)	mg/L	0.012	ND	ND
1,2,3-Trichloropropane (1,2,3-TCP)	mg/L	0.000005	ND	ND
1,2,4-Trimethylbenzene	mg/L	0.33	ND	ND
1,3,5-Trimethylbenzene	mg/L	0.33	ND	ND
2,4,6-Trinitrotoluene (TNT)	mg/L	0.001	ND	ND
Vanadium	mg/L	0.05	0.0075	0.0054

Notes:

a. MFL = million fibers per liter, with fiber length > 10 microns

b. Regulatory Action Level; if system exceeds, it must take certain actions such as additional monitoring, corrosion control studies, and treatment, and for lead, a public education program; replaces the maximum contaminant level (MCL).

c. The MCL for lead was rescinded with the adoption of the regulatory action level described in footnote b.

d. TT = treatment technique, because an MCL is not feasible

e. No more than 5.0 percent samples total coliform-positive in a month

f. A routine sample that is E.coli positive triggers repeat sample. If any repeat sample is total coliform, fecal coliform, or E.coli-positive the system has an acute MCL violation.

g. Recommended / Upper / Short Term

h. The gross beta particle activity MCL is 4 millirem/year annual dose equivalent to the total body or any internal organ. The screening level is 50 pCi/L. The California Division of Drinking Water (DDW) Detection Limit for Reporting (DLR) is 4 pCi/L.

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June 12, 2012

CH2M HILL

Ms. Jennifer Low
155 Grand Ave., Suite 800
Oakland, California 94612

Dear Ms. Low:

SUBJECT: REVISED CASE NARRATIVE PG&E HINKLEY PROJECT, 2012-GMP-025-M05B;

TLI NO.: 801603

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Hinkley 2012-GMP-025-M05B Project. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, wet chemistry raw data, quality control data and chain of custody forms are included in Sections 3 and 4. Established Retention Time Window and analytical raw data are included under Section 5.

The samples were received and delivered with the chain of custody on May 15, 2012, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter they will either be disposed or kept in warm storage for an additional 2 months.

The recovery for the Mid-range Calibration Check Standard in batch 051812B for Total Aluminum by EPA 200.7 exceeded the acceptance limits of 95% - 105%. Because the sample results were below the reporting limit and all other QA/QC were within acceptable limits, the data was accepted.

The recovery for the Mid-range Calibration Check Standard in batch 052312B for Total and Total Dissolved Silver by EPA 200.8 and SW 6020A exceeded the acceptance limits. Because the sample results were below the reporting limit and all other QA/QC were within acceptable limits, the data was accepted.

Total Uranium was requested by EPA 900.8 on the chain-of-custody. Per Mr. Duffy's request, the samples were analyzed by EPA 200.8.

E. coli was analyzed by SM 9223B.

On June 12, 2012, Mr. Doug Scott of CH2M Hill requested that Total Antimony by EPA 200.8 be reported to 5.0 ug/L rather than the contract required detection limit of 10.0 ug/L. The QA/QC supported the lower reporting limit and the report was revised as requested.

No other violations or nonconformance actions occurred for this data package. If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for - Mona Nassimi,
Manager Analytical Services

Michael Ngo
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING

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Client: CH2M HILL
155 Grand Ave. Suite 800
Oakland, CA 94612
Attention: Jennifer Low

Laboratory No.: **801603**
Date Received: **May 15, 2012**
Revision 1; June 12, 2012

Project Name: PG&E Hinkley Project
Project No.: 423405.GW.FW.SW
P.O. No.: 423405.GW.FW.SW

Analytical Results Summary

Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-001	PGE-14-EFF-025-M05b	E120.1	NONE	5/15/2012	13:17	EC	521	umhos/cm	2.00
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Aluminum	ND	ug/L	50.0
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	BORON	ND	ug/L	200
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Calcium	40.4	mg/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Iron	ND	ug/L	20.0
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Magnesium	8.52	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Nickel	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Potassium	2.15	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Sodium	51.4	mg/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.7	NONE	5/15/2012	13:17	Zinc	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Antimony	ND	ug/L	5.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Arsenic	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Barium	37.0	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Beryllium	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Cadmium	ND	ug/L	3.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Chromium	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Cobalt	ND	ug/L	5.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Copper	ND	ug/L	5.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Lead	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Manganese	ND	ug/L	0.50
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Mercury	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Molybdenum	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Selenium	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Silver	ND	ug/L	5.0

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Thallium	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Uranium, Total	ND	pCi/L	1.00
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Uranium, Total	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	E200.8	NONE	5/15/2012	13:17	Vanadium	ND	ug/L	5.0
801603-001	PGE-14-EFF-025-M05b	E218.6	FLDFLT	5/15/2012	13:17	Chromium, hexavalent	0.35	ug/L	0.20
801603-001	PGE-14-EFF-025-M05b	E300	NONE	5/15/2012	13:17	Bromide	ND	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	E300	NONE	5/15/2012	13:17	Chloride	45.4	mg/L	2.00
801603-001	PGE-14-EFF-025-M05b	E300	NONE	5/15/2012	13:17	Fluoride	0.755	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	E300	NONE	5/15/2012	13:17	Nitrate as N	ND	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	E300	NONE	5/15/2012	13:17	Sulfate	64.0	mg/L	5.00
801603-001	PGE-14-EFF-025-M05b	EPA 900.0	NONE	5/15/2012	13:17	Gross Alpha	ND	pCi/L	3.00
801603-001	PGE-14-EFF-025-M05b	EPA 900.0	NONE	5/15/2012	13:17	GROSS BETA	ND	pCi/L	4.00
801603-001	PGE-14-EFF-025-M05b	SM 9223B	NONE	5/15/2012	13:17	E. Coli	ND	MPN/100 mL	1
801603-001	PGE-14-EFF-025-M05b	SM2130B	NONE	5/15/2012	13:17	Turbidity	ND	NTU	0.100
801603-001	PGE-14-EFF-025-M05b	SM2320B	NONE	5/15/2012	13:17	Alkalinity	119	mg/L	5.00
801603-001	PGE-14-EFF-025-M05b	SM2320B	NONE	5/15/2012	13:17	Bicarbonate	119	mg/L	5.00
801603-001	PGE-14-EFF-025-M05b	SM2320B	NONE	5/15/2012	13:17	Carbonate	ND	mg/L	5.00
801603-001	PGE-14-EFF-025-M05b	SM2540C	NONE	5/15/2012	13:17	Total Dissolved Solids	339	mg/L	25.0
801603-001	PGE-14-EFF-025-M05b	SM2540D	NONE	5/15/2012	13:17	Total Suspended Solids	ND	mg/L	10.0
801603-001	PGE-14-EFF-025-M05b	SM4500CN	NONE	5/15/2012	13:17	Cyanide	ND	mg/L	0.0100
801603-001	PGE-14-EFF-025-M05b	SM4500HB	NONE	5/15/2012	13:17	PH	7.46	pH	4.00
801603-001	PGE-14-EFF-025-M05b	SM4500NH3D	NONE	5/15/2012	13:17	Ammonia-N	ND	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	SM4500NO2B	NONE	5/15/2012	13:17	Nitrite as N	ND	mg/L	0.0050
801603-001	PGE-14-EFF-025-M05b	SM4500-NOrgE	NONE	5/15/2012	13:17	Total Kjeldahl Nitrogen	1.40	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	SM4500-PB_E	NONE	5/15/2012	13:17	Total Phosphorous-P	ND	mg/L	0.0200
801603-001	PGE-14-EFF-025-M05b	SM4500-PE	FLDFLT	5/15/2012	13:17	Ortho Phosphate as P	ND	mg/L	0.0200
801603-001	PGE-14-EFF-025-M05b	SM4500-SD	NONE	5/15/2012	13:17	Total Sulfide	ND	mg/L	2.00
801603-001	PGE-14-EFF-025-M05b	SM4500SI	FLDFLT	5/15/2012	13:17	Soluble Silica	49.9	mg/L	1.00
801603-001	PGE-14-EFF-025-M05b	SM9221E	NONE	5/15/2012	13:17	Coliform, Fecal	ND	MPN/100 mL	2
801603-001	PGE-14-EFF-025-M05b	SM9221B	NONE	5/15/2012	13:17	Coliform, Total	ND	MPN/100 mL	2
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Aluminum	ND	ug/L	50.0
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	BORON	ND	ug/L	200
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Calcium	40.5	mg/L	10.0
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Iron	ND	ug/L	20.0
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Magnesium	8.94	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Nickel	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Potassium	2.28	mg/L	0.500
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Sodium	51.9	mg/L	10.0
801603-001	PGE-14-EFF-025-M05b	SW6010B	FLDFLT	5/15/2012	13:17	Zinc	ND	ug/L	10.0

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Arsenic	ND	ug/L	1.0
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Barium	35.5	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Chromium	ND	ug/L	1
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Manganese	ND	ug/L	0.50
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Molybdenum	ND	ug/L	10.0
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Silver	ND	ug/L	5.0
801603-001	PGE-14-EFF-025-M05b	SW6020	FLDFLT	5/15/2012	13:17	Vanadium	ND	ug/L	5.0

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-002	PGE-14-025-M05b	E120.1	NONE	5/15/2012	13:49	EC	521	umhos/cm	2.00
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Aluminum	ND	ug/L	50.0
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	BORON	ND	ug/L	200
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Calcium	39.9	mg/L	10.0
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Iron	57.9	ug/L	20.0
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Magnesium	8.49	mg/L	0.500
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Nickel	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Potassium	2.10	mg/L	0.500
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Sodium	50.7	mg/L	10.0
801603-002	PGE-14-025-M05b	E200.7	NONE	5/15/2012	13:49	Zinc	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Antimony	ND	ug/L	5.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Arsenic	14.9	ug/L	1.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Barium	122	ug/L	10.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Beryllium	ND	ug/L	1.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Cadmium	ND	ug/L	3.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Chromium	ND	ug/L	1.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Cobalt	ND	ug/L	5.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Copper	ND	ug/L	5.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Lead	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Manganese	74.8	ug/L	0.50
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Mercury	ND	ug/L	1.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Molybdenum	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Selenium	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Silver	ND	ug/L	5.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Thallium	ND	ug/L	1.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Uranium, Total	4.11	pCi/L	1.00
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Uranium, Total	6.1	ug/L	1.0
801603-002	PGE-14-025-M05b	E200.8	NONE	5/15/2012	13:49	Vanadium	6.5	ug/L	5.0
801603-002	PGE-14-025-M05b	E218.6	FLDFLT	5/15/2012	13:49	Chromium, hexavalent	0.38	ug/L	0.20
801603-002	PGE-14-025-M05b	E300	NONE	5/15/2012	13:49	Bromide	ND	mg/L	0.500
801603-002	PGE-14-025-M05b	E300	NONE	5/15/2012	13:49	Chloride	48.0	mg/L	2.00
801603-002	PGE-14-025-M05b	E300	NONE	5/15/2012	13:49	Fluoride	0.743	mg/L	0.500
801603-002	PGE-14-025-M05b	E300	NONE	5/15/2012	13:49	Nitrate as N	ND	mg/L	0.500
801603-002	PGE-14-025-M05b	E300	NONE	5/15/2012	13:49	Sulfate	67.7	mg/L	5.00
801603-002	PGE-14-025-M05b	EPA 900.0	NONE	5/15/2012	13:49	Gross Alpha	8.54	pCi/L	3.00
801603-002	PGE-14-025-M05b	EPA 900.0	NONE	5/15/2012	13:49	GROSS BETA	ND	pCi/L	4.00
801603-002	PGE-14-025-M05b	SM 9223B	NONE	5/15/2012	13:49	E. Coli	ND	MPN/100 mL	1
801603-002	PGE-14-025-M05b	SM2130B	NONE	5/15/2012	13:49	Turbidity	0.248	NTU	0.100

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801603-002	PGE-14-025-M05b	SM2320B	NONE	5/15/2012	13:49	Alkalinity	124	mg/L	5.00
801603-002	PGE-14-025-M05b	SM2320B	NONE	5/15/2012	13:49	Bicarbonate	124	mg/L	5.00
801603-002	PGE-14-025-M05b	SM2320B	NONE	5/15/2012	13:49	Carbonate	ND	mg/L	5.00
801603-002	PGE-14-025-M05b	SM2540C	NONE	5/15/2012	13:49	Total Dissolved Solids	340	mg/L	25.0
801603-002	PGE-14-025-M05b	SM2540D	NONE	5/15/2012	13:49	Total Suspended Solids	ND	mg/L	10.0
801603-002	PGE-14-025-M05b	SM4500CN	NONE	5/15/2012	13:49	Cyanide	ND	mg/L	0.0100
801603-002	PGE-14-025-M05b	SM4500HB	NONE	5/15/2012	13:49	PH	7.57	pH	4.00
801603-002	PGE-14-025-M05b	SM4500NH3D	NONE	5/15/2012	13:49	Ammonia-N	ND	mg/L	0.500
801603-002	PGE-14-025-M05b	SM4500NO2B	NONE	5/15/2012	13:49	Nitrite as N	ND	mg/L	0.0050
801603-002	PGE-14-025-M05b	SM4500-NOrgE	NONE	5/15/2012	13:49	Total Kjeldahl Nitrogen	0.560	mg/L	0.500
801603-002	PGE-14-025-M05b	SM4500-PB_E	NONE	5/15/2012	13:49	Total Phosphorous-P	ND	mg/L	0.0200
801603-002	PGE-14-025-M05b	SM4500-PE	FLDFLT	5/15/2012	13:49	Ortho Phosphate as P	ND	mg/L	0.0200
801603-002	PGE-14-025-M05b	SM4500-SD	NONE	5/15/2012	13:49	Total Sulfide	ND	mg/L	2.00
801603-002	PGE-14-025-M05b	SM4500SI	FLDFLT	5/15/2012	13:49	Soluble Silica	49.2	mg/L	1.00
801603-002	PGE-14-025-M05b	SM9221E	NONE	5/15/2012	13:49	Coliform, Fecal	ND	MPN/100 mL	2
801603-002	PGE-14-025-M05b	SM9221B	NONE	5/15/2012	13:49	Coliform, Total	ND	MPN/100 mL	2
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Aluminum	ND	ug/L	50.0
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	BORON	ND	ug/L	200
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Calcium	40.7	mg/L	10.0
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Iron	46.7	ug/L	20.0
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Magnesium	8.83	mg/L	0.500
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Nickel	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Potassium	2.09	mg/L	0.500
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Sodium	51.6	mg/L	10.0
801603-002	PGE-14-025-M05b	SW6010B	FLDFLT	5/15/2012	13:49	Zinc	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Arsenic	13.1	ug/L	1.0
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Barium	122	ug/L	10.0
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Chromium	ND	ug/L	1.0
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Manganese	74.3	ug/L	0.50
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Molybdenum	ND	ug/L	10.0
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Silver	ND	ug/L	5.0
801603-002	PGE-14-025-M05b	SW6020	FLDFLT	5/15/2012	13:49	Vanadium	6.0	ug/L	5.0

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-003	FWPGEMIX-025-M05b	E120.1	NONE	5/15/2012	15:06	EC	467	umhos/cm	2.00
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Aluminum	ND	ug/L	50.0
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	BORON	ND	ug/L	200
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Calcium	37.3	mg/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Iron	ND	ug/L	20.0
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Magnesium	6.80	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Nickel	ND	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Potassium	2.63	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Sodium	46.1	mg/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.7	NONE	5/15/2012	15:06	Zinc	16.8	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Antimony	ND	ug/L	5.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Arsenic	1.1	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Barium	43.4	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Beryllium	ND	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Cadmium	ND	ug/L	3.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Chromium	ND	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Cobalt	ND	ug/L	5.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Copper	ND	ug/L	5.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Lead	ND	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Manganese	1.2	ug/L	0.50
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Mercury	ND	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Molybdenum	ND	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Selenium	ND	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Silver	ND	ug/L	5.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Thallium	ND	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Uranium, Total	1.64	pCi/L	1.00
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Uranium, Total	2.4	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	E200.8	NONE	5/15/2012	15:06	Vanadium	ND	ug/L	5.0
801603-003	FWPGEMIX-025-M05b	E218.6	FLDFLT	5/15/2012	15:06	Chromium, hexavalent	0.68	ug/L	0.20
801603-003	FWPGEMIX-025-M05b	E300	NONE	5/15/2012	15:06	Bromide	ND	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	E300	NONE	5/15/2012	15:06	Chloride	36.0	mg/L	1.00
801603-003	FWPGEMIX-025-M05b	E300	NONE	5/15/2012	15:06	Fluoride	0.676	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	E300	NONE	5/15/2012	15:06	Nitrate as N	0.652	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	E300	NONE	5/15/2012	15:06	Sulfate	51.2	mg/L	2.50
801603-003	FWPGEMIX-025-M05b	EPA 900.0	NONE	5/15/2012	15:06	Gross Alpha	ND	pCi/L	3.00
801603-003	FWPGEMIX-025-M05b	EPA 900.0	NONE	5/15/2012	15:06	GROSS BETA	ND	pCi/L	4.00
801603-003	FWPGEMIX-025-M05b	SM 9223B	NONE	5/15/2012	15:06	E. Coli	ND	MPN/100 mL	1
801603-003	FWPGEMIX-025-M05b	SM2130B	NONE	5/15/2012	15:06	Turbidity	0.126	NTU	0.100

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-003	FWPGEMIX-025-M05b	SM2320B	NONE	5/15/2012	15:06	Alkalinity	115	mg/L	5.00
801603-003	FWPGEMIX-025-M05b	SM2320B	NONE	5/15/2012	15:06	Bicarbonate	115	mg/L	5.00
801603-003	FWPGEMIX-025-M05b	SM2320B	NONE	5/15/2012	15:06	Carbonate	ND	mg/L	5.00
801603-003	FWPGEMIX-025-M05b	SM2540C	NONE	5/15/2012	15:06	Total Dissolved Solids	293	mg/L	25.0
801603-003	FWPGEMIX-025-M05b	SM2540D	NONE	5/15/2012	15:06	Total Suspended Solids	ND	mg/L	10.0
801603-003	FWPGEMIX-025-M05b	SM4500CN	NONE	5/15/2012	15:06	Cyanide	ND	mg/L	0.0100
801603-003	FWPGEMIX-025-M05b	SM4500HB	NONE	5/15/2012	15:06	PH	7.54	pH	4.00
801603-003	FWPGEMIX-025-M05b	SM4500NH3D	NONE	5/15/2012	15:06	Ammonia-N	ND	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	SM4500NO2B	NONE	5/15/2012	15:06	Nitrite as N	ND	mg/L	0.0050
801603-003	FWPGEMIX-025-M05b	SM4500-NOrgE	NONE	5/15/2012	15:06	Total Kjeldahl Nitrogen	0.560	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	SM4500-PB_E	NONE	5/15/2012	15:06	Total Phosphorous-P	0.0270	mg/L	0.0200
801603-003	FWPGEMIX-025-M05b	SM4500-PE	FLDFLT	5/15/2012	15:06	Ortho Phosphate as P	0.0291	mg/L	0.0200
801603-003	FWPGEMIX-025-M05b	SM4500-SD	NONE	5/15/2012	15:06	Total Sulfide	ND	mg/L	2.00
801603-003	FWPGEMIX-025-M05b	SM4500SI	FLDFLT	5/15/2012	15:06	Soluble Silica	38.3	mg/L	1.00
801603-003	FWPGEMIX-025-M05b	SM9221E	NONE	5/15/2012	15:06	Coliform, Fecal	ND	MPN/100 mL	2
801603-003	FWPGEMIX-025-M05b	SM9221B	NONE	5/15/2012	15:06	Coliform, Total	ND	MPN/100 mL	2
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Aluminum	ND	ug/L	50.0
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	BORON	ND	ug/L	200
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Calcium	36.2	mg/L	10.0
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Iron	ND	ug/L	20.0
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Magnesium	6.97	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Nickel	ND	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Potassium	2.72	mg/L	0.500
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Sodium	45.2	mg/L	10.0
801603-003	FWPGEMIX-025-M05b	SW6010B	FLDFLT	5/15/2012	15:06	Zinc	17.2	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Arsenic	ND	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Barium	44.5	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Chromium	ND	ug/L	1.0
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Manganese	ND	ug/L	0.50
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Molybdenum	ND	ug/L	10.0
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Silver	ND	ug/L	5.0
801603-003	FWPGEMIX-025-M05b	SW6020	FLDFLT	5/15/2012	15:06	Vanadium	ND	ug/L	5.0

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-004	FW-01-025-M05b	E120.1	NONE	5/15/2012	15:51	EC	416	umhos/cm	2.00
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Aluminum	ND	ug/L	50.0
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	BORON	ND	ug/L	200
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Calcium	34.0	mg/L	10.0
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Iron	ND	ug/L	20.0
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Magnesium	5.51	mg/L	0.500
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Nickel	ND	ug/L	10.0
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Potassium	2.36	mg/L	0.500
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Sodium	41.7	mg/L	10.0
801603-004	FW-01-025-M05b	E200.7	NONE	5/15/2012	15:51	Zinc	ND	ug/L	10.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Antimony	ND	ug/L	5.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Arsenic	1.3	ug/L	1.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Barium	46.0	ug/L	10.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Beryllium	ND	ug/L	1.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Cadmium	ND	ug/L	3.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Chromium	1.0	ug/L	1.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Cobalt	ND	ug/L	5.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Copper	ND	ug/L	5.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Lead	ND	ug/L	10.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Manganese	2.0	ug/L	0.50
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Mercury	ND	ug/L	1.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Molybdenum	ND	ug/L	10.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Selenium	ND	ug/L	10.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Silver	ND	ug/L	5.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Thallium	ND	ug/L	1.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Uranium, Total	2.14	pCi/L	1.00
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Uranium, Total	3.2	ug/L	1.0
801603-004	FW-01-025-M05b	E200.8	NONE	5/15/2012	15:51	Vanadium	7.5	ug/L	5.0
801603-004	FW-01-025-M05b	E218.6	FLDFLT	5/15/2012	15:51	Chromium, hexavalent	0.84	ug/L	0.20
801603-004	FW-01-025-M05b	E300	NONE	5/15/2012	15:51	Bromide	ND	mg/L	0.500
801603-004	FW-01-025-M05b	E300	NONE	5/15/2012	15:51	Chloride	29.4	mg/L	1.00
801603-004	FW-01-025-M05b	E300	NONE	5/15/2012	15:51	Fluoride	0.639	mg/L	0.500
801603-004	FW-01-025-M05b	E300	NONE	5/15/2012	15:51	Nitrate as N	1.01	mg/L	0.500
801603-004	FW-01-025-M05b	E300	NONE	5/15/2012	15:51	Sulfate	42.3	mg/L	2.50
801603-004	FW-01-025-M05b	EPA 900.0	NONE	5/15/2012	15:51	Gross Alpha	ND	pCi/L	3.00
801603-004	FW-01-025-M05b	EPA 900.0	NONE	5/15/2012	15:51	GROSS BETA	ND	pCi/L	4.00
801603-004	FW-01-025-M05b	SM 9223B	NONE	5/15/2012	15:51	E. Coli	ND	MPN/100 mL	1
801603-004	FW-01-025-M05b	SM2130B	NONE	5/15/2012	15:51	Turbidity	0.113	NTU	0.100

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TRUESDAIL LABORATORIES, INC.

Report Continued

Revision 1; June 1, 2012

Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801603-004	FW-01-025-M05b	SM2320B	NONE	5/15/2012	15:51	Alkalinity	110	mg/L	5.00
801603-004	FW-01-025-M05b	SM2320B	NONE	5/15/2012	15:51	Bicarbonate	110	mg/L	5.00
801603-004	FW-01-025-M05b	SM2320B	NONE	5/15/2012	15:51	Carbonate	ND	mg/L	5.00
801603-004	FW-01-025-M05b	SM2540C	NONE	5/15/2012	15:51	Total Dissolved Solids	252	mg/L	25.0
801603-004	FW-01-025-M05b	SM2540D	NONE	5/15/2012	15:51	Total Suspended Solids	ND	mg/L	10.0
801603-004	FW-01-025-M05b	SM4500CN	NONE	5/15/2012	15:51	Cyanide	ND	mg/L	0.0100
801603-004	FW-01-025-M05b	SM4500HB	NONE	5/15/2012	15:51	PH	7.52	pH	4.00
801603-004	FW-01-025-M05b	SM4500NH3D	NONE	5/15/2012	15:51	Ammonia-N	ND	mg/L	0.500
801603-004	FW-01-025-M05b	SM4500NO2B	NONE	5/15/2012	15:51	Nitrite as N	ND	mg/L	0.0050
801603-004	FW-01-025-M05b	SM4500-NOrgE	NONE	5/15/2012	15:51	Total Kjeldahl Nitrogen	10.4	mg/L	0.500
801603-004	FW-01-025-M05b	SM4500-PB_E	NONE	5/15/2012	15:51	Total Phosphorous-P	0.0655	mg/L	0.0200
801603-004	FW-01-025-M05b	SM4500-PE	FLDFLT	5/15/2012	15:51	Ortho Phosphate as P	0.0615	mg/L	0.0200
801603-004	FW-01-025-M05b	SM4500-SD	NONE	5/15/2012	15:51	Total Sulfide	ND	mg/L	2.00
801603-004	FW-01-025-M05b	SM4500SI	FLDFLT	5/15/2012	15:51	Soluble Silica	27.4	mg/L	1.00
801603-004	FW-01-025-M05b	SM9221E	NONE	5/15/2012	15:51	Coliform, Fecal	ND	MPN/100 mL	2
801603-004	FW-01-025-M05b	SM9221B	NONE	5/15/2012	15:51	Coliform, Total	ND	MPN/100 mL	2
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Aluminum	ND	ug/L	50.0
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	BORON	ND	ug/L	200
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Calcium	33.7	mg/L	10.0
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Iron	ND	ug/L	20.0
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Magnesium	5.62	mg/L	0.500
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Nickel	ND	ug/L	10.0
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Potassium	2.50	mg/L	0.500
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Sodium	41.9	mg/L	10.0
801603-004	FW-01-025-M05b	SW6010B	FLDFLT	5/15/2012	15:51	Zinc	ND	ug/L	10.0
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Arsenic	1.4	ug/L	1.0
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Barium	45.5	ug/L	10.0
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Chromium	1.1	ug/L	1.0
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Manganese	2.6	ug/L	0.50
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Molybdenum	ND	ug/L	10.0
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Silver	ND	ug/L	5.0
801603-004	FW-01-025-M05b	SW6020	FLDFLT	5/15/2012	15:51	Vanadium	7.5	ug/L	5.0

ND: Non Detected (below reporting limit)

mg/L: Milligrams per liter.

Note: The following "Significant Figures" rule has been applied to all results:
Results below 0.01ppm will have two (2) significant figures.
Result above or equal to 0.01ppm will have three (3) significant figures.
Quality Control data will always have three (3) significant figures.

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TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING
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REPORT

Client: **CH2MHill**
155 Grand Avenue, Suite 800
Oakland, CA 94612
Attention: Jennifer Low
Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW
P.O. Number: 423405.GW.FW.SW
Release Number:

Laboratory No. 801603

Printed 5/31/2012

Samples Received on 5/15/2012 8:30:00 PM

Field ID	Lab ID	Collected	Matrix
PGE-14-EFF-025-M0!	801603-001	05/15/2012 13:17	Water
PGE-14-025-M05b	801603-002	05/15/2012 13:49	Water
FWPGEMIX-025-M05	801603-003	05/15/2012 15:06	Water
FW-01-025-M05b	801603-004	05/15/2012 15:51	Water

Anions By I.C. - EPA 300.0

Batch 05AN12N

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Bromide	mg/L	05/16/2012 14:11	1.00	0.0110	0.500	ND
	Chloride	mg/L	05/16/2012 16:05	10.0	0.360	2.00	45.4
	Fluoride	mg/L	05/16/2012 14:11	1.00	0.0310	0.500	0.755
	Nitrate as Nitrogen	mg/L	05/16/2012 14:11	1.00	0.0270	0.500	ND
	Sulfate	mg/L	05/16/2012 16:05	10.0	1.14	5.00	64.0
801603-002	Bromide	mg/L	05/16/2012 14:22	1.00	0.0110	0.500	ND
	Chloride	mg/L	05/16/2012 16:16	10.0	0.360	2.00	48.0
	Fluoride	mg/L	05/16/2012 14:22	1.00	0.0310	0.500	0.743
	Nitrate as Nitrogen	mg/L	05/16/2012 14:22	1.00	0.0270	0.500	ND
	Sulfate	mg/L	05/16/2012 16:16	10.0	1.14	5.00	67.7
801603-003	Bromide	mg/L	05/16/2012 14:34	1.00	0.0110	0.500	ND
	Chloride	mg/L	05/16/2012 12:05	5.00	0.180	1.00	36.0
	Fluoride	mg/L	05/16/2012 14:34	1.00	0.0310	0.500	0.676
	Nitrate as Nitrogen	mg/L	05/16/2012 14:34	1.00	0.0270	0.500	0.652
	Sulfate	mg/L	05/16/2012 12:05	5.00	0.570	2.50	51.2
801603-004	Bromide	mg/L	05/16/2012 15:08	1.00	0.0110	0.500	ND
	Chloride	mg/L	05/16/2012 12:17	5.00	0.180	1.00	29.4
	Fluoride	mg/L	05/16/2012 14:08	1.00	0.0310	0.500	0.639
	Nitrate as Nitrogen	mg/L	05/16/2012 15:08	1.00	0.0270	0.500	1.01

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801603-004 Sulfate	mg/L	05/16/2012 12:17	5.00	0.570	2.50	42.3

Method Blank

Parameter	Unit	DF	Result
Bromide	mg/L	1.00	ND
Chloride	mg/L	1.00	ND
Fluoride	mg/L	1.00	ND
Sulfate	mg/L	1.00	ND
Nitrate as Nitrogen	mg/L	1.00	ND

Duplicate — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Bromide	mg/L	1.00	ND	0.00	0	0 - 20
Chloride	mg/L	1.00	ND	0.00	0	0 - 20
Fluoride	mg/L	1.00	ND	0.00	0	0 - 20
Sulfate	mg/L	1.00	ND	0.00	0	0 - 20
Nitrate as Nitrogen	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Bromide	mg/L	1.00	3.95	4.00	98.8	90 - 110
Chloride	mg/L	1.00	3.96	4.00	99.1	90 - 110
Fluoride	mg/L	1.00	4.06	4.00	102.	90 - 110
Sulfate	mg/L	1.00	20.1	20.0	100.	90 - 110
Nitrate as Nitrogen	mg/L	1.00	4.03	4.00	101.	90 - 110

Matrix Spike — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Bromide	mg/L	1.00	1.88	2.00(2.00)	94.0	85 - 115
Chloride	mg/L	1.00	2.02	2.00(2.00)	101.	85 - 115
Fluoride	mg/L	1.00	2.20	2.00(2.00)	110.	85 - 115
Sulfate	mg/L	1.00	2.07	2.00(2.00)	104.	85 - 115
Nitrate as Nitrogen	mg/L	1.00	2.13	2.00(2.00)	106.	85 - 115

Matrix Spike Duplicate — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Bromide	mg/L	1.00	1.87	2.00(2.00)	93.3	85 - 115
Chloride	mg/L	1.00	2.00	2.00(2.00)	100.	85 - 115
Fluoride	mg/L	1.00	2.18	2.00(2.00)	109.	85 - 115
Sulfate	mg/L	1.00	2.06	2.00(2.00)	103.	85 - 115
Nitrate as Nitrogen	mg/L	1.00	2.09	2.00(2.00)	104.	85 - 115

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Nitrite SM 4500-NO2 B

Batch 05NO212G

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Nitrite as Nitrogen	mg/L	05/16/2012 12:43	1.00	0.000360	0.0050	ND
801603-002 Nitrite as Nitrogen	mg/L	05/16/2012 12:44	1.00	0.000360	0.0050	ND
801603-003 Nitrite as Nitrogen	mg/L	05/16/2012 12:45	1.00	0.000360	0.0050	ND
801603-004 Nitrite as Nitrogen	mg/L	05/16/2012 12:46	1.00	0.000360	0.0050	ND

Method Blank

Parameter	Unit	DF	Result
Nitrite as Nitrogen	mg/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0379	0.0400	94.8	90 - 110

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0201	0.0200(0.0200)	100.	85 - 115

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0193	0.0200	96.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0200	0.0200	100.	90 - 110

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Alkalinity by SM 2320B

Batch 05ALK12F

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Alkalinity as CaCO3	mg/L	05/17/2012	1.00	1.68	5.00	119
	Bicarbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	119
	Carbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	ND
801603-002	Alkalinity as CaCO3	mg/L	05/17/2012	1.00	1.68	5.00	124
	Bicarbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	124
	Carbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	ND
801603-003	Alkalinity as CaCO3	mg/L	05/17/2012	1.00	1.68	5.00	115
	Bicarbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	115
	Carbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	ND
801603-004	Alkalinity as CaCO3	mg/L	05/17/2012	1.00	1.68	5.00	110.
	Bicarbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	110.
	Carbonate (Calculated)	mg/L	05/17/2012	1.00	1.68	5.00	ND

Method Blank

Parameter	Unit	DF	Result
Alkalinity as CaCO3	mg/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	111	110.	0.905	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	100.	100.	100.	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	98.0	100.	98.0	90 - 110

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	200.	210.(100.)	90.0	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	201	210.(100.)	91.0	75 - 125

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Specific Conductivity - EPA 120.1

Batch 05EC12F

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Specific Conductivity	umhos/cm	05/16/2012	1.00	0.0950	2.00	521
801603-002 Specific Conductivity	umhos/cm	05/16/2012	1.00	0.0950	2.00	521
801603-003 Specific Conductivity	umhos/cm	05/16/2012	1.00	0.0950	2.00	467
801603-004 Specific Conductivity	umhos/cm	05/16/2012	1.00	0.0950	2.00	416

Method Blank

Parameter	Unit	DF	Result
Specific Conductivity	umhos	1.00	ND

Duplicate — Lab ID = 801606-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Specific Conductivity	umhos	1.00	7320	7320	0.00	0 - 10

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Specific Conductivity	umhos	1.00	703	706	99.6	90 - 110

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Specific Conductivity	umhos	1.00	704	706	99.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Specific Conductivity	umhos	1.00	992	998	99.4	90 - 110

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Gross Beta per 900.0

Batch 12B-05-C

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Gross Beta	pCi/L	05/23/2012	1.00	1.19	4.00	ND
	Gross Beta Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.21
801603-002	Gross Beta	pCi/L	05/23/2012	1.00	1.19	4.00	ND
	Gross Beta Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.41
801603-003	Gross Beta	pCi/L	05/23/2012	1.00	1.19	4.00	ND
	Gross Beta Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.20
801603-004	Gross Beta	pCi/L	05/23/2012	1.00	1.19	4.00	ND
	Gross Beta Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.55

Method Blank

Parameter	Unit	DF	Result
Gross Beta	pCi/L	1.00	ND
Gross Beta Counting Error	pCi/L	1.00	0.770

Duplicate — Lab ID = 801284-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Gross Beta	pCi/L	1.00	ND	0.00	0	0 - 20
Gross Beta Counting Error	pCi/L	1.00	1.91	1.89	1.05	

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Gross Beta	pCi/L	1.00	40.4	38.6	104.	80 - 120
Gross Beta Counting Error	pCi/L	1.00	3.36	0.00		

Matrix Spike — Lab ID = 801284-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Gross Beta	pCi/L	1.00	159.	155(155)	103.	75 - 125
Gross Beta Counting Error	pCi/L	1.00	8.11	1.89(0.00)		

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Chrome VI by EPA 218.6

Batch 05CrH12L

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Chromium, Hexavalent	ug/L	05/16/2012 11:03	1.00	0.0250	0.20	0.35
801603-002 Chromium, Hexavalent	ug/L	05/16/2012 11:13	1.00	0.0250	0.20	0.38
801603-003 Chromium, Hexavalent	ug/L	05/16/2012 11:24	1.00	0.0250	0.20	0.68
801603-004 Chromium, Hexavalent	ug/L	05/16/2012 11:34	1.00	0.0250	0.20	0.84

Method Blank

Parameter	Unit	DF	Result
Chromium, Hexavalent	ug/L	1.00	ND

Duplicate — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.330	0.351	6.23	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.172	0.200	86.2	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	4.91	5.00	98.2	90 - 110

Matrix Spike — Lab ID = 801340-012

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.78	1.76(1.00)	102.	90 - 110

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.34	1.35(1.00)	98.6	90 - 110

Matrix Spike — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.39	1.38(1.00)	101.	90 - 110

Matrix Spike — Lab ID = 801603-003

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.69	1.68(1.00)	102.	90 - 110

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.86	1.84(1.00)	102.	90 - 110

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Metals by EPA 200.7, Total

Batch 051712A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Calcium	mg/L	05/17/2012 16:52	20.0	0.391	10.0	40.4
	Sodium	mg/L	05/17/2012 16:52	20.0	1.17	10.0	51.4
801603-002	Calcium	mg/L	05/17/2012 16:57	20.0	0.391	10.0	39.9
	Sodium	mg/L	05/17/2012 16:57	20.0	1.17	10.0	50.7
801603-003	Calcium	mg/L	05/17/2012 17:14	20.0	0.391	10.0	37.3
	Sodium	mg/L	05/17/2012 17:14	20.0	1.17	10.0	46.1
801603-004	Calcium	mg/L	05/17/2012 17:19	20.0	0.391	10.0	34.0
	Sodium	mg/L	05/17/2012 17:19	20.0	1.17	10.0	41.7

Method Blank

Parameter	Unit	DF	Result
Calcium	mg/L	1.00	ND
Sodium	mg/L	1.00	ND

Duplicate — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Calcium	mg/L	20.0	41.1	39.9	2.99	0 - 20
Sodium	mg/L	20.0	52.4	50.7	3.37	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	2.20	2.00	110.	85 - 115
Sodium	mg/L	1.00	2.08	2.00	104.	85 - 115

Matrix Spike — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Calcium	mg/L	20.0	81.6	79.9(40.0)	104.	75 - 125
Sodium	mg/L	20.0	91.2	90.7(40.0)	101.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	5.22	5.00	104.	95 - 105
Sodium	mg/L	1.00	4.95	5.00	99.1	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	4.87	5.00	97.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	4.92	5.00	98.3	90 - 110

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Metals by EPA 200.7, Total

Batch 051812B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Aluminum	ug/L	05/18/2012 20:22	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 20:22	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 20:22	1.00	1.34	20.0	ND
	Magnesium	mg/L	05/18/2012 20:22	1.00	0.0619	0.500	8.52
	Nickel	ug/L	05/18/2012 20:22	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 20:22	1.00	0.0685	0.500	2.15
	Zinc	ug/L	05/18/2012 20:22	1.00	3.89	10.0	ND
801603-002	Aluminum	ug/L	05/18/2012 20:28	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 20:28	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 20:28	1.00	1.34	20.0	57.9
	Magnesium	mg/L	05/18/2012 20:28	1.00	0.0619	0.500	8.49
	Nickel	ug/L	05/18/2012 20:28	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 20:28	1.00	0.0685	0.500	2.10
	Zinc	ug/L	05/18/2012 20:28	1.00	3.89	10.0	ND
801603-003	Aluminum	ug/L	05/18/2012 20:54	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 20:54	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 20:54	1.00	1.34	20.0	ND
	Magnesium	mg/L	05/18/2012 20:54	1.00	0.0619	0.500	6.80
	Nickel	ug/L	05/18/2012 20:54	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 20:54	1.00	0.0685	0.500	2.63
	Zinc	ug/L	05/18/2012 20:54	1.00	3.89	10.0	16.8
801603-004	Aluminum	ug/L	05/18/2012 21:00	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 21:00	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 21:00	1.00	1.34	20.0	ND
	Magnesium	mg/L	05/18/2012 21:00	1.00	0.0619	0.500	5.51
	Nickel	ug/L	05/18/2012 21:00	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 21:00	1.00	0.0685	0.500	2.36
	Zinc	ug/L	05/18/2012 21:00	1.00	3.89	10.0	ND

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Method Blank

Parameter	Unit	DF	Result
Aluminum	ug/L	1.00	ND
Iron	ug/L	1.00	ND
Nickel	ug/L	1.00	ND
Zinc	ug/L	1.00	ND
Potassium	mg/L	1.00	ND
Magnesium	mg/L	1.00	ND
Boron	ug/L	1.00	ND

Duplicate — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Aluminum	ug/L	1.00	ND	0.00	0	0 - 20
Iron	ug/L	1.00	61.9	57.9	6.68	0 - 20
Nickel	ug/L	1.00	ND	0.00	0	0 - 20
Zinc	ug/L	1.00	ND	0.00	0	0 - 20
Potassium	mg/L	1.00	2.16	2.10	2.72	0 - 20
Magnesium	mg/L	1.00	8.74	8.49	2.84	0 - 20
Boron	ug/L	1.00	ND	154	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	2230	2000	112.	85 - 115
Iron	ug/L	1.00	2270	2000	113.	85 - 115
Nickel	ug/L	1.00	2070	2000	103.	85 - 115
Zinc	ug/L	1.00	2110	2000	106.	85 - 115
Potassium	mg/L	1.00	2.26	2.00	113.	85 - 115
Magnesium	mg/L	1.00	2.12	2.00	106.	85 - 115
Boron	ug/L	1.00	2060	2000	103.	85 - 115

Matrix Spike — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Aluminum	ug/L	1.00	2150	2000(2000)	107.	75 - 125
Iron	ug/L	1.00	2470	2060(2000)	121.	75 - 125
Nickel	ug/L	1.00	2240	2000(2000)	112.	75 - 125
Zinc	ug/L	1.00	2400	2000(2000)	120.	75 - 125
Potassium	mg/L	1.00	4.32	4.10(2.00)	111.	75 - 125
Magnesium	mg/L	1.00	10.7	10.5(2.00)	112	75 - 125
Boron	ug/L	1.00	2110	2150(2000)	97.8	75 - 125

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Metals by EPA 6020A, Dissolved

Batch 051912A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Chromium	ug/L	05/20/2012 00:20	5.00	0.195	1.0	ND
	Molybdenum	ug/L	05/20/2012 00:20	5.00	0.150	10.0	ND
	Vanadium	ug/L	05/20/2012 00:20	5.00	0.325	5.0	ND
801603-002	Chromium	ug/L	05/20/2012 01:10	5.00	0.195	1.0	ND
	Molybdenum	ug/L	05/20/2012 01:10	5.00	0.150	10.0	ND
	Vanadium	ug/L	05/20/2012 01:10	5.00	0.325	5.0	6.0
801603-003	Chromium	ug/L	05/20/2012 01:18	5.00	0.195	1.0	ND
	Molybdenum	ug/L	05/20/2012 01:18	5.00	0.150	10.0	ND
	Vanadium	ug/L	05/20/2012 01:18	5.00	0.325	5.0	ND
801603-004	Chromium	ug/L	05/20/2012 01:25	5.00	0.195	1.0	1.1
	Molybdenum	ug/L	05/20/2012 01:25	5.00	0.150	10.0	ND
	Vanadium	ug/L	05/20/2012 01:25	5.00	0.325	5.0	7.5

Method Blank

Parameter	Unit	DF	Result
Chromium	ug/L	1.00	ND
Vanadium	ug/L	1.00	ND
Molybdenum	ug/L	1.00	ND

Duplicate

Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Chromium	ug/L	5.00	ND	0.00	0	0 - 20
Vanadium	ug/L	5.00	ND	0.00	0	0 - 20
Molybdenum	ug/L	5.00	ND	4.45	0	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	0.164	0.200	82.2	70 - 130
Vanadium	ug/L	1.00	1.02	1.00	102.	70 - 130
Molybdenum	ug/L	1.00	1.06	1.00	106.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	5.00	92.0	100.	92.0	85 - 115
Vanadium	ug/L	5.00	94.1	100.	94.1	85 - 115
Molybdenum	ug/L	5.00	96.0	100.	96.0	85 - 115

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Matrix Spike Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium	ug/L	5.00	102.	100.(100.)	102.	75 - 125
Vanadium	ug/L	5.00	103.	100.(100.)	103.	75 - 125
Molybdenum	ug/L	5.00	104.	104.(100.)	99.2	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.61	10.0	96.1	90 - 110
Vanadium	ug/L	1.00	9.80	10.0	98.0	90 - 110
Molybdenum	ug/L	1.00	10.5	10.0	105.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.58	10.0	95.8	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.24	10.0	92.4	90 - 100

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.59	10.0	95.9	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.62	10.0	96.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Vanadium	ug/L	1.00	9.67	10.0	96.7	90 - 100

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Vanadium	ug/L	1.00	9.67	10.0	96.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Vanadium	ug/L	1.00	9.70	10.0	97.0	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Vanadium	ug/L	1.00	9.86	10.0	98.6	90 - 110

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Metals by EPA 6020A, Dissolved

Batch 052212B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Barium	ug/L	05/23/2012 19:15	5.00	0.205	10.0	35.5
801603-002 Barium	ug/L	05/23/2012 19:07	5.00	0.205	10.0	122.
801603-003 Barium	ug/L	05/23/2012 19:00	5.00	0.205	10.0	44.5
801603-004 Barium	ug/L	05/23/2012 18:02	5.00	0.205	10.0	45.5

Method Blank

Parameter	Unit	DF	Result
Barium	ug/L	1.00	ND
Chromium	ug/L	1.00	ND
Selenium	ug/L	1.00	ND
Manganese	ug/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Barium	ug/L	5.00	47.0	45.5	3.31	0 - 20
Chromium	ug/L	5.00	0.993	1.03	3.66	0 - 20
Selenium	ug/L	5.00	ND	0.00	0	0 - 20
Manganese	ug/L	5.00	2.30	2.60	12.4	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	0.955	1.00	95.5	70 - 130
Chromium	ug/L	1.00	0.219	0.200	109.	70 - 130
Selenium	ug/L	1.00	0.997	1.00	99.7	70 - 130
Manganese	ug/L	1.00	0.183	0.200	91.4	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	5.00	104.	100.	104.	85 - 115
Chromium	ug/L	5.00	106.	100.	106.	85 - 115
Selenium	ug/L	5.00	82.7	100.	82.7	85 - 115
Manganese	ug/L	5.00	106.	100.	106.	85 - 115

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Barium	ug/L	5.00	141	146.(100.)	95.5	75 - 125
Chromium	ug/L	5.00	98.2	101.(100.)	97.1	75 - 125
Selenium	ug/L	5.00	85.5	100.(100.)	85.5	75 - 125
Manganese	ug/L	5.00	98.3	103.(100.)	95.7	75 - 125

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Matrix Spike Duplicate Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Barium	ug/L	5.00	142	146.(100.)	96.5	75 - 125
Chromium	ug/L	5.00	100.	101.(100.)	99.0	75 - 125
Selenium	ug/L	5.00	85.6	100.(100.)	85.6	75 - 125
Manganese	ug/L	5.00	99.4	103.(100.)	96.8	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	10.0	10.0	100.	90 - 110
Chromium	ug/L	1.00	9.83	10.0	98.3	90 - 110
Selenium	ug/L	1.00	9.64	10.0	96.4	90 - 110
Manganese	ug/L	1.00	9.84	10.0	98.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	9.87	10.0	98.7	90 - 100

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	9.71	10.0	97.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	10.1	10.0	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	9.81	10.0	98.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	9.78	10.0	97.8	90 - 110
Chromium	ug/L	1.00	9.75	10.0	97.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	10.0	10.0	100.	90 - 100

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.71	10.0	97.1	90 - 110

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Metals by EPA 6020A, Dissolved

Batch 052312B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Arsenic	ug/L	05/24/2012 14:13	1.00	0.0530	1.0	ND
	Manganese	ug/L	05/24/2012 14:13	1.00	0.0540	0.50	ND
	Silver	ug/L	05/24/2012 14:13	1.00	0.0250	5.0	ND
801603-002	Arsenic	ug/L	05/24/2012 04:06	5.00	0.265	1.0	13.1
	Manganese	ug/L	05/24/2012 04:06	5.00	0.270	1.0	74.3
	Silver	ug/L	05/24/2012 04:06	5.00	0.125	5.0	ND
801603-003	Arsenic	ug/L	05/24/2012 14:06	1.00	0.0530	1.0	ND
	Manganese	ug/L	05/24/2012 14:06	1.00	0.0540	0.50	ND
	Silver	ug/L	05/24/2012 14:06	1.00	0.0250	5.0	ND
801603-004	Arsenic	ug/L	05/24/2012 13:29	1.00	0.0530	1.0	1.4
	Manganese	ug/L	05/24/2012 13:29	1.00	0.0540	0.50	2.6
	Silver	ug/L	05/24/2012 13:29	1.00	0.0250	5.0	ND

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND
Silver	ug/L	1.00	ND
Manganese	ug/L	1.00	ND

Duplicate

Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Arsenic	ug/L	1.00	1.44	1.42	1.19	0 - 20
Silver	ug/L	1.00	ND	0.00	0	0 - 20
Manganese	ug/L	1.00	2.26	2.66	16.3	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.244	0.200	122.	70 - 130
Silver	ug/L	1.00	1.06	1.00	106.	70 - 130
Manganese	ug/L	1.00	0.194	0.200	96.8	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	94.6	100.	94.6	85 - 115
Silver	ug/L	5.00	98.4	100.	98.4	85 - 115
Manganese	ug/L	5.00	97.3	100.	97.3	85 - 115

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Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	87.4	101.(100.)	86.0	75 - 125
Silver	ug/L	1.00	90.5	100.(100.)	90.5	75 - 125
Manganese	ug/L	1.00	101.	103.(100.)	98.0	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	86.6	101.(100.)	85.2	75 - 125
Silver	ug/L	1.00	90.5	100.(100.)	90.5	75 - 125
Manganese	ug/L	1.00	100.	103.(100.)	97.4	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.42	10.0	94.2	90 - 110
Silver	ug/L	1.00	11.4	10.0	114.	90 - 110
Manganese	ug/L	1.00	9.71	10.0	97.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.97	10.0	99.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.77	10.0	97.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.54	10.0	95.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.51	10.0	95.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.40	10.0	94.0	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.97	10.0	99.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	10.4	10.0	104.	90 - 110

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Metals by EPA 6010B, Dissolved

Batch 051712A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Calcium	mg/L	05/17/2012 16:01	20.0	0.391	10.0	40.5
	Sodium	mg/L	05/17/2012 16:01	20.0	1.17	10.0	51.9
801603-002	Calcium	mg/L	05/17/2012 16:06	20.0	0.391	10.0	40.7
	Sodium	mg/L	05/17/2012 16:06	20.0	1.17	10.0	51.6
801603-003	Calcium	mg/L	05/17/2012 16:41	20.0	0.391	10.0	36.2
	Sodium	mg/L	05/17/2012 16:41	20.0	1.17	10.0	45.2
801603-004	Calcium	mg/L	05/17/2012 16:46	20.0	0.391	10.0	33.7
	Sodium	mg/L	05/17/2012 16:46	20.0	1.17	10.0	41.9

Method Blank

Parameter	Unit	DF	Result
Calcium	mg/L	1.00	ND
Sodium	mg/L	1.00	ND

Duplicate — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Calcium	mg/L	20.0	40.6	40.7	0.221	0 - 20
Sodium	mg/L	20.0	51.3	51.6	0.583	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	2.20	2.00	110.	85 - 115
Sodium	mg/L	1.00	2.08	2.00	104.	85 - 115

Matrix Spike — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Calcium	mg/L	20.0	81.8	80.7(40.0)	103.	75 - 125
Sodium	mg/L	20.0	90.4	91.6(40.0)	97.0	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	5.22	5.00	104.	90 - 110
Sodium	mg/L	1.00	4.95	5.00	99.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	4.87	5.00	97.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	4.92	5.00	98.3	90 - 110

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Metals by EPA 6010B, Dissolved

Batch 051812B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Aluminum	ug/L	05/18/2012 18:57	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 18:57	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 18:57	1.00	1.34	20.0	ND
	Magnesium	mg/L	05/18/2012 18:57	1.00	0.0619	0.500	8.94
	Nickel	ug/L	05/18/2012 18:57	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 18:57	1.00	0.0685	0.500	2.28
	Zinc	ug/L	05/18/2012 18:57	1.00	3.89	10.0	ND
801603-002	Aluminum	ug/L	05/18/2012 19:02	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 19:02	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 19:02	1.00	1.34	20.0	46.7
	Magnesium	mg/L	05/18/2012 19:02	1.00	0.0619	0.500	8.83
	Nickel	ug/L	05/18/2012 19:02	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 19:02	1.00	0.0685	0.500	2.09
	Zinc	ug/L	05/18/2012 19:02	1.00	3.89	10.0	ND
801603-003	Aluminum	ug/L	05/18/2012 19:42	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 19:42	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 19:42	1.00	1.34	20.0	ND
	Magnesium	mg/L	05/18/2012 19:42	1.00	0.0619	0.500	6.97
	Nickel	ug/L	05/18/2012 19:42	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 19:42	1.00	0.0685	0.500	2.72
	Zinc	ug/L	05/18/2012 19:42	1.00	3.89	10.0	17.2
801603-004	Aluminum	ug/L	05/18/2012 20:17	1.00	2.83	50.0	ND
	Boron	ug/L	05/18/2012 20:17	1.00	1.50	200.	ND
	Iron	ug/L	05/18/2012 20:17	1.00	1.34	20.0	ND
	Magnesium	mg/L	05/18/2012 20:17	1.00	0.0619	0.500	5.62
	Nickel	ug/L	05/18/2012 20:17	1.00	2.56	10.0	ND
	Potassium	mg/L	05/18/2012 20:17	1.00	0.0685	0.500	2.50
	Zinc	ug/L	05/18/2012 20:17	1.00	3.89	10.0	ND

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Method Blank

Parameter	Unit	DF	Result
Aluminum	ug/L	1.00	ND
Iron	ug/L	1.00	ND
Nickel	ug/L	1.00	ND
Zinc	ug/L	1.00	ND
Potassium	mg/L	1.00	ND
Magnesium	mg/L	1.00	ND
Boron	ug/L	1.00	ND

Duplicate — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Aluminum	ug/L	1.00	ND	0.00	0	0 - 20
Iron	ug/L	1.00	46.8	46.7	0.214	0 - 20
Nickel	ug/L	1.00	ND	0.00	0	0 - 20
Zinc	ug/L	1.00	ND	0.00	0	0 - 20
Potassium	mg/L	1.00	2.14	2.09	2.22	0 - 20
Magnesium	mg/L	1.00	8.79	8.83	0.477	0 - 20
Boron	ug/L	1.00	ND	160.	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	2230	2000	112.	85 - 115
Iron	ug/L	1.00	2270	2000	113.	85 - 115
Nickel	ug/L	1.00	2070	2000	103.	85 - 115
Zinc	ug/L	1.00	2110	2000	106.	85 - 115
Potassium	mg/L	1.00	2.26	2.00	113.	85 - 115
Magnesium	mg/L	1.00	2.12	2.00	106.	85 - 115
Boron	ug/L	1.00	2060	2000	103.	85 - 115

Matrix Spike — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Aluminum	ug/L	1.00	2220	2000(2000)	111.	75 - 125
Iron	ug/L	1.00	2510	2050(2000)	123.	75 - 125
Nickel	ug/L	1.00	2270	2000(2000)	113.	75 - 125
Zinc	ug/L	1.00	2390	2000(2000)	119.	75 - 125
Potassium	mg/L	1.00	4.56	4.09(2.00)	124.	75 - 125
Magnesium	mg/L	1.00	11.3	10.8(2.00)	122.	75 - 125
Boron	ug/L	1.00	2200	2160(2000)	102.	75 - 125

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Boron	ug/L	1.00	ND	0.00		

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Boron	ug/L	1.00	ND	0.00		

Coliform Group Bacteria, MTF by SM 9221B/E

Batch SM9221B 5/16/12

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Coliforms, Fecal	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
	Coliforms, Total	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
801603-002	Coliforms, Fecal	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
	Coliforms, Total	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
801603-003	Coliforms, Fecal	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
	Coliforms, Total	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
801603-004	Coliforms, Fecal	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND
	Coliforms, Total	MPN/100 mL	05/16/2012 09:30	1.00	1.00	2.00	ND

Coliform Bacteria MPN - SM 9223 B

Batch MPNLert180 5/16/12

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	E. Coli	MPN/100 mL	05/16/2012 09:30	1.00	1.00	1.00	ND
801603-002	E. Coli	MPN/100 mL	05/16/2012 09:30	1.00	1.00	1.00	ND
801603-003	E. Coli	MPN/100 mL	05/16/2012 09:30	1.00	1.00	1.00	ND
801603-004	E. Coli	MPN/100 mL	05/16/2012 09:30	1.00	1.00	1.00	ND

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Metals by EPA 200.8, Total

Batch 052312B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Arsenic	ug/L	05/24/2012 13:22	1.00	0.0530	1.0	ND
	Manganese	ug/L	05/24/2012 13:22	1.00	0.0540	0.50	ND
	Silver	ug/L	05/24/2012 13:22	1.00	0.0250	5.0	ND
801603-002	Arsenic	ug/L	05/24/2012 06:31	5.00	0.265	1.0	14.9
	Manganese	ug/L	05/24/2012 06:31	5.00	0.270	1.0	74.8
	Silver	ug/L	05/24/2012 06:31	5.00	0.125	5.0	ND
801603-003	Arsenic	ug/L	05/24/2012 06:23	5.00	0.265	1.0	1.1
	Manganese	ug/L	05/24/2012 06:23	5.00	0.270	1.0	1.2
	Silver	ug/L	05/24/2012 06:23	5.00	0.125	5.0	ND
801603-004	Arsenic	ug/L	05/24/2012 12:46	1.00	0.0530	1.0	1.3
	Manganese	ug/L	05/24/2012 12:46	1.00	0.0540	0.50	2.0
	Silver	ug/L	05/24/2012 12:46	1.00	0.0250	5.0	ND

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND
Silver	ug/L	1.00	ND
Manganese	ug/L	1.00	ND

Duplicate

Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Arsenic	ug/L	1.00	1.44	1.29	11.2	0 - 20
Silver	ug/L	1.00	ND	0.00	0	0 - 20
Manganese	ug/L	1.00	1.87	1.96	4.54	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.244	0.200	122.	70 - 130
Silver	ug/L	1.00	1.06	1.00	106.	70 - 130
Manganese	ug/L	1.00	0.194	0.200	96.8	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	94.6	100.	94.6	85 - 115
Silver	ug/L	5.00	98.4	100.	98.4	85 - 115
Manganese	ug/L	5.00	97.3	100.	97.3	85 - 115

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Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	88.6	101.(100.)	87.4	75 - 125
Silver	ug/L	1.00	93.7	100.(100.)	93.7	75 - 125
Manganese	ug/L	1.00	102.	102.(100.)	99.9	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	87.3	101.(100.)	86.0	75 - 125
Silver	ug/L	1.00	91.3	100.(100.)	91.3	75 - 125
Manganese	ug/L	1.00	100.	102.(100.)	98.5	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.42	10.0	94.2	90 - 110
Silver	ug/L	1.00	11.4	10.0	114.	90 - 110
Manganese	ug/L	1.00	9.71	10.0	97.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.54	10.0	95.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.71	10.0	97.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.51	10.0	95.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.97	10.0	99.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.77	10.0	97.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.40	10.0	94.0	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.92	10.0	99.2	90 - 110

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Interference Check Standard A

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Manganese	ug/L	1.00	ND	0.00		

Interference Check Standard A

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Manganese	ug/L	1.00	ND	0.00		

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	10.0	10.0	100.	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	10.0	10.0	100.	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silver	ug/L	1.00	10.8	10.0	108.	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silver	ug/L	1.00	10.4	10.0	104.	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Manganese	ug/L	1.00	9.89	10.0	98.9	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Manganese	ug/L	1.00	9.73	10.0	97.3	80 - 120

Serial Dilution — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Manganese	ug/L	25.0	74.3	74.8	0.684	0 - 10

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Printed 6/12/2012 SE 6/12/12
Revised

Metals by EPA 200.8, Total

Batch 052212B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Antimony	ug/L	05/23/2012 12:32	5.00	0.420	5.0	ND
	Barium	ug/L	05/23/2012 12:32	5.00	0.205	10.0	37.0
	Beryllium	ug/L	05/23/2012 12:32	5.00	0.140	1.0	ND
	Cadmium	ug/L	05/23/2012 12:32	5.00	0.135	3.0	ND
	Chromium	ug/L	05/23/2012 12:32	5.00	0.195	1.0	ND
	Cobalt	ug/L	05/23/2012 12:32	5.00	0.270	5.0	ND
	Lead	ug/L	05/23/2012 12:32	5.00	0.265	10.0	ND
	Molybdenum	ug/L	05/23/2012 12:32	5.00	0.150	10.0	ND
	Selenium	ug/L	05/23/2012 12:32	5.00	0.355	10.0	ND
	Thallium	ug/L	05/23/2012 12:32	5.00	0.265	1.0	ND
	Vanadium	ug/L	05/23/2012 12:32	5.00	0.325	5.0	ND
801603-002	Antimony	ug/L	05/23/2012 12:24	5.00	0.420	5.0	ND
	Barium	ug/L	05/23/2012 12:24	5.00	0.205	10.0	122.
	Beryllium	ug/L	05/23/2012 12:24	5.00	0.140	1.0	ND
	Cadmium	ug/L	05/23/2012 12:24	5.00	0.135	3.0	ND
	Chromium	ug/L	05/23/2012 12:24	5.00	0.195	1.0	ND
	Cobalt	ug/L	05/23/2012 12:24	5.00	0.270	5.0	ND
	Lead	ug/L	05/23/2012 12:24	5.00	0.265	10.0	ND
	Molybdenum	ug/L	05/23/2012 12:24	5.00	0.150	10.0	ND
	Selenium	ug/L	05/23/2012 12:24	5.00	0.355	10.0	ND
	Thallium	ug/L	05/23/2012 12:24	5.00	0.265	1.0	ND
	Vanadium	ug/L	05/23/2012 12:24	5.00	0.325	5.0	6.5
801603-003	Antimony	ug/L	05/23/2012 12:17	5.00	0.420	5.0	ND
	Barium	ug/L	05/23/2012 12:17	5.00	0.205	10.0	43.4
	Beryllium	ug/L	05/23/2012 12:17	5.00	0.140	1.0	ND
	Cadmium	ug/L	05/23/2012 12:17	5.00	0.135	3.0	ND
	Chromium	ug/L	05/23/2012 12:17	5.00	0.195	1.0	ND
	Cobalt	ug/L	05/23/2012 12:17	5.00	0.270	5.0	ND
	Lead	ug/L	05/23/2012 12:17	5.00	0.265	10.0	ND
	Molybdenum	ug/L	05/23/2012 12:17	5.00	0.150	10.0	ND
	Selenium	ug/L	05/23/2012 12:17	5.00	0.355	10.0	ND
	Thallium	ug/L	05/23/2012 12:17	5.00	0.265	1.0	ND
	Vanadium	ug/L	05/23/2012 12:17	5.00	0.325	5.0	ND
801603-004	Antimony	ug/L	05/23/2012 11:19	5.00	0.420	5.0	ND

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801603-004	Barium	ug/L	05/23/2012 11:19	5.00	0.205	10.0	46.0
	Beryllium	ug/L	05/23/2012 11:19	5.00	0.140	1.0	ND
	Cadmium	ug/L	05/23/2012 11:19	5.00	0.135	3.0	ND
	Chromium	ug/L	05/23/2012 11:19	5.00	0.195	1.0	1.0
	Cobalt	ug/L	05/23/2012 11:19	5.00	0.270	5.0	ND
	Lead	ug/L	05/23/2012 11:19	5.00	0.265	10.0	ND
	Molybdenum	ug/L	05/23/2012 11:19	5.00	0.150	10.0	ND
	Selenium	ug/L	05/23/2012 11:19	5.00	0.355	10.0	ND
	Thallium	ug/L	05/23/2012 11:19	5.00	0.265	1.0	ND
	Vanadium	ug/L	05/23/2012 11:19	5.00	0.325	5.0	7.5

Method Blank

Parameter	Unit	DF	Result
Barium	ug/L	1.00	ND
Beryllium	ug/L	1.00	ND
Cadmium	ug/L	1.00	ND
Cobalt	ug/L	1.00	ND
Chromium	ug/L	1.00	ND
Selenium	ug/L	1.00	ND
Antimony	ug/L	1.00	ND
Lead	ug/L	1.00	ND
Thallium	ug/L	1.00	ND
Vanadium	ug/L	1.00	ND
Manganese	ug/L	1.00	ND
Molybdenum	ug/L	1.00	ND

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Printed 5/31/2012

Duplicate

Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Barium	ug/L	5.00	46.3	46.0	0.564	0 - 20
Beryllium	ug/L	5.00	ND	0.00	0	0 - 20
Cadmium	ug/L	5.00	ND	0.00	0	0 - 20
Cobalt	ug/L	5.00	ND	0.00	0	0 - 20
Chromium	ug/L	5.00	ND	1.00	0	0 - 20
Selenium	ug/L	5.00	ND	0.00	0	0 - 20
Antimony	ug/L	5.00	ND	0.00	0	0 - 20
Lead	ug/L	5.00	ND	0.00	0	0 - 20
Thallium	ug/L	5.00	ND	0.00	0	0 - 20
Vanadium	ug/L	5.00	7.44	7.50	0.844	0 - 20
Manganese	ug/L	5.00	1.90	1.74	8.79	0 - 20
Molybdenum	ug/L	5.00	3.31	0.00	0	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	0.955	1.00	95.5	70 - 130
Beryllium	ug/L	1.00	0.200	0.200	100.0	70 - 130
Cadmium	ug/L	1.00	0.174	0.200	87.2	70 - 130
Cobalt	ug/L	1.00	01000	1.00	100.0	70 - 130
Chromium	ug/L	1.00	0.219	0.200	109.	70 - 130
Selenium	ug/L	1.00	0.997	1.00	99.7	70 - 130
Antimony	ug/L	1.00	1.00	1.00	100.	70 - 130
Lead	ug/L	1.00	1.02	1.00	102.	70 - 130
Thallium	ug/L	1.00	0.196	0.200	97.8	70 - 130
Vanadium	ug/L	1.00	0.928	1.00	92.8	70 - 130
Manganese	ug/L	1.00	0.183	0.200	91.4	70 - 130
Molybdenum	ug/L	1.00	0.917	1.00	91.7	70 - 130

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Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	5.00	104.	100.	104.	85 - 115
Beryllium	ug/L	5.00	103.	100.	103.	85 - 115
Cadmium	ug/L	5.00	101.	100.	101.	85 - 115
Cobalt	ug/L	5.00	104.	100.	104.	85 - 115
Chromium	ug/L	5.00	106.	100.	106.	85 - 115
Selenium	ug/L	5.00	92.7	100.	92.7	85 - 115
Antimony	ug/L	5.00	105.	100.	105.	85 - 115
Lead	ug/L	1.00	106.	100.	106.	85 - 115
Thallium	ug/L	1.00	102.	100.	102.	85 - 115
Vanadium	ug/L	5.00	105.	100.	105.	85 - 115
Manganese	ug/L	5.00	106.	100.	106.	85 - 115
Molybdenum	ug/L	5.00	105.	100.	105.	85 - 115

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Barium	ug/L	5.00	145.	146(100.)	99.1	75 - 125
Beryllium	ug/L	5.00	97.2	100.(100.)	97.2	75 - 125
Cadmium	ug/L	5.00	94.6	100.(100.)	94.6	75 - 125
Cobalt	ug/L	5.00	95.1	100.(100.)	95.1	75 - 125
Chromium	ug/L	5.00	97.0	101(100.)	96.0	75 - 125
Selenium	ug/L	5.00	86.0	100.(100.)	86.0	75 - 125
Antimony	ug/L	5.00	97.2	100.(100.)	97.2	75 - 125
Lead	ug/L	5.00	96.3	100.(100.)	96.3	75 - 125
Thallium	ug/L	5.00	93.8	100.(100.)	93.8	75 - 125
Vanadium	ug/L	5.00	104.	108.(100.)	97.0	75 - 125
Manganese	ug/L	5.00	98.5	102.(100.)	96.7	75 - 125
Molybdenum	ug/L	5.00	102.	100.(100.)	102.	75 - 125

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Matrix Spike Duplicate

Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Barium	ug/L	5.00	142.	146(100.)	96.2	75 - 125
Beryllium	ug/L	5.00	97.8	100.(100.)	97.8	75 - 125
Cadmium	ug/L	5.00	93.8	100.(100.)	93.8	75 - 125
Cobalt	ug/L	5.00	96.9	100.(100.)	96.9	75 - 125
Chromium	ug/L	5.00	99.6	101(100.)	98.6	75 - 125
Selenium	ug/L	5.00	89.2	100.(100.)	89.2	75 - 125
Antimony	ug/L	5.00	96.2	100.(100.)	96.2	75 - 125
Lead	ug/L	5.00	96.4	100.(100.)	96.4	75 - 125
Thallium	ug/L	5.00	94.4	100.(100.)	94.4	75 - 125
Vanadium	ug/L	5.00	107.	108.(100.)	99.8	75 - 125
Manganese	ug/L	5.00	99.9	102.(100.)	98.2	75 - 125
Molybdenum	ug/L	5.00	104.	100.(100.)	104.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	10.0	10.0	100.	90 - 110
Beryllium	ug/L	1.00	9.70	10.0	97.0	90 - 110
Cadmium	ug/L	1.00	10.0	10.0	100.	90 - 110
Cobalt	ug/L	1.00	9.68	10.0	96.8	90 - 110
Chromium	ug/L	1.00	9.83	10.0	98.3	90 - 110
Selenium	ug/L	1.00	9.64	10.0	96.4	90 - 110
Antimony	ug/L	1.00	9.89	10.0	98.9	90 - 110
Lead	ug/L	1.00	9.89	10.0	98.9	90 - 110
Thallium	ug/L	1.00	9.87	10.0	98.7	90 - 110
Vanadium	ug/L	1.00	9.68	10.0	96.8	90 - 110
Manganese	ug/L	1.00	9.84	10.0	98.4	90 - 110
Molybdenum	ug/L	1.00	10.2	10.0	102.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	9.78	10.0	97.8	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	10.1	10.0	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	9.81	10.0	98.1	90 - 110

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Metals by EPA 200.8, Total

Batch 052712B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Copper	ug/L	05/28/2012 13:18	5.00	0.235	5.0	ND
	Uranium	pCi/L	05/28/2012 13:18	5.00	0.280	1.00	ND
	Uranium	ug/L	05/28/2012 13:18	5.00	0.280	1.0	ND
801603-002	Copper	ug/L	05/28/2012 14:10	5.00	0.235	5.0	ND
	Uranium	ug/L	05/28/2012 14:10	5.00	0.280	1.0	6.1
	Uranium	pCi/L	05/28/2012 14:10	5.00	0.280	1.00	4.11
801603-003	Copper	ug/L	05/28/2012 14:17	5.00	0.235	5.0	ND
	Uranium	ug/L	05/28/2012 14:17	5.00	0.280	1.0	2.4
	Uranium	pCi/L	05/28/2012 14:17	5.00	0.280	1.00	1.64
801603-004	Copper	ug/L	05/28/2012 14:24	5.00	0.235	5.0	ND
	Uranium	ug/L	05/28/2012 14:24	5.00	0.280	1.0	3.2
	Uranium	pCi/L	05/28/2012 14:24	5.00	0.280	1.00	2.14

Method Blank

Parameter	Unit	DF	Result
Copper	ug/L	1.00	ND
Uranium	ug/L	1.00	ND

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	1.00	1.08	1.00	108.	70 - 130
Uranium	ug/L	1.00	0.206	0.200	103.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	5.00	102.	100.	102.	85 - 115
Uranium	ug/L	5.00	98.4	100.	98.4	85 - 115

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Copper	ug/L	5.00	100.	100.(100.)	100.	75 - 125
Uranium	ug/L	5.00	99.9	100.(100.)	99.9	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Copper	ug/L	5.00	98.1	100.(100.)	98.1	75 - 125
Uranium	ug/L	5.00	101	100.(100.)	101	75 - 125

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Metals by EPA 200.8, Total

Batch 052912A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Mercury	ug/L	05/29/2012 15:28	5.00	0.120	1.0	ND
801603-002 Mercury	ug/L	05/29/2012 16:19	5.00	0.120	1.0	ND
801603-003 Mercury	ug/L	05/29/2012 16:26	5.00	0.120	1.0	ND
801603-004 Mercury	ug/L	05/29/2012 16:34	5.00	0.120	1.0	ND

Method Blank

Parameter	Unit	DF	Result
Mercury	ug/L	1.00	ND

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	1.00	0.141	0.200	70.5	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	5.00	18.9	20.0	94.6	85 - 115

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Mercury	ug/L	5.00	17.4	20.0(20.0)	86.8	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Mercury	ug/L	5.00	18.5	20.0(20.0)	92.4	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	1.00	1.97	2.00	98.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	1.00	1.87	2.00	93.6	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	1.00	2.03	2.00	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	1.00	1.97	2.00	98.5	90 - 110

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Reactive Silica by SM4500-Si D

Batch 05Si12C

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Silica	mg/L	05/21/2012	25.0	0.532	1.00	49.9
801603-002 Silica	mg/L	05/21/2012	25.0	0.532	1.00	49.2
801603-003 Silica	mg/L	05/21/2012	25.0	0.532	1.00	38.3
801603-004 Silica	mg/L	05/21/2012	25.0	0.532	1.00	27.4

Method Blank

Parameter	Unit	DF	Result
Silica	mg/L	1.00	ND

Duplicate — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Silica	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silica	mg/L	1.00	0.208	0.220	94.6	90 - 110

Matrix Spike — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Silica	mg/L	1.00	0.393	0.400(0.400)	98.2	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silica	mg/L	1.00	0.0992	0.110	90.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silica	mg/L	1.00	0.418	0.400	104.	90 - 110

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Sulfide by SM 4500-S2 D

Batch 05S12C

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Total Sulfide	mg/L	05/17/2012	1.00	0.00550	2.00	ND
801603-002 Total Sulfide	mg/L	05/17/2012	1.00	0.00550	2.00	ND
801603-003 Total Sulfide	mg/L	05/17/2012	1.00	0.00550	2.00	ND
801603-004 Total Sulfide	mg/L	05/17/2012	1.00	0.00550	2.00	ND

Method Blank

Parameter	Unit	DF	Result
Total Sulfide	mg/L	1.00	ND

Duplicate — Lab ID = 801561-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Sulfide	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.279	0.284	98.2	90 - 110

Matrix Spike — Lab ID = 801561-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.140	0.142(0.142)	98.9	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.142	0.142	99.8	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.139	0.142	98.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.139	0.142	98.2	90 - 110

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pH by SM 4500-H B

Batch 05PH12L

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 pH	pH	05/16/2012 12:45	1.00	0.0593	4.00	7.46
801603-002 pH	pH	05/16/2012 12:47	1.00	0.0593	4.00	7.57
801603-003 pH	pH	05/16/2012 13:00	1.00	0.0593	4.00	7.54
801603-004 pH	pH	05/16/2012 13:02	1.00	0.0593	4.00	7.52

Duplicate — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
pH	pH	1.00	7.58	7.57	0.132	0 - 20

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
pH	pH	1.00	7.55	7.52	0.398	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH	1.00	7.05	7.00	101.	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH	1.00	7.05	7.00	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH	1.00	7.03	7.00	100.	90 - 110

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Total Dissolved Solids by SM 2540 C

Batch 05TDS12G

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Total Dissolved Solids	mg/L	05/18/2012	1.00	0.400	25.0	339
801603-002 Total Dissolved Solids	mg/L	05/18/2012	1.00	0.400	25.0	340.
801603-003 Total Dissolved Solids	mg/L	05/18/2012	1.00	0.400	25.0	293
801603-004 Total Dissolved Solids	mg/L	05/18/2012	1.00	0.400	25.0	252

Method Blank

Parameter	Unit	DF	Result
Total Dissolved Solids	mg/L	1.00	ND

Duplicate — Lab ID = 801604-005

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Dissolved Solids	mg/L	1.00	324	312	3.77	0 - 5

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Dissolved Solids	mg/L	1.00	501	500.	100.	90 - 110

Total Suspended Solids by SM 2540 D

Batch 05TSS12E

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Total Suspended Solids	mg/L	05/16/2012	1.00	0.217	10.0	ND
801603-002 Total Suspended Solids	mg/L	05/16/2012	1.00	0.217	10.0	ND
801603-003 Total Suspended Solids	mg/L	05/16/2012	1.00	0.217	10.0	ND
801603-004 Total Suspended Solids	mg/L	05/16/2012	1.00	0.217	10.0	ND

Method Blank

Parameter	Unit	DF	Result
Total Suspended Solids	mg/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Suspended Solids	mg/L	1.00	ND	0.00	0	0 - 5

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Suspended Solids	mg/L	1.00	101.	100.	101	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Suspended Solids	mg/L	1.00	102.	100.	102	90 - 110

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Total Phosphate, SM 4500-PB,E

Batch 05TP12B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Phosphate, Total As P	mg/L	05/22/2012	1.00	0.00530	0.0200	ND
801603-002 Phosphate, Total As P	mg/L	05/22/2012	1.00	0.00530	0.0200	ND
801603-003 Phosphate, Total As P	mg/L	05/22/2012	1.00	0.00530	0.0200	0.0270
801603-004 Phosphate, Total As P	mg/L	05/22/2012	1.00	0.00530	0.0200	0.0655

Method Blank

Parameter	Unit	DF	Result
Phosphate, Total As P	mg/L	1.00	ND

Duplicate — Lab ID = 801591-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Phosphate, Total As P	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.104	0.100	104.	90 - 110

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0705	0.0650(0.0650)	108.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0624	0.0600	104	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0702	0.0650	108	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0702	0.0650	108	90 - 110

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Ammonia Nitrogen by SM4500-NH3D

Batch 05NH312B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Ammonia as N	mg/L	05/18/2012	1.00	0.00120	0.500	ND
801603-002 Ammonia as N	mg/L	05/18/2012	1.00	0.00120	0.500	ND
801603-003 Ammonia as N	mg/L	05/18/2012	1.00	0.00120	0.500	ND
801603-004 Ammonia as N	mg/L	05/18/2012	1.00	0.00120	0.500	ND

Method Blank

Parameter	Unit	DF	Result
Ammonia as N	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Ammonia as N	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	9.36	10.0	93.6	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	9.23	10.0	92.3	90 - 110

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	6.03	6.08(6.00)	99.2	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	6.61	6.08(6.00)	109.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	6.25	6.00	104.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	5.55	6.00	92.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	5.84	6.00	97.3	90 - 110

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Ortho Phosphate, SM4500-PE

Batch 05OP12A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 o-Phosphate as P	mg/L	05/16/2012 16:03	1.00	0.00322	0.0200	ND
801603-002 o-Phosphate as P	mg/L	05/16/2012 16:04	1.00	0.00322	0.0200	ND
801603-003 o-Phosphate as P	mg/L	05/16/2012 16:05	1.00	0.00322	0.0200	0.0291
801603-004 o-Phosphate as P	mg/L	05/16/2012 16:06	1.00	0.00322	0.0200	0.0615

Method Blank

Parameter	Unit	DF	Result
o-Phosphate as P	mg/L	1.00	ND

Duplicate — Lab ID = 801603-002

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
o-Phosphate as P	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.101	0.100	101.	90 - 110

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0691	0.0650(0.0650)	106.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0612	0.0600	102	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0681	0.0650	105.	90 - 110

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Printed 5/31/2012

Turbidity by SM 2130 B

Batch 05TUC12L

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Turbidity	NTU	05/16/2012	1.00	0.0140	0.100	ND
801603-002 Turbidity	NTU	05/16/2012	1.00	0.0140	0.100	0.248
801603-003 Turbidity	NTU	05/16/2012	1.00	0.0140	0.100	0.126
801603-004 Turbidity	NTU	05/16/2012	1.00	0.0140	0.100	0.113

Method Blank

Parameter	Unit	DF	Result
Turbidity	NTU	1.00	ND

Duplicate

Lab ID = 801606-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Turbidity	NTU	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Turbidity	NTU	1.00	8.46	8.00	106.	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Turbidity	NTU	1.00	8.36	8.00	104.	90 - 110

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Total Cyanide by SM4500-CN E

Batch 05CN12B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 Cyanide, Total	mg/L	05/21/2012	1.00	0.00110	0.0100	ND
801603-002 Cyanide, Total	mg/L	05/21/2012	1.00	0.00110	0.0100	ND
801603-003 Cyanide, Total	mg/L	05/21/2012	1.00	0.00110	0.0100	ND
801603-004 Cyanide, Total	mg/L	05/21/2012	1.00	0.00110	0.0100	ND

Method Blank

Parameter	Unit	DF	Result
Cyanide, Total	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Cyanide, Total	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0743	0.0800	92.9	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0726	0.0800	90.8	90 - 110

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0629	0.0800(0.0800)	78.6	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0816	0.0800	102	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0796	0.0800	99.5	90 - 110

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TKN by SM 4500-Norg B

Batch 05TKN12A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801603-001 TKN-Nitrogen	mg/L	05/16/2012	1.00	0.0508	0.500	1.40
801603-002 TKN-Nitrogen	mg/L	05/16/2012	1.00	0.0508	0.500	0.560
801603-003 TKN-Nitrogen	mg/L	05/16/2012	1.00	0.0508	0.500	0.560
801603-004 TKN-Nitrogen	mg/L	05/16/2012	1.00	0.0508	0.500	10.4

Method Blank

Parameter	Unit	DF	Result
TKN-Nitrogen	mg/L	1.00	ND

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
TKN-Nitrogen	mg/L	1.00	10.2	10.0	102.	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
TKN-Nitrogen	mg/L	1.00	10.1	10.0	101.	90 - 110

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Printed 5/31/2012

Gross Alpha by EPA 900.0

Batch 12A-05-D

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801603-001	Gross Alpha	pCi/L	05/23/2012	1.00	0.630	3.00	ND
	Gross Alpha Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.08
801603-002	Gross Alpha	pCi/L	05/23/2012	1.00	0.630	3.00	8.54
	Gross Alpha Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	2.44
801603-003	Gross Alpha	pCi/L	05/23/2012	1.00	0.630	3.00	ND
	Gross Alpha Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.79
801603-004	Gross Alpha	pCi/L	05/24/2012	1.00	0.630	3.00	ND
	Gross Alpha Counting Error	pCi/L	05/24/2012	1.00	1.00	1.00	1.25

Method Blank

Parameter	Unit	DF	Result
Gross Alpha	pCi/L	1.00	ND
Gross Alpha Counting Error	pCi/L	1.00	0.490

Duplicate — Lab ID = 801279-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Gross Alpha	pCi/L	1.00	4.49	4.46	0.670	0 - 20
Gross Alpha Counting Error	pCi/L	1.00	2.88	2.86	0.697	

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Gross Alpha	pCi/L	1.00	13.6	14.6	92.8	80 - 120
Gross Alpha Counting Error	pCi/L	1.00	2.32	0.00		

Matrix Spike — Lab ID = 801279-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Gross Alpha	pCi/L	1.00	156.	150.(146)	104.	75 - 125
Gross Alpha Counting Error	pCi/L	1.00	13.2	2.86(0.00)		

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi
Manager, Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING
Established 1931
14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
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REPORT

CH2MHill
154 Grand Avenue, Suite 800
Oakland, CA 94612
Attn: Jennifer Low

Report Date: 05/21/12
Date Received: 05/15/12
Laboratory No.: 801603

Project Number: 423405.GW.FW.SW
Project Name: PGE Hinkley
Samples: Four (4) Water Samples

Collection Date: 05/15/12
Analysis Date: 05/16/12 Time: 09:30 Hrs.
Completion Date: 05/18/12 Time: 09:30 Hrs Total Coliform

Investigation: Multiple Tube Fermentation Test for Coliform Group Bacteria APHA Standard Methods for the Examination of Water and Wastewater, 21st Ed., 2005 Method SM 9221B & E, SM 9223B

RESULTS

		Coliform Bacteria Most Probable No./100 ml		
Sample Designation	**Time**	**Total**	**Fecal**	**E.coli**
1. PGE-14-EFF-025-M05b	13:17	<2*	<2*	<1*
2. PGE-14-025-M05b	13:49	<2*	<2*	<1*
3. FWPGEMIX-025-M05b	15:06	<2*	<2*	<1*
4. FW-01-025-M05b	15:51	<2*	<2*	<1*

* None Detected

Respectfully submitted,
Truesdail Laboratories, Inc.

P. Abri

Paymon Abri
Microbiologist

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

EZ SC

Truesdail Laboratories, Inc.

Total Dissolved Solids by SM 2540 C

Calculations

Batch: 05TDS12G
Date Analyzed: 5/22/12

Laboratory Number	Sample volume, ml	Initial weight,g	1st Final weight,g	2nd Final weight,g	Weight Difference, g	Exceeds 0.5mg? Yes/No	Residue weight,g	Filterable residue, ppm	RL , ppm	Reported Value, ppm	DF
Blank	100	110.7304	110.7307	110.7305	0.0002	No	0.0001	1.0	25.0	ND	1
801584-1	100	68.8405	68.8976	68.8976	0.0000	No	0.0571	571.0	25.0	571.0	1
801584-2	100	69.3457	69.403	69.4028	0.0002	No	0.0571	571.0	25.0	571.0	1
801603-1	100	65.9481	65.982	65.982	0.0000	No	0.0339	339.0	25.0	339.0	1
801603-2	100	67.7749	67.8090	67.8089	0.0001	No	0.0340	340.0	25.0	340.0	1
801603-3	100	67.7169	67.7464	67.7462	0.0002	No	0.0293	293.0	25.0	293.0	1
801603-4	100	68.1028	68.128	68.128	0.0000	No	0.0252	252.0	25.0	252.0	1
801604-1	100	68.0327	68.0815	68.0815	0.0000	No	0.0488	488.0	25.0	488.0	1
801604-3	100	67.4834	67.5118	67.5116	0.0002	No	0.0282	282.0	25.0	282.0	1
801604-4	100	74.7342	74.7598	74.7597	0.0001	No	0.0255	255.0	25.0	255.0	1
801604-5	100	67.7871	67.8183	67.8183	0.0000	No	0.0312	312.0	25.0	312.0	1
801604-5D	100	92.0995	92.1319	92.1319	0.0000	No	0.0324	324.0	25.0	324.0	1
LCS	100	110.3321	110.3823	110.3822	0.0001	No	0.0501	501.0	25.0	501.0	1
801604-6	100	100.6770	100.705	100.705	0.0000	No	0.0280	280.0	25.0	280.0	1
801604-7	100	112.9704	112.9987	112.9987	0.0000	No	0.0283	283.0	25.0	283.0	1
801604-8	100	110.3667	110.4185	110.4182	0.0003	No	0.0515	515.0	25.0	515.0	1
801606	10	47.9638	48.0045	48.0045	0.0000	No	0.0407	4070.0	250.0	4070.0	1
801652-1	50	47.9544	48.0101	48.01	0.0001	No	0.0556	1112.0	50.0	1112.0	1
801652-2	50	46.9976	47.0426	47.0424	0.0002	No	0.0448	896.0	50.0	896.0	1
801652-3	50	51.0745	51.1046	51.1043	0.0003	No	0.0298	596.0	50.0	596.0	1
801652-5	100	115.2361	115.2962	115.2959	0.0003	No	0.0598	598.0	25.0	598.0	1
801652-6	100	103.4165	103.4663	103.4663	0.0000	No	0.0498	498.0	25.0	498.0	1
801653	100	104.2370	104.2648	104.2648	0.0000	No	0.0278	278.0	25.0	278.0	1

Calculation as follows:

Filterable residue (TDS), mg/L = $\left(\frac{A-B}{C}\right) x\ 10^6$

Where:

A = weight of dish + residue in grams.
B = weight of dish in grams.
C = mL of sample filtered.

RL= reporting limit.
ND = not detected (below the reporting limit)

Laboratory Control Sample (LCS) Summary

QC Std I.D.	Measurd Value, ppm	Theoretical Value, ppm	Percent Rec	Acceptance Limit	QC Within Control?
LCS1	501	500	100.2%	90-110%	Yes
LCSD					

LCS Recovery

$P = \left(\frac{LC}{LT}\right) x\ 100$

P = Percent recovery.
LC = Measured LCS value (ppm).
LT = Theoretical LCS value (ppm).

Duplicate Determinations Difference Summary

Lab Number	Sample Weight, g	Sample Dup Weight, g	% RPD	Acceptance Limit	QC Within Control?
801604-5	0.0312	0.0324	1.9%	≤5%	Yes

Duplicate Determination Difference

$$\%\ Difference = \frac{|A \text{ or } B - C|}{C} x\ 100$$

$$where \quad C = \frac{A+B}{2}$$

A = Weght of the first sample in (g).
B = Weght of the second sample in (g).
C = Average weight in (g).

Jenny T.
Analyst Printed Name

Analyst Signature

Hope T.
Reviewer Printed Name

Reviewer Signature

WetChem TDS_2012.xls

Total Dissolved Solids by SM 2540 C

TDS/EC CHECK

Batch: 05TDS12G
Date Analyzed: 5/22/12

Laboratory Number	EC	TDS/EC Ratio: 0.55-.9	Calculated TDS (EC*0.65)	Measured TDS / Calc TDS <1.3
801584-1	926	0.62	601.9	0.95
801584-2	938	0.61	609.7	0.94
801603-1	521	0.65	338.65	1.00
801603-2	521	0.65	338.65	1.00
801603-3	467	0.63	303.55	0.97
801603-4	416	0.61	270.4	0.93
801604-1	821	0.59	533.65	0.91
801604-3	477	0.59	310.05	0.91
801604-4	477	0.53	310.05	0.82
801604-5	530	0.59	344.5	0.91
801604-5D	530	0.61	344.5	0.94
LCS				
801604-6	421	0.67	273.65	1.02
801604-7	420	0.67	273	1.04
801604-8	795	0.65	516.75	1.00
801606	7320	0.56	4758	0.86
801652-1	1664	0.67	1081.6	1.03
801652-2	1553	0.58	1009.45	0.89
801652-3	1006	0.59	653.9	0.91
801652-5	976	0.61	634.4	0.94
801652-6	820	0.61	533	0.93
801653	432	0.64	280.8	0.99

TRUESDAIL LABORATORIES INC.

Total Suspended Solids by SM 2540 D

Calculations

Batch: 05TSS12E
Date Analyzed: 05/16/12

Dish Number	Laboratory Number	Sample volume, ml	Initial weight,g	1st Final weight,g	2nd Final weight,g	Weight Difference , g	Exceeds 0.5mg? Yes/No	Residue weight,g	Filterable residue, ppm	RL , ppm	Reported Value, ppm
C49	BLANK	1000	1.3939	1.3939	1.3939	0.0000	No	0.0000	0.0	2.5	ND
C51	801470	300	1.3896	1.4683	1.4683	0.0000	No	0.0787	262.3	8.3	262.3
C52	801474	200	1.3974	1.4176	1.4176	0.0000	No	0.0202	101.0	12.5	101.0
C53	801494	200	1.3945	1.5250	1.525	0.0000	No	0.1305	652.5	12.5	652.5
C54	801495	1000	1.4011	1.4117	1.4117	0.0000	No	0.0106	10.6	2.5	10.6
C55	801507	300	1.3999	1.4170	1.417	0.0000	No	0.0171	57.0	8.3	57.0
C56	801510	1000	1.4009	1.4109	1.4109	0.0000	No	0.0100	10.0	2.5	10.0
C57	801513	1000	1.4009	1.4084	1.4084	0.0000	No	0.0075	7.5	2.5	7.5
C58	801524	300	1.3975	1.4178	1.4178	0.0000	No	0.0203	67.7	8.3	67.7
C59	801541	300	1.4056	1.5114	1.5114	0.0000	No	0.1058	352.7	8.3	352.7
C60	801541D	300	1.3951	1.5011	1.5011	0.0000	No	0.1060	353.3	8.3	353.3
C61	801553	500	1.4018	1.4141	1.4141	0.0000	No	0.0123	24.6	5.0	24.6
C62	801603-1	1000	1.3988	1.3988	1.3988	0.0000	No	0.0000	0.0	2.5	ND
C63	-2	1000	1.4079	1.4079	1.4079	0.0000	No	0.0000	0.0	2.5	ND
C64	-3	1000	1.4105	1.4105	1.4105	0.0000	No	0.0000	0.0	2.5	ND
C65	801603-4	1000	1.4053	1.4053	1.4053	0.0000	No	0.0000	0.0	2.5	ND
C66	801603-4D	1000	1.3983	1.3983	1.3983	0.0000	No	0.0000	0.0	2.5	ND
C50	LCS-1	100	1.3911	1.4012	1.4012	0.0000	No	0.0101	101.0	25.0	101.0
C67	LCS-2	100	1.3942	1.4044	1.4044	0.0000	No	0.0102	102.0	25.0	102.0

Calculation as follows:

Non- Filterable residue (TSS), mg/L = $\left(\frac{A-B}{C}\right) x\ 1\ 0^6$

Where: **A** = weight of dish + residue in grams.
B = weight of dish in grams.
C = mL of sample filtered.

RL= reporting limit.
ND = not detected (below the reporting limit)

Laboratory Control Sample (LCS) Summary

QC Std I.D.	Measurd Value, ppm	Theoretical Value, ppm	Percent Rec	Acceptance Limit	QC Within Control?
LCS1	101	100	101.0%	90-110%	Yes
LCSD	102	100	102.0%	90-110%	Yes

Duplicate Determinations Difference Summary

Lab Number	Sample Weight, g	Sample Dup Weight, g	% RPD	Acceptance Limit	QC Within Control?
801541	0.1058	0.106	0.1%	≤5%	Yes
801603-4	0	0	#DIV/0!	5%	#DIV/0!

LCS Recovery

$$P = \left(\frac{LC}{LT}\right) x\ 100$$

$$\%\ Difference = \frac{|A\ or\ B - C|}{C}\ x\ 100$$

$$where \quad C = \frac{A+B}{2}$$

A = Weght of the first sample in (g).
B = Weght of the second sample in (g).
C = Average weight in (g).

Gautam S.
Analyst Printed Name

Analyst Signature

Hope T.
Reviewer Printed Name

Reviewer Signature

WETCHEM CHL RESIDUAL_09A
TSS_2011

TRUESDAIL LABORATORIES, INC.

Alkalinity by SM 2320B

Calculations

3

E2 3cm

Analytical Batch: 05ALK12F
Matrix: Water
Date of Analysis: 5/17/12

Lab ID	Sample pH	Sample Volume (ml)	N of HCL	Titrant Volume to reach pH 8.3	P Alkalinity as CaCO3	Titrant Volume to reach pH 4.5	Total mL titrant to reach pH 0.3 unit lower	Total Alkalinity as CaCO3	RL, ppm	Total Alkalinity Reported Value	HCO3 Conc. as $CaCO_3$ (ppm)	CO3 Alkalinity as $CaCO_3$ (ppm)	OH Alkalinity as $CaCO_3$ (ppm)	Low Alkalinity as $CaCO_3$ (<20ppm)
BLANK	5.10	50	0.02		0.0	0.00		0.0	5	ND	ND	ND	ND	
801559-22	7.96	50	0.02		0.0	4.50		90.0	5	90.0	90.0	ND	ND	
801582	8.17	50	0.02		0.0	4.95		99.0	5	99.0	99.0	ND	ND	
801603-1	7.98	50	0.02		0.0	5.95		119.0	5	119.0	119.0	ND	ND	
801603-2	7.85	50	0.02		0.0	6.20		124.0	5	124.0	124.0	ND	ND	
801603-3	7.80	50	0.02		0.0	5.75		115.0	5	115.0	115.0	ND	ND	
801603-4	7.73	50	0.02		0.0	5.50		110.0	5	110.0	110.0	ND	ND	
801603-4 DUP	7.70	50	0.02		0.0	5.55		111.0	5	111.0	111.0	ND	ND	
801603-4 MS	9.62	50	0.02	2.3	45.0	10.00		200.0	5	200.0	110.0	90	ND	
801603-4 MSD	9.61	50	0.02	2.3	45.0	10.05		201.0	5	201.0	111.0	90	ND	
LCS	10.57	50	0.02	2.0	40.0	5.00		100.0	5	100.0	20.0	80	ND	
LCSD	10.59	50	0.02	2.1	42.0	4.90		98.0	5	98.0	14.0	84	ND	

Calculations as follows:

T or P = $\left(\frac{A \times N \times 50000}{mL\ sample}\right)$

Where:
T = Total Alkalinity, mg CaCO3/L
P = Phenolphthalein Alkalinity, mg CaCO3/L
A = mL standard acid used
N = normality of standard acid

Low Alkalinity: as mg/L CaCO3 = $\frac{(2 \times B - C) \times N \times 50000}{mL\ sample}$

Where:
B = mL titrant to first recorded pH
C = Total mL titrant to reach pH 0.3 unit lower
N = Normality of standard acid

LCS = Laboratory Control Standard/Duplicate
MS/MSD = Matrix Spike/Duplicate
ND = Not Detected (below the reporting limit)

Blank Summary

Reporting Limit, RL	Measured Value, ppm	Accept Limit	QC Within Control?
5 ppm	0	<5	Yes

Laboratory Control Sample (LCS/LCSD) Summary

QC Std I.D.	Measured Value, ppm	Theoretical Value, ppm	%Recovery	Accetance Limit	QC Within Control?
LCS	100	100	100.0%	90-110	Yes
LCSD	98	100	98.0%	90-110	Yes

Duplicate Determination Difference Summary

Lab Number I.D.	Measured Value, ppm	Dup Value, ppm	RPD	Accetance Limit	QC Within Control?
801603-4	110	111	0.9%	≤20%	Yes

Sample Matrix Spike (MS/MSD) Summary

Lab Number	Conc of Unspk spl	Dil Factor	Added Spk Conc	MS/MSD Amt	Measrd Conc of Spk Spl	Theor Conc of Spk Spl	MS/MSD %Rec	MS Accept Limit	QC Within Control?	RPD	RPD Accept Limit	QC Within Control?
801373-3 MS	110	1	100	100	200	210.00	90%	75-125	Yes	0.2%	≤20%	Yes
	110	1	100	100	201	210.00	91%		Yes			

Melissa S.
Analyst Printed Name

Analyst Signature

Hope T.
Reviewer Printed Name

Reviewer Signature

051712f

F2 SC

TRUESDAIL LABORATORIES, INC.

Total Kjeldahl Nitrogen (TKN) by SM 4500-N_{ORG} B

Calculations/Quality Control Data

Date of Analysis: 05/16/12

Analytical Batch: 05TKN12A

Sample Analysis Data

Lab ID	Sample Vol, ml	Titrated Vol, ml	N Acid	Results, TKN, ppm	Reported Value, TKN, ppm	Reporting Limit
Method Blk	500	0.00	0.02	0	ND	<0.5
801603-1	500	2.50	0.02	1.401	1.401	0.50
801603-2	500	1.00	0.02	0.560	0.560	0.50
801603-3	500	1.00	0.02	0.560	0.560	0.50
801603-4	500	18.50	0.02	10.365	10.365	0.50
LCS	500	18.25	0.02	10.225	10.225	0.50
LCSD	500	18.00	0.02	10.085	10.085	0.50
DUP						
MS						
MSD						

Quality Control Data

		Acceptable limit <0.8%	Qc Within control Y/N	Reporting Limit	
		<0.5	YES	0.5 ppm	

Theo. Conc. (pm)	Percent Recovery	Acceptable limit 90-110%	Qc Within control Y/N	Relative % Diff.	Acc. Limit 20%	QC Within Control Y/N
10	102%	90-110%	YES	1%	<20%	YES
10	101%		YES			

Sample Conc.	Relative % Diff.	Acceptable Limit	QC Within Control Y/N
		<20%	

$$\text{TKN (mg/L)} = \frac{\text{ml titrant} \times 1000 \times 14.007 \times \text{Normality of Titrant}}{\text{vol of sample}}$$

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS/MSD Amount	Measured Conc. of spiked sample	Theoret. Conc. of spiked sample	MS/MSD% Recovery	Accept. Limits	QC in Control	Relative Percent Difference	Accept. Limits	QC Within Control
MS			1	10.0									
MSD				10.0									

PT0308

Luck Lucre — Analyst Printed Name

Luck — Analyst Signature

Hope — Reviewer Printed Name

HT — Reviewer Signature

Tkn_0825/21/12, by HT

Spike Calculations

Lab#	**801279-1**
Batch ID	**12A-05-D**
Spike ID	**U9V**

Volume spike solution (ml)	2
Spike concentration (pCi/ml)	14.60
Volume sample spiked (ml)	200
Sample result (pCi/L)	4.46
Matrix spike result (pCi/L)	155.85

2 ml s	14.6 pCi/ml	14.6 pCi/ml *	2.0	ml	29.2 pCi
sample valu	4.46 pCi/L	4.46 pCi/L *	0.200 L =		0.89 pCi
spike value	155.85 pCi/L	155.85 pCi/L *	0.200 L =		31.17 pCi

recovery = (spike value - sample value)/spike amount

$$=\left(\frac{31.17 \quad -0.89}{29.20}\right) \qquad = \boxed{103.7}$$

RT 5/24/12

NE 5/24/12

Spike Calculations

Lab#	**801284-1**
Batch ID	**12B-05-C**
Spike ID	**CS-2Y**

Volume spike solution (ml)	2
Spike concentration (pCi/ml)	19.32
Volume sample spiked (ml)	250
Sample result (pCi/L)	2.70
Matrix spike result (pCi/L)	159.14

2 ml s	19.32 pCi/ml	19.3 pCi/ml *	2.0	ml	38.6 pCi
sample valu	2.70 pCi/L	2.7 pCi/L *	0.250 L =		0.68 pCi
spike value	159.14 pCi/L	159.14 pCi/L *	0.250 L =		39.79 pCi

recovery = (spike value - sample value)/spike amount

$$=\left(\frac{39.79 \quad -0.68}{38.64}\right) \qquad = \boxed{101.2}$$

BS 5/24/12
NR 5/23/12

ALERT !!
Level III QC

801603

CH2MHILL

CHAIN OF CUSTODY RECORD

Page 1 OF 1

Project Name: PGE Hinkley
Location: Hinkley
Project Number: 423405.GW.FW.SW
Project Manager: Jennifer Low
Sample Manager: Jim Hanvey
Cell Number: (404) 229-2181
Fax Number: (510) 622-9136
Task Order
Project: 2012-GMP-025-M05B
Turnaround Time: 1 Days
Shipping Date:
COC Number:

Container	250 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000 ml Poly	1000 ml Poly	500 ml Poly	1000 ml Poly	2x100ml Plastic	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly
Preservatives	(NH4)2SO4, NH4OH, 4°C	HNO3, 4°C	HNO3, 4°C	HNO3, 4°C	HNO3, 4°C	HNO3, 4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C	H2SO4, pH<2, 4°C	H2SO4, pH<2, 4°C	NAOH/Zn Acetate, 4°C	H2SO4, 4°C	Sterile	NAOH	HNO3	HNO3	HNO3, 4°C
Filtered	Field	Field	Field	NA	NA	NA	NA	NA	NA	Field	NA	NA	NA	Field	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Holding Time (days)	28	180	180	180	180	180	2	2	7	2	2	2	2	7	2	2	28	28	7	2	6 hours	14	180	180	180
Analysis	Cr(VI) (E218.6) FF	Metals Dissolved (6010BDis) FF Ag,Al,B,Ca,Fe,K,Mg,Mn,Na	Metals Dissolved (6020ADis) FF As,Ba,Cr,Mn,Mo,Ni,V,Zn	Metals (E245.1) Hg	Metals (E200.7) Ag,Al,B,Be,Ca,Co,Cu,Fe,K,Mg,Mn,Na	Metals (E200.8) As,Ba,Cd,Cr,Pb,Mn,Mo,Ni,Se,Sb,Tl,V,Zn	Anions (E300.0) Nitrate as N,Sulfate,Chloride,Bromide,Fluoride	Nitrite (4500-NO2) Nitrite as N	Alkalinity (SM2320B)	Ortho-Phosphate (4500-PE) FF	Conductivity (E120.1)	TSS (E2540D)	TDS (SM2540C)	Soluble Silica (4500Si-D) FF	Turbidity (E180.1)	PH (SM4500HB)	Ammonia(E4500-NH3)	Total Kjeldahl Nitrogen (E4500-Norg)	Sulfide (SM4500 S2)	Total Phosphorous (4500-PE)	Total Coliform (SM9221B/E) Total Coliforms,Fecal,E Coli	Cyanide (E4500-CN)	Gross Alpha (SM7110B)	Gross Beta (E900)	Uranium (E900.8)

SAMPLE ID	DATE	TIME	Matrix	Cr(VI)	Metals Dissolved (6010BDis)	Metals Dissolved (6020ADis)	Metals (E245.1)	Metals (E200.7)	Metals (E200.8)	Anions (E300.0)	Nitrite (4500-NO2)	Alkalinity	Ortho-Phosphate	Conductivity	TSS	TDS	Soluble Silica	Turbidity	PH	Ammonia	Total Kjeldahl Nitrogen	Sulfide	Total Phosphorous	Total Coliform	Cyanide	Gross Alpha	Gross Beta	Uranium
-1 PGE-14-EFF-025-M05b	05-15-12	1347	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-2 PGE-14-025-M05b	05-15-12	1349	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-3 FWPGEMIX-025-M05b	05-15-12	1506	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-4 FW-01-025-M05b	05-15-12	1551	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

RUSH

Signatures	Date/Time	
Approved by	5-15-12	1650
Sampled by	Keith Chapman 05-15-12	
Relinquished by	05-15-12	1655
Received by	05/15/12	1795
Relinquished by	05/15/12	
Received by	5/15/12	20:30

Shipping Details
Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: Truesdail Laboratories Inc
Lab Phone: (714) 730-6239

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding, CA 96001

For Sample Conditions
See Form Attached

246

Hexavalent Chromium

Method EPA 218.6 and SW 7199 Sample pH Log

Date	Lab Number	Initial pH	Buffer Added (mL)	Final pH	Time Buffered	Initials
5/16/12	801605-3	9.5	N/A	N/A	N/A	GW
	-4					
	-10					
5/16/12	801603-1	9.5	N/A	N/A	N/A	GW
	-2					
	-3					
	-4					
5/16/12	801604-1	9.5	N/A	N/A	N/A	GW
	-2					
	-3					
	-4					
	-5					
	-6					
	-7					
5/16/12	-8					
5/16/12	801606	7	2 mL	9.5	11 Am	GW

MW 5/17/12

Turbidity/pH Check

Sample Number	Turbidity	pH	Date	Analyst	Need Digest	Adjusted to pH<2 (Y/N)
80 1497	<1	<2	5-10-12	BE	YES	3010A
80 1488		>2			NO	YES 10:15
80 1500	>1	<2			YES	3010A
80 1503 (1-10)	<1	<2			NO	NO
80 1504 (1-10)						
80 1505 (1-10)						
80 1506 (1-143)						
80 1508	<1	<2	5-11-12	BE	NO	NO
80 1513	>1				YES	3010A
80 1525	<1					
80 1527 (1-151)					NO	NO
80 1536 (1-21)	<1	<2	5-14-12	BE	NO	NO
80 1537 (1-21)						
80 1517						
80 1526 (3-12)					YES	3010A
80 1543	<1	<2			NO	NO
80 1546 (1-4					YES	3010A
80 1547						
80 1548 (1-3)		>2				YES 15:00
80 1554		<2			NO	NO
80 1555						
80 1581 (1-2, 4)	<1	>2	5-15-12	BE	NO	YES 14:00
80 1582		>2				14:00
80 1578	>1	<2			YES	3010A
80 1580 (1-37)	<1	>2			NO	YES 20:00
80 1581 (1-104)		<2			NO	NO
T 80 1603 (1-4)	<1	<2	5-16-12	BE	YES	3010A
D 80 1603 (1-4)						
80 1605 (1-11						
80 1604 (193-8)						
T 80 1606		>2				
80 1591		<2			NO	NO
80 1643	<1	<2	5-17-12	BE	NO	NO
80 1652 (1-3, 5-6)	<1				YES	3010A
80 1653 (T, D)						
80 1641 (11-13)					NO	NO
80 1646 (1-33)		>2				YES 18:30
80 1647 (1-15						
80 1647 (1-54)						19:00
80 1649 (1-54)						
80 1669 (1-9)						
80 1675 (1-182)						NO
80 1676 (1-10)						
80 1677 (1-10)						

TRUESDAIL LABORATORIES, INC.

Sample Integrity & Analysis Discrepancy Form

Client: E2 **Lab #** 801603

Date Delivered: 05/15/12 **Time:** 20:30 **By:** ☐ **Mail** ☒ **Field Service** ☐ **Client**

1. Was a Chain of Custody received and signed? ☒ Yes ☐ No ☐ N/A
2. Does Customer require an acknowledgement of the COC? ☐ Yes ☐ No ☒ N/A
3. Are there any special requirements or notes on the COC? ☐ Yes ☐ No ☒ N/A
4. If a letter was sent with the COC, does it match the COC? ☐ Yes ☐ No ☒ N/A
5. Were all requested analyses understood and acceptable? ☒ Yes ☐ No ☐ N/A
6. Were samples received in a chilled condition? ☒ Yes ☐ No ☐ N/A
   Temperature (if yes)? 3.7°C
7. Were samples received intact (i.e. broken bottles, leaks, air bubbles, etc.)? ☒ Yes ☐ No ☐ N/A
8. Were sample custody seals intact? ☐ Yes ☐ No ☒ N/A
9. Does the number of samples received agree with COC? ☒ Yes ☐ No ☐ N/A
10. Did sample labels correspond with the client ID's? ☒ Yes ☐ No ☐ N/A
11. Did sample labels indicate proper preservation? ☒ Yes ☐ No ☐ N/A
    Preserved (if yes) by: ☒ **Truesdail** ☒ Client
12. Were samples pH checked? pH = See C.O.C. ☒ Yes ☐ No ☐ N/A
13. Were all analyses within holding time at time of receipt? ☒ Yes ☐ No ☐ N/A
    If not, notify Project Manager.
14. Have Project due dates been checked and accepted? ☒ Yes ☐ No ☐ N/A
    Turn Around Time (TAT): ☒ **RUSH** ☐ Std
15. **Sample Matrix:** ☐ Liquid ☐ Drinking Water ☒ Ground Water ☐ Waste Water
    ☐ Sludge ☐ Soil ☐ Wipe ☐ Paint ☐ Solid ☐ Other_____
16. Comments: _____
17. Sample Check-In completed by **Truesdail** Log-In/Receiving: L. Shabunina

ALERT !! Level III QC

C:\Users\Test\Desktop\Forms A - D\Discrp.FormBlank.doc

TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

June 12, 2012

CH2M HILL

Ms. Jennifer Low
155 Grand Ave., Suite 800
Oakland, California 94612

Dear Ms. Low:

SUBJECT: REVISED CASE NARRATIVE PG&E HINKLEY PROJECT, 2012-GMP-025-M05B;

TLI NO.: 801653

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Hinkley 2012-GMP-025-M05B Project. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, wet chemistry raw data, quality control data and chain of custody forms are included in Sections 3 and 4. Established Retention Time Window and analytical raw data are included under Section 5.

The samples were received and delivered with the chain of custody on May 16, 2012, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter they will either be disposed or kept in warm storage for an additional 2 months.

The recovery for the Mid-range Calibration Check Standard in batch 051912A for Total Aluminum by EPA 200.7 exceeded the acceptance limits of 95% - 105%. Because the sample results were below the reporting limit and all other QA/QC were within acceptable limits, the data was accepted.

The recovery for the Mid-range Calibration Check Standard in batch 052312B for Total and Total Dissolved Silver by EPA 200.8 and SW 6020A exceeded the acceptance limits. Because the sample results were below the reporting limit and all other QA/QC were within acceptable limits, the data was accepted.

Total Uranium was requested by EPA 900.8 on the chain-of-custody. Per Mr. Duffy's request, the samples were analyzed by EPA 200.8.

E. coli was analyzed by SM 9223B.

The sample for Total Mercury was analyzed by EPA 200.8 at a dilution of 5x, with a result of ND<1.0 ug/L (CRDL=0.20 ug/L).

On June 12, 2012, Mr. Doug Scott of CH2M Hill requested that Total Antimony by EPA 200.8 be reported to 5.0 ug/L rather than the contract required detection limit of 10.0 ug/L. The QA/QC supported the lower reporting limit and the report was revised as requested.

June 12, 2012

No other violations or nonconformance actions occurred for this data package. If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi,
Manager Analytical Services

Michael Ngo
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.
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Established 1931

14201 FRANKLIN AVENUE · TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

Client: CH2M HILL
155 Grand Ave. Suite 800
Oakland, CA 94612
Attention: Jennifer Low

Project Name: PG&E Hinkley Project
Project No.: 423405.GW.FW.SW
P.O. No.: 423405.GW.FW.SW

Laboratory No.: 801653
Date Received: May 16, 2012
Revision 1; June 12, 2012

Analytical Results Summary

Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801653-001	FW-02-025-M05b	E120.1	NONE	5/16/2012	14:06	EC	431	umhos/cm	2.00
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Aluminum	ND	ug/L	50.0
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	BORON	ND	ug/L	200
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Calcium	34.9	mg/L	10.0
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Iron	ND	ug/L	20.0
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Magnesium	6.32	mg/L	0.500
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Nickel	ND	ug/L	10.0
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Potassium	3.76	mg/L	0.500
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Sodium	42.0	mg/L	10.0
801653-001	FW-02-025-M05b	E200.7	NONE	5/16/2012	14:06	Zinc	14.2	ug/L	10.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Antimony	ND	ug/L	5.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Arsenic	1.2	ug/L	1.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Barium	54.7	ug/L	10.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Beryllium	ND	ug/L	1.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Cadmium	ND	ug/L	3.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Chromium	ND	ug/L	1.00
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Cobalt	ND	ug/L	5.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Copper	ND	ug/L	5.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Lead	ND	ug/L	10.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Manganese	ND	ug/L	0.50
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Mercury	ND	ug/L	1.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Molybdenum	ND	ug/L	10.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Selenium	ND	ug/L	10.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Silver	ND	ug/L	5.0

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Thallium	ND	ug/L	1.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Uranium, Total	4.6	ug/L	1.0
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Uranium, Total	3.08	pCi/L	1.00
801653-001	FW-02-025-M05b	E200.8	NONE	5/16/2012	14:06	Vanadium	5.4	ug/L	5.0
801653-001	FW-02-025-M05b	E218.6	FLDFLT	5/16/2012	14:06	Chromium, hexavalent	0.97	ug/L	0.20
801653-001	FW-02-025-M05b	E300	NONE	5/16/2012	14:06	Bromide	ND	mg/L	0.500
801653-001	FW-02-025-M05b	E300	NONE	5/16/2012	14:06	Chloride	30.1	mg/L	2.00
801653-001	FW-02-025-M05b	E300	NONE	5/16/2012	14:06	Fluoride	0.624	mg/L	0.500
801653-001	FW-02-025-M05b	E300	NONE	5/16/2012	14:06	Nitrate as N	1.10	mg/L	0.500
801653-001	FW-02-025-M05b	E300	NONE	5/16/2012	14:06	Sulfate	42.0	mg/L	5.00
801653-001	FW-02-025-M05b	EPA 900.0	NONE	5/16/2012	14:06	Gross Alpha	3.92	pCi/L	3.00
801653-001	FW-02-025-M05b	EPA 900.0	NONE	5/16/2012	14:06	GROSS BETA	ND	pCi/L	4.00
801653-001	FW-02-025-M05b	SM 9223B	NONE	5/16/2012	14:06	E. Coli	ND	MPN/100 mL	1
801653-001	FW-02-025-M05b	SM2130B	NONE	5/16/2012	14:06	Turbidity	ND	NTU	0.100
801653-001	FW-02-025-M05b	SM2320B	NONE	5/16/2012	14:06	Alkalinity	110	mg/L	5.00
801653-001	FW-02-025-M05b	SM2320B	NONE	5/16/2012	14:06	Bicarbonate	110	mg/L	5.00
801653-001	FW-02-025-M05b	SM2320B	NONE	5/16/2012	14:06	Carbonate	ND	mg/L	5.00
801653-001	FW-02-025-M05b	SM2540C	NONE	5/16/2012	14:06	Total Dissolved Solids	278	mg/L	25.0
801653-001	FW-02-025-M05b	SM2540D	NONE	5/16/2012	14:06	Total Suspended Solids	ND	mg/L	10.0
801653-001	FW-02-025-M05b	SM4500CN	NONE	5/16/2012	14:06	Cyanide	ND	mg/L	0.0100
801653-001	FW-02-025-M05b	SM4500HB	NONE	5/16/2012	14:06	PH	7.51	pH	4.00
801653-001	FW-02-025-M05b	SM4500NH3D	NONE	5/16/2012	14:06	Ammonia-N	ND	mg/L	0.500
801653-001	FW-02-025-M05b	SM4500NO2B	NONE	5/16/2012	14:06	Nitrite as N	ND	mg/L	0.0050
801653-001	FW-02-025-M05b	SM4500-NOrgE	NONE	5/16/2012	14:06	Total Kjeldahl Nitrogen	ND	mg/L	0.500
801653-001	FW-02-025-M05b	SM4500-PB_E	NONE	5/16/2012	14:06	Total Phosphorous-P	0.0506	mg/L	0.0200
801653-001	FW-02-025-M05b	SM4500-PE	FLDFLT	5/16/2012	14:06	Ortho Phosphate as P	0.0435	mg/L	0.0200
801653-001	FW-02-025-M05b	SM4500-SD	NONE	5/16/2012	14:06	Total Sulfide	ND	mg/L	2.00
801653-001	FW-02-025-M05b	SM4500SI	FLDFLT	5/16/2012	14:06	Reactive Silica	36.0	mg/L	1.00
801653-001	FW-02-025-M05b	SM9221E	NONE	5/16/2012	14:06	Coliform, Fecal	ND	MPN/100 mL	2
801653-001	FW-02-025-M05b	SM9221B	NONE	5/16/2012	14:06	Coliform, Total	ND	MPN/100 mL	2

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Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Aluminum	ND	ug/L	50.0
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	BORON	ND	ug/L	200
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Calcium	34.8	mg/L	10.0
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Iron	ND	ug/L	20.0
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Magnesium	6.23	mg/L	0.500
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Nickel	ND	ug/L	10.0
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Potassium	3.74	mg/L	0.500
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Sodium	40.0	mg/L	10.0
801653-001	FW-02-025-M05b	SW6010B	FLDFLT	5/16/2012	14:06	Zinc	15.6	ug/L	10.0
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Arsenic	1.1	ug/L	1.0
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Barium	54.0	ug/L	10.0
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Chromium	1.4	ug/L	1.0
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Manganese	ND	ug/L	0.50
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Molybdenum	ND	ug/L	10.0
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Silver	ND	ug/L	5.0
801653-001	FW-02-025-M05b	SW6020	FLDFLT	5/16/2012	14:06	Vanadium	5.2	ug/L	5.0

ND: Non Detected (below reporting limit)

mg/L: Milligrams per liter.

Note: The following "Significant Figures" rule has been applied to all results:
Results below 0.01ppm will have two (2) significant figures.
Result above or equal to 0.01ppm will have three (3) significant figures.
Quality Control data will always have three (3) significant figures.

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REPORT

Client: **CH2MHill**
155 Grand Avenue, Suite 800
Oakland, CA 94612
Attention: Jennifer Low
Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW
P.O. Number: 423405.GW.FW.SW
Release Number:

Laboratory No. 801653

Printed 6/1/2012

Samples Received on 5/16/2012 7:15:00 PM

Field ID	Lab ID	Collected	Matrix
FW-02-025-M05b	801653-001	05/16/2012 14:06	Water

Anions By I.C. - EPA 300.0

Batch 05AN12O

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Bromide	mg/L	05/17/2012 12:16	1.00	0.0110	0.500	ND
	Chloride	mg/L	05/17/2012 14:09	10.0	0.360	2.00	30.1
	Fluoride	mg/L	05/17/2012 12:16	1.00	0.0310	0.500	0.624
	Nitrate as Nitrogen	mg/L	05/17/2012 12:16	1.00	0.0270	0.500	1.10
	Sulfate	mg/L	05/17/2012 14:09	10.0	1.14	5.00	42.0

Method Blank

Parameter	Unit	DF	Result
Bromide	mg/L	1.00	ND
Chloride	mg/L	1.00	ND
Fluoride	mg/L	1.00	ND
Sulfate	mg/L	1.00	ND
Nitrate as Nitrogen	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Bromide	mg/L	1.00	ND	0.00	0	0 - 20
Chloride	mg/L	10.0	30.1	30.1	0.0698	0 - 20
Fluoride	mg/L	1.00	0.625	0.624	0.160	0 - 20
Sulfate	mg/L	10.0	41.8	42.0	0.451	0 - 20
Nitrate as Nitrogen	mg/L	1.00	1.10	1.10	0.363	0 - 20

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Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Bromide	mg/L	1.00	3.96	4.00	99.0	90 - 110
Chloride	mg/L	1.00	3.95	4.00	98.6	90 - 110
Fluoride	mg/L	1.00	4.12	4.00	103.	90 - 110
Sulfate	mg/L	1.00	20.0	20.0	100.	90 - 110
Nitrate as Nitrogen	mg/L	1.00	4.02	4.00	100.	90 - 110

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Bromide	mg/L	1.00	1.95	2.00(2.00)	97.5	85 - 115
Chloride	mg/L	10.0	70.6	70.1(40.0)	101.	85 - 115
Fluoride	mg/L	1.00	2.68	2.62(2.00)	103.	85 - 115
Sulfate	mg/L	10.0	84.0	82.0(40.0)	105.	85 - 115
Nitrate as Nitrogen	mg/L	1.00	3.14	3.10(2.00)	102.	85 - 115

Matrix Spike Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Bromide	mg/L	1.00	1.91	2.00(2.00)	95.6	85 - 115
Fluoride	mg/L	1.00	2.69	2.62(2.00)	103.	85 - 115
Nitrate as Nitrogen	mg/L	1.00	3.09	3.10(2.00)	99.7	85 - 115

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Bromide	mg/L	1.00	3.95	4.00	98.8	90 - 110
Chloride	mg/L	1.00	3.91	4.00	97.8	90 - 110
Fluoride	mg/L	1.00	4.10	4.00	102.	90 - 110
Sulfate	mg/L	1.00	20.2	20.0	101.	90 - 110
Nitrate as Nitrogen	mg/L	1.00	4.01	4.00	100.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Bromide	mg/L	1.00	2.87	3.00	95.8	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Bromide	mg/L	1.00	2.90	3.00	96.8	90 - 110
Chloride	mg/L	1.00	2.99	3.00	99.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chloride	mg/L	1.00	2.96	3.00	98.7	90 - 110

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Nitrite SM 4500-NO2 B

Batch 05NO212I

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Nitrite as Nitrogen	mg/L	05/17/2012 14:38	1.00	0.000360	0.0050	ND

Method Blank

Parameter	Unit	DF	Result
Nitrite as Nitrogen	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0401	0.0400	100.	90 - 110

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0204	0.0200(0.0200)	102	85 - 115

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0201	0.0200	100.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Nitrite as Nitrogen	mg/L	1.00	0.0205	0.0200	102.	90 - 110

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Alkalinity by SM 2320B

Batch 05ALK12G

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Alkalinity as CaCO3	mg/L	05/23/2012	1.00	1.68	5.00	110.
Bicarbonate (Calculated)	mg/L	05/23/2012	1.00	1.68	5.00	110.
Carbonate (Calculated)	mg/L	05/23/2012	1.00	1.68	5.00	ND

Method Blank

Parameter	Unit	DF	Result
Alkalinity as CaCO3	mg/L	1.00	ND

Duplicate — Lab ID = 801751-003

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	112	115	2.64	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	99.0	100.	99.0	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	98.0	100.	98.0	90 - 110

Matrix Spike — Lab ID = 801751-003

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	212	215(100.)	97.0	75 - 125

Matrix Spike Duplicate — Lab ID = 801751-003

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Alkalinity as CaCO3	mg/L	1.00	201	215(100.)	86.0	75 - 125

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Specific Conductivity - EPA 120.1

Batch 05EC12G

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Specific Conductivity	umhos/cm	05/17/2012	1.00	0.0950	2.00	431

Method Blank

Parameter	Unit	DF	Result
Specific Conductivity	umhos	1.00	ND

Duplicate

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Specific Conductivity	umhos	1.00	432	431	0.232	0 - 10

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Specific Conductivity	umhos	1.00	701	706	99.3	90 - 110

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Specific Conductivity	umhos	1.00	702	706	99.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Specific Conductivity	umhos	1.00	995	998	99.7	90 - 110

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Gross Beta per 900.0

Batch 12B-05-C

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Gross Beta	pCi/L	05/23/2012	1.00	1.19	4.00	ND
Gross Beta Counting Error	pCi/L	05/23/2012	1.00	1.00	1.00	1.47

Method Blank

Parameter	Unit	DF	Result
Gross Beta	pCi/L	1.00	ND
Gross Beta Counting Error	pCi/L	1.00	0.770

Duplicate — Lab ID = 801284-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Gross Beta	pCi/L	1.00	ND	0.00	0	0 - 20
Gross Beta Counting Error	pCi/L	1.00	1.91	1.89	1.05	

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Gross Beta	pCi/L	1.00	40.4	38.6	104.	80 - 120
Gross Beta Counting Error	pCi/L	1.00	3.36	0.00		

Matrix Spike — Lab ID = 801284-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Gross Beta	pCi/L	1.00	159.	155(155)	103.	75 - 125
Gross Beta Counting Error	pCi/L	1.00	8.11	1.89(0.00)		

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Turbidity by EPA 180.1

Batch 05TUC12M

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Turbidity	NTU	05/17/2012	1.00	0.0140	0.100	ND

Method Blank

Parameter	Unit	DF	Result
Turbidity	NTU	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Turbidity	NTU	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Turbidity	NTU	1.00	7.80	8.00	97.5	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Turbidity	NTU	1.00	7.92	8.00	99.0	90 - 110

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Chrome VI by EPA 218.6

Batch 05CrH12M

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Chromium, Hexavalent	ug/L	05/17/2012 10:34	1.00	0.0250	0.20	0.97

Method Blank

Parameter	Unit	DF	Result
Chromium, Hexavalent	ug/L	1.00	ND

Duplicate — Lab ID = 801652-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	4.32	4.32	0.0857	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.197	0.200	98.6	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	4.90	5.00	98.0	90 - 110

Matrix Spike — Lab ID = 801526-003

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.973	1.00(1.00)	97.3	90 - 110

Matrix Spike — Lab ID = 801526-009

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.16	1.22(1.00)	94.3	90 - 110

Matrix Spike — Lab ID = 801526-010

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.06	1.05(1.00)	101.	90 - 110

Matrix Spike — Lab ID = 801526-011

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	6.90	6.96(5.00)	98.9	90 - 110

Matrix Spike — Lab ID = 801526-012

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.33	1.33(1.00)	100.	90 - 110

Matrix Spike — Lab ID = 801652-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.24	9.32(5.00)	98.5	90 - 110

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Matrix Spike — Lab ID = 801652-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	6.49	6.51(5.00)	99.7	90 - 110

Matrix Spike — Lab ID = 801652-003

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	7.17	7.18(5.00)	99.9	90 - 110

Matrix Spike — Lab ID = 801652-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.994	1.00(1.00)	99.4	90 - 110

Matrix Spike — Lab ID = 801652-005

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	15.2	15.5(10.0)	97.4	90 - 110

Matrix Spike — Lab ID = 801652-006

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.97	9.98(5.00)	99.8	90 - 110

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.97	1.97(1.00)	100.	90 - 110

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	4.88	5.00	97.6	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.84	10.0	98.4	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.93	10.0	99.3	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.94	10.0	99.4	95 - 105

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Metals by EPA 200.7, Total

Batch 051912A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Aluminum	ug/L	05/19/2012 19:47	1.00	2.83	50.0	ND
	Boron	ug/L	05/19/2012 19:47	1.00	1.50	200.	ND
	Calcium	mg/L	05/19/2012 17:49	20.0	0.391	10.0	34.9
	Iron	ug/L	05/19/2012 19:47	1.00	1.34	20.0	ND
	Nickel	ug/L	05/19/2012 19:47	1.00	2.56	10.0	ND
	Sodium	mg/L	05/19/2012 17:49	20.0	1.17	10.0	42.0

Method Blank

Parameter	Unit	DF	Result
Aluminum	ug/L	1.00	ND
Calcium	mg/L	1.00	ND
Iron	ug/L	1.00	ND
Nickel	ug/L	1.00	ND
Sodium	mg/L	1.00	ND
Boron	ug/L	1.00	ND

Duplicate Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Aluminum	ug/L	1.00	ND	0.00	0	0 - 20
Calcium	mg/L	20.0	36.7	34.9	5.11	0 - 20
Iron	ug/L	1.00	ND	0.00	0	0 - 20
Nickel	ug/L	1.00	ND	0.00	0	0 - 20
Sodium	mg/L	20.0	43.1	42.0	2.54	0 - 20
Boron	ug/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	2140	2000	107.	85 - 115
Calcium	mg/L	1.00	2.11	2.00	106.	85 - 115
Iron	ug/L	1.00	2160	2000	108.	85 - 115
Nickel	ug/L	1.00	1960	2000	98.0	85 - 115
Sodium	mg/L	1.00	1.87	2.00	93.5	85 - 115
Boron	ug/L	1.00	1970	2000	98.5	85 - 115

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Matrix Spike

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Aluminum	ug/L	1.00	1900	2000(2000)	95.1	75 - 125
Calcium	mg/L	20.0	73.8	74.9(40.0)	97.3	75 - 125
Iron	ug/L	1.00	2040	2000(2000)	102.	75 - 125
Nickel	ug/L	1.00	1950	2000(2000)	97.6	75 - 125
Sodium	mg/L	20.0	81.4	82.0(40.0)	98.5	75 - 125
Boron	ug/L	1.00	2040	2000(2000)	102.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5350	5000	107.	95 - 105
Calcium	mg/L	1.00	5.17	5.00	103.	95 - 105
Iron	ug/L	1.00	5230	5000	105.	95 - 105
Nickel	ug/L	1.00	4890	5000	97.7	95 - 105
Sodium	mg/L	1.00	4.96	5.00	99.3	95 - 105
Boron	ug/L	1.00	5120	5000	102.	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5090	5000	102.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	4870	5000	97.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5170	5000	103.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5220	5000	104.	90 - 110
Calcium	mg/L	1.00	4.81	5.00	96.3	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	4.51	5.00	90.2	90 - 110
Iron	ug/L	1.00	5060	5000	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Iron	ug/L	1.00	4960	5000	99.1	90 - 110

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Metals by EPA 200.7, Total

Batch 052112A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Magnesium	mg/L	05/21/2012 13:56	1.00	0.0196	0.500	6.32
	Potassium	mg/L	05/21/2012 13:56	1.00	0.0685	0.500	3.76
	Zinc	ug/L	05/21/2012 13:56	1.00	3.89	10.0	14.2

Method Blank

Parameter	Unit	DF	Result
Zinc	ug/L	1.00	ND
Potassium	mg/L	1.00	ND
Magnesium	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Zinc	ug/L	1.00	14.9	14.2	4.81	0 - 20
Potassium	mg/L	1.00	3.78	3.76	0.636	0 - 20
Magnesium	mg/L	1.00	6.30	6.32	0.349	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	1970	2000	98.4	85 - 115
Potassium	mg/L	1.00	2.12	2.00	106.	85 - 115
Magnesium	mg/L	1.00	2.07	2.00	103.	85 - 115

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Zinc	ug/L	1.00	1980	2010(2000)	98.0	75 - 125
Potassium	mg/L	1.00	5.82	5.76(2.00)	103.	75 - 125
Magnesium	mg/L	1.00	8.34	8.32(2.00)	101.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	5120	5000	102.	95 - 105
Potassium	mg/L	1.00	5.14	5.00	103.	95 - 105
Magnesium	mg/L	1.00	5.17	5.00	103.	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	4670	5000	93.3	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	4930	5000	98.6	90 - 110

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Metals by EPA 6020A, Dissolved

Batch 051812A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Molybdenum	ug/L	05/18/2012 20:43	5.00	0.150	10.0	ND
Vanadium	ug/L	05/18/2012 20:43	5.00	0.325	5.0	5.2

Method Blank

Parameter	Unit	DF	Result
Chromium	ug/L	1.00	ND
Vanadium	ug/L	1.00	ND
Molybdenum	ug/L	1.00	ND

Duplicate — Lab ID = 801652-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Chromium	ug/L	5.00	4.75	4.32	9.50	0 - 20
Vanadium	ug/L	5.00	ND	6.65	0	0 - 20
Molybdenum	ug/L	5.00	ND	0.00	0	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	0.168	0.200	84.1	70 - 130
Vanadium	ug/L	1.00	1.11	1.00	111.	70 - 130
Molybdenum	ug/L	1.00	1.03	1.00	103.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	5.00	94.9	100.	94.9	85 - 115
Vanadium	ug/L	5.00	97.4	100.	97.4	85 - 115
Molybdenum	ug/L	5.00	93.1	100.	93.1	85 - 115

Matrix Spike — Lab ID = 801652-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium	ug/L	5.00	102.	104.(100.)	97.8	75 - 125
Vanadium	ug/L	5.00	107.	107.(100.)	101.	75 - 125
Molybdenum	ug/L	5.00	103.	100.(100.)	103.	75 - 125

Matrix Spike Duplicate — Lab ID = 801652-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium	ug/L	5.00	105.	104.(100.)	101.	75 - 125
Vanadium	ug/L	5.00	112.	107.(100.)	106.	75 - 125
Molybdenum	ug/L	5.00	101.	100.(100.)	101.	75 - 125

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Metals by EPA 6020A, Dissolved

Batch 052212B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Barium	ug/L	05/23/2012 07:36	1.00	0.0410	10.0	54.0
	Chromium	ug/L	05/23/2012 07:36	1.00	0.0390	1.0	1.4
	Manganese	ug/L	05/23/2012 07:36	1.00	0.0540	0.50	ND

Method Blank

Parameter	Unit	DF	Result
Barium	ug/L	1.00	ND
Chromium	ug/L	1.00	ND
Selenium	ug/L	1.00	ND
Manganese	ug/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Barium	ug/L	5.00	47.0	45.5	3.31	0 - 20
Chromium	ug/L	5.00	ND	1.03	0	0 - 20
Selenium	ug/L	5.00	ND	0.00	0	0 - 20
Manganese	ug/L	5.00	2.30	2.60	12.4	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	0.955	1.00	95.5	70 - 130
Chromium	ug/L	1.00	0.219	0.200	109.	70 - 130
Selenium	ug/L	1.00	0.997	1.00	99.7	70 - 130
Manganese	ug/L	1.00	0.183	0.200	91.4	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	5.00	104.	100.	104.	85 - 115
Chromium	ug/L	5.00	106.	100.	106.	85 - 115
Selenium	ug/L	5.00	92.7	100.	92.7	85 - 115
Manganese	ug/L	5.00	106.	100.	106.	85 - 115

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Barium	ug/L	5.00	141	146.(100.)	95.5	75 - 125
Chromium	ug/L	5.00	98.2	101.(100.)	97.1	75 - 125
Selenium	ug/L	5.00	85.5	100.(100.)	85.5	75 - 125
Manganese	ug/L	5.00	98.3	103.(100.)	95.7	75 - 125

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Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Manganese	ug/L	1.00	9.83	10.0	98.3	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Manganese	ug/L	1.00	10.2	10.0	102.	80 - 120

Serial Dilution — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Barium	ug/L	25.0	53.6	54.0	0.669	

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Metals by EPA 6020A, Dissolved

Batch 052312B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Arsenic	ug/L	05/24/2012 04:35	1.00	0.0530	1.0	1.1
Silver	ug/L	05/24/2012 04:35	1.00	0.0250	5.0	ND

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND
Silver	ug/L	1.00	ND
Manganese	ug/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Arsenic	ug/L	1.00	1.44	1.42	1.19	0 - 20
Silver	ug/L	1.00	ND	0.00	0	0 - 20
Manganese	ug/L	1.00	2.26	2.66	16.3	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.244	0.200	122.	70 - 130
Silver	ug/L	1.00	1.06	1.00	106.	70 - 130
Manganese	ug/L	1.00	0.194	0.200	96.8	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	94.6	100.	94.6	85 - 115
Silver	ug/L	5.00	98.4	100.	98.4	85 - 115
Manganese	ug/L	5.00	97.3	100.	97.3	85 - 115

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	87.4	101.(100.)	86.0	75 - 125
Silver	ug/L	1.00	90.5	100.(100.)	90.5	75 - 125
Manganese	ug/L	1.00	101.	103.(100.)	98.0	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	86.6	101.(100.)	85.2	75 - 125
Silver	ug/L	1.00	90.5	100.(100.)	90.5	75 - 125
Manganese	ug/L	1.00	100.	103.(100.)	97.4	75 - 125

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Metals by EPA 6010B, Dissolved

Batch 051912A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Aluminum	ug/L	05/19/2012 20:14	1.00	2.83	50.0	ND
	Boron	ug/L	05/19/2012 20:14	1.00	1.50	200.	ND
	Calcium	mg/L	05/19/2012 18:06	20.0	0.391	10.0	34.8
	Iron	ug/L	05/19/2012 20:14	1.00	1.34	20.0	ND
	Nickel	ug/L	05/19/2012 20:14	1.00	2.56	10.0	ND
	Sodium	mg/L	05/19/2012 18:06	20.0	1.17	10.0	40.0

Method Blank

Parameter	Unit	DF	Result
Aluminum	ug/L	1.00	ND
Calcium	mg/L	1.00	ND
Iron	ug/L	1.00	ND
Nickel	ug/L	1.00	ND
Sodium	mg/L	1.00	ND
Boron	ug/L	1.00	ND

Duplicate

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Aluminum	ug/L	1.00	ND	0.00	0	0 - 20
Calcium	mg/L	20.0	33.6	34.8	3.45	0 - 20
Iron	ug/L	1.00	ND	0.00	0	0 - 20
Nickel	ug/L	1.00	ND	0.00	0	0 - 20
Sodium	mg/L	20.0	42.7	40.0	6.44	0 - 20
Boron	ug/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	2140	2000	107.	85 - 115
Calcium	mg/L	1.00	2.11	2.00	106.	85 - 115
Iron	ug/L	1.00	2160	2000	108.	85 - 115
Nickel	ug/L	1.00	1960	2000	98.0	85 - 115
Sodium	mg/L	1.00	1.87	2.00	93.5	85 - 115
Boron	ug/L	1.00	1970	2000	98.5	85 - 115

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Matrix Spike Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Aluminum	ug/L	1.00	1870	2000(2000)	93.4	75 - 125
Calcium	mg/L	20.0	73.0	74.8(40.0)	95.5	75 - 125
Iron	ug/L	1.00	2040	2000(2000)	102.	75 - 125
Nickel	ug/L	1.00	1940	2000(2000)	97.2	75 - 125
Sodium	mg/L	20.0	80.4	80.0(40.0)	101.	75 - 125
Boron	ug/L	1.00	2010	2000(2000)	100.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5350	5000	107.	90 - 110
Calcium	mg/L	1.00	5.17	5.00	103.	90 - 110
Iron	ug/L	1.00	5230	5000	105.	90 - 110
Nickel	ug/L	1.00	4890	5000	97.7	90 - 110
Sodium	mg/L	1.00	4.96	5.00	99.3	90 - 110
Boron	ug/L	1.00	5120	5000	102.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5220	5000	104.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	4870	5000	97.4	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5170	5000	103.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Aluminum	ug/L	1.00	5090	5000	102.	90 - 110
Calcium	mg/L	1.00	4.51	5.00	90.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Calcium	mg/L	1.00	4.81	5.00	96.3	90 - 110
Iron	ug/L	1.00	5140	5000	103.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Iron	ug/L	1.00	4960	5000	99.1	90 - 110

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Metals by EPA 6010B, Dissolved

Batch 052112A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Magnesium	mg/L	05/21/2012 14:31	1.00	0.0619	0.500	6.23
	Potassium	mg/L	05/21/2012 14:31	1.00	0.0685	0.500	3.74
	Zinc	ug/L	05/21/2012 14:31	1.00	3.89	10.0	15.6

Method Blank

Parameter	Unit	DF	Result
Zinc	ug/L	1.00	ND
Potassium	mg/L	1.00	ND
Magnesium	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Zinc	ug/L	1.00	15.1	15.6	3.26	0 - 20
Potassium	mg/L	1.00	3.77	3.74	0.799	0 - 20
Magnesium	mg/L	1.00	6.27	6.23	0.624	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	1970	2000	98.4	85 - 115
Potassium	mg/L	1.00	2.12	2.00	106.	85 - 115
Magnesium	mg/L	1.00	2.07	2.00	103.	85 - 115

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Zinc	ug/L	1.00	1960	2020(2000)	97.4	75 - 125
Potassium	mg/L	1.00	6.00	5.74(2.00)	113.	75 - 125
Magnesium	mg/L	1.00	8.51	8.23(2.00)	114.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	5120	5000	102.	90 - 110
Potassium	mg/L	1.00	5.14	5.00	103.	90 - 110
Magnesium	mg/L	1.00	5.17	5.00	103.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	4670	5000	93.3	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	4930	5000	98.6	90 - 110

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Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Zinc	ug/L	1.00	2060	2000	103.	80 - 120
Potassium	mg/L	1.00	2.02	2.00	101.	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Potassium	mg/L	1.00	2.18	2.00	109.	80 - 120
Magnesium	mg/L	1.00	2.11	2.00	106.	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Magnesium	mg/L	1.00	2.16	2.00	108.	80 - 120

Coliform Group Bacteria, MTF by SM 9221B/E

Batch SM9221B 5/17/12

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Coliforms, Fecal	MPN/100 mL	05/17/2012 09:30	1.00	1.00	2.00	ND
Coliforms, Total	MPN/100 mL	05/17/2012 09:30	1.00	1.00	2.00	ND

Coliform Bacteria MPN - SM 9223B

Batch MPNLert180 5/17/12

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 E. Coli	MPN/100 mL	05/17/2012 09:30	1.00	1.00	1.00	ND

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Metals by EPA 200.8, Total

Batch 052312B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Arsenic	ug/L	05/24/2012 07:22	1.00	0.0530	1.0	1.2
Silver	ug/L	05/24/2012 07:22	1.00	0.0250	5.0	ND

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND
Silver	ug/L	1.00	ND
Manganese	ug/L	1.00	ND

Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Arsenic	ug/L	1.00	1.44	1.29	11.2	0 - 20
Silver	ug/L	1.00	ND	0.00	0	0 - 20
Manganese	ug/L	1.00	1.87	1.96	4.54	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.244	0.200	122.	70 - 130
Silver	ug/L	1.00	1.06	1.00	106.	70 - 130
Manganese	ug/L	1.00	0.194	0.200	96.8	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	94.6	100.	94.6	85 - 115
Silver	ug/L	5.00	98.4	100.	98.4	85 - 115
Manganese	ug/L	5.00	97.3	100.	97.3	85 - 115

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	88.6	101.(100.)	87.4	75 - 125
Silver	ug/L	1.00	93.7	100.(100.)	93.7	75 - 125
Manganese	ug/L	1.00	102.	102.(100.)	99.9	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	1.00	87.3	101.(100.)	86.0	75 - 125
Silver	ug/L	1.00	91.3	100.(100.)	91.3	75 - 125
Manganese	ug/L	1.00	100.	102.(100.)	98.5	75 - 125

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Metals by EPA 200.8, Total

Batch 052212B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Barium	ug/L	05/23/2012 12:54	1.00	0.0410	10.0	54.7
	Manganese	ug/L	05/23/2012 12:54	1.00	0.0540	0.50	ND
	Selenium	ug/L	05/23/2012 12:54	1.00	0.0710	10.0	ND
	Thallium	ug/L	05/23/2012 12:54	1.00	0.0530	1.0	ND

Method Blank

Parameter	Unit	DF	Result
Barium	ug/L	1.00	ND
Beryllium	ug/L	1.00	ND
Cadmium	ug/L	1.00	ND
Cobalt	ug/L	1.00	ND
Chromium	ug/L	1.00	ND
Selenium	ug/L	1.00	ND
Antimony	ug/L	1.00	ND
Lead	ug/L	1.00	ND
Thallium	ug/L	1.00	ND
Vanadium	ug/L	1.00	ND
Manganese	ug/L	1.00	ND
Molybdenum	ug/L	1.00	ND

Duplicate

Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Barium	ug/L	5.00	46.3	46.0	0.564	0 - 20
Beryllium	ug/L	5.00	ND	0.00	0	0 - 20
Cadmium	ug/L	5.00	ND	0.00	0	0 - 20
Cobalt	ug/L	5.00	ND	0.00	0	0 - 20
Chromium	ug/L	5.00	ND	1.00	0	0 - 20
Selenium	ug/L	5.00	ND	0.00	0	0 - 20
Antimony	ug/L	5.00	ND	0.00	0	0 - 20
Lead	ug/L	5.00	ND	0.00	0	0 - 20
Thallium	ug/L	5.00	ND	0.00	0	0 - 20
Vanadium	ug/L	5.00	7.44	7.50	0.844	0 - 20
Manganese	ug/L	5.00	1.90	1.74	8.79	0 - 20
Molybdenum	ug/L	5.00	3.31	0.00	0	0 - 20

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Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	1.00	0.955	1.00	95.5	70 - 130
Beryllium	ug/L	1.00	0.200	0.200	100.0	70 - 130
Cadmium	ug/L	1.00	0.174	0.200	87.2	70 - 130
Cobalt	ug/L	1.00	01000	1.00	100.0	70 - 130
Chromium	ug/L	1.00	0.219	0.200	109.	70 - 130
Selenium	ug/L	1.00	0.997	1.00	99.7	70 - 130
Antimony	ug/L	1.00	1.00	1.00	100.	70 - 130
Lead	ug/L	1.00	1.02	1.00	102.	70 - 130
Thallium	ug/L	1.00	0.196	0.200	97.8	70 - 130
Vanadium	ug/L	1.00	0.928	1.00	92.8	70 - 130
Manganese	ug/L	1.00	0.183	0.200	91.4	70 - 130
Molybdenum	ug/L	1.00	0.917	1.00	91.7	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Barium	ug/L	5.00	104.	100.	104.	85 - 115
Beryllium	ug/L	5.00	103.	100.	103.	85 - 115
Cadmium	ug/L	5.00	101.	100.	101.	85 - 115
Cobalt	ug/L	5.00	104.	100.	104.	85 - 115
Chromium	ug/L	5.00	106.	100.	106.	85 - 115
Selenium	ug/L	5.00	92.7	100.	92.7	85 - 115
Antimony	ug/L	5.00	105.	100.	105.	85 - 115
Lead	ug/L	1.00	106.	100.	106.	85 - 115
Thallium	ug/L	1.00	102.	100.	102.	85 - 115
Vanadium	ug/L	5.00	105.	100.	105.	85 - 115
Manganese	ug/L	5.00	106.	100.	106.	85 - 115
Molybdenum	ug/L	5.00	105.	100.	105.	85 - 115

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Serial Dilution

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Barium	ug/L	5.00	54.3	54.7	0.679	0 - 10

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Printed 6/8/2012
Revised

Metals by EPA 200.8, Total

Batch 052712B

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Copper	ug/L	05/28/2012 15:47	5.00	0.235	5.0	ND
	Uranium	pCi/L	05/28/2012 15:47	5.00	0.280	1.00	3.08
	Uranium	ug/L	05/28/2012 15:47	5.00	0.280	1.0	4.6

Method Blank

Parameter	Unit	DF	Result
Copper	ug/L	1.00	ND

Method Blank

Parameter	Unit	DF	Result
Copper	ug/L	1.00	ND

Method Blank

Parameter	Unit	DF	Result
Uranium	ug/L	1.00	ND

Method Blank

Parameter	Unit	DF	Result
Uranium	ug/L	1.00	ND

Duplicate

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Copper	ug/L	5.00	ND	0.00	0	0 - 20
Uranium	ug/L	5.00	4.68	4.59	1.92	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	1.00	1.08	1.00	108.	70 - 130
Uranium	ug/L	1.00	0.206	0.200	103.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	5.00	113.	100.	113.	85 - 115

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	5.00	102.	100.	102.	85 - 115

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Uranium	ug/L	5.00	101.	100.	101.	85 - 115

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Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Uranium	ug/L	5.00	98.4	100.	98.4	85 - 115

Lab ID = 801603-001

Matrix Spike

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Copper	ug/L	5.00	100.	100.(100.)	100.	75 - 125
Uranium	ug/L	5.00	99.9	100.(100.)	99.9	75 - 125

Lab ID = 801653-001

Matrix Spike

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Copper	ug/L	5.00	98.6	100.(100.)	98.6	75 - 125
Uranium	ug/L	5.00	105.	104.(100.)	100.	75 - 125

Lab ID = 801603-001

Matrix Spike Duplicate

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Copper	ug/L	5.00	98.1	100.(100.)	98.1	75 - 125
Uranium	ug/L	5.00	101	100.(100.)	101	75 - 125

Lab ID = 801653-001

Matrix Spike Duplicate

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Copper	ug/L	5.00	102.	100.(100.)	102.	75 - 125
Uranium	ug/L	5.00	106	104.(100.)	101.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	1.00	10.4	10.0	104.	90 - 110
Uranium	ug/L	1.00	9.82	10.0	98.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	1.00	10.3	10.0	103.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	1.00	10.4	10.0	104.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Copper	ug/L	1.00	10.1	10.0	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Uranium	ug/L	1.00	9.86	10.0	98.6	90 - 110

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Metals by EPA 200.8, Total

Batch 052912A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Mercury	ug/L	05/29/2012 17:56	5.00	0.120	1.0	ND

Method Blank

Parameter	Unit	DF	Result
Mercury	ug/L	1.00	ND

Method Blank

Parameter	Unit	DF	Result
Mercury	ug/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Mercury	ug/L	5.00	ND	0.00	0	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	1.00	0.141	0.200	70.5	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	5.00	19.0	20.0	95.0	85 - 115

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Mercury	ug/L	5.00	18.9	20.0	94.6	85 - 115

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Mercury	ug/L	5.00	17.4	20.0(20.0)	86.8	75 - 125

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Mercury	ug/L	5.00	17.6	20.0(20.0)	87.9	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Mercury	ug/L	5.00	18.5	20.0(20.0)	92.4	75 - 125

Matrix Spike Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Mercury	ug/L	5.00	17.3	20.0(20.0)	86.4	75 - 125

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Metals by EPA 200.8, Total

Batch 051812A

Parameter		Unit	Analyzed	DF	MDL	RL	Result
801653-001	Antimony	ug/L	05/18/2012 21:34	5.00	0.420	5.0	ND
	Beryllium	ug/L	05/18/2012 21:34	5.00	0.140	1.0	ND
	Cadmium	ug/L	05/18/2012 21:34	5.00	0.135	3.0	ND
	Chromium	ug/L	05/18/2012 21:34	5.00	0.195	1.0	ND
	Cobalt	ug/L	05/18/2012 21:34	5.00	0.270	5.0	ND
	Lead	ug/L	05/18/2012 21:34	5.00	0.265	10.0	ND
	Molybdenum	ug/L	05/18/2012 21:34	5.00	0.150	10.0	ND
	Vanadium	ug/L	05/18/2012 21:34	5.00	0.325	5.0	5.4

Method Blank

Parameter	Unit	DF	Result
Beryllium	ug/L	1.00	ND
Cadmium	ug/L	1.00	ND
Cobalt	ug/L	1.00	ND
Chromium	ug/L	1.00	ND
Antimony	ug/L	1.00	ND
Lead	ug/L	1.00	ND
Vanadium	ug/L	1.00	ND
Molybdenum	ug/L	1.00	ND

Duplicate

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Beryllium	ug/L	5.00	ND	0.00	0	0 - 20
Cadmium	ug/L	5.00	ND	0.00	0	0 - 20
Cobalt	ug/L	5.00	ND	0.00	0	0 - 20
Chromium	ug/L	5.00	ND	0.00	0	0 - 20
Antimony	ug/L	5.00	ND	0.00	0	0 - 20
Lead	ug/L	5.00	ND	0.00	0	0 - 20
Vanadium	ug/L	5.00	5.42	5.43	0.240	0 - 20
Molybdenum	ug/L	5.00	ND	0.00	0	0 - 20

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Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	0.214	0.200	107.	70 - 130
Cadmium	ug/L	1.00	0.209	0.200	104.	70 - 130
Cobalt	ug/L	1.00	1.06	1.00	106.	70 - 130
Chromium	ug/L	1.00	0.168	0.200	84.1	70 - 130
Antimony	ug/L	1.00	1.09	1.00	109.	70 - 130
Lead	ug/L	1.00	1.09	1.00	109.	70 - 130
Vanadium	ug/L	1.00	1.11	1.00	111.	70 - 130
Molybdenum	ug/L	1.00	1.03	1.00	103.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	5.00	89.9	100.	89.9	85 - 115
Cadmium	ug/L	5.00	93.2	100.	93.2	85 - 115
Cobalt	ug/L	5.00	98.2	100.	98.2	85 - 115
Chromium	ug/L	5.00	94.9	100.	94.9	85 - 115
Antimony	ug/L	5.00	97.2	100.	97.2	85 - 115
Lead	ug/L	5.00	101.	100.	101.	85 - 115
Vanadium	ug/L	5.00	97.4	100.	97.4	85 - 115
Molybdenum	ug/L	5.00	93.1	100.	93.1	85 - 115

Matrix Spike Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Beryllium	ug/L	5.00	97.1	100.(100.)	97.1	75 - 125
Cadmium	ug/L	5.00	95.3	100.(100.)	95.3	75 - 125
Cobalt	ug/L	5.00	97.3	100.(100.)	97.3	75 - 125
Chromium	ug/L	5.00	96.6	100.(100.)	96.6	75 - 125
Antimony	ug/L	5.00	101.	100.(100.)	101.	75 - 125
Lead	ug/L	5.00	102.	100.(100.)	102.	75 - 125
Vanadium	ug/L	5.00	104.	105.(100.)	99.0	75 - 125
Molybdenum	ug/L	5.00	100.	100.(100.)	100.	75 - 125

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Matrix Spike Duplicate Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Beryllium	ug/L	5.00	96.6	100.(100.)	96.6	75 - 125
Cadmium	ug/L	5.00	95.3	100.(100.)	95.3	75 - 125
Cobalt	ug/L	5.00	97.8	100.(100.)	97.8	75 - 125
Chromium	ug/L	5.00	97.8	100.(100.)	97.8	75 - 125
Antimony	ug/L	5.00	98.6	100.(100.)	98.6	75 - 125
Lead	ug/L	5.00	100.	100.(100.)	100.	75 - 125
Vanadium	ug/L	5.00	104.	105.(100.)	98.9	75 - 125
Molybdenum	ug/L	5.00	101.	100.(100.)	101.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	10.1	10.0	101.	90 - 110
Cadmium	ug/L	1.00	9.84	10.0	98.4	90 - 110
Cobalt	ug/L	1.00	9.72	10.0	97.2	90 - 110
Chromium	ug/L	1.00	9.66	10.0	96.6	90 - 110
Antimony	ug/L	1.00	9.72	10.0	97.2	90 - 110
Lead	ug/L	1.00	9.82	10.0	98.2	90 - 110
Vanadium	ug/L	1.00	9.88	10.0	98.8	90 - 110
Molybdenum	ug/L	1.00	9.47	10.0	94.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	9.82	10.0	98.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	10.1	10.0	101.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	9.88	10.0	98.8	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	10.2	10.0	102.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Beryllium	ug/L	1.00	9.89	10.0	98.9	90 - 110

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Reactive Silica by SM4500-Si D

Batch 05Si12C

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Silica	mg/L	05/21/2012	25.0	0.532	1.00	36.0

Method Blank

Parameter	Unit	DF	Result
Silica	mg/L	1.00	ND

Duplicate — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Silica	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silica	mg/L	1.00	0.208	0.220	94.6	90 - 110

Matrix Spike — Lab ID = 801608-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Silica	mg/L	1.00	0.393	0.400(0.400)	98.2	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silica	mg/L	1.00	0.0992	0.110	90.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Silica	mg/L	1.00	0.418	0.400	104.	90 - 110

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Sulfide by SM 4500-S2 D

Batch 05S12C

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Total Sulfide	mg/L	05/17/2012	1.00	0.00550	2.00	ND

Method Blank

Parameter	Unit	DF	Result
Total Sulfide	mg/L	1.00	ND

Duplicate — Lab ID = 801561-004

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Sulfide	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.279	0.284	98.2	90 - 110

Matrix Spike — Lab ID = 801561-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.140	0.142(0.142)	98.9	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.142	0.142	99.8	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.139	0.142	98.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Sulfide	mg/L	1.00	0.139	0.142	98.2	90 - 110

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pH by SM 4500-H B

Batch 05PH12N

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 pH	pH	05/17/2012 09:38	1.00	0.0593	4.00	7.51

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
pH	pH	1.00	7.54	7.51	0.399	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH	1.00	7.02	7.00	100.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
pH	pH	1.00	7.05	7.00	101.	90 - 110

Total Dissolved Solids by SM 2540 C

Batch 05TDS12G

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Total Dissolved Solids	mg/L	05/18/2012	1.00	0.400	25.0	278

Method Blank

Parameter	Unit	DF	Result
Total Dissolved Solids	mg/L	1.00	ND

Duplicate — Lab ID = 801604-005

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Dissolved Solids	mg/L	1.00	324	312	3.77	0 - 5

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Dissolved Solids	mg/L	1.00	501	500.	100.	90 - 110

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Total Suspended Solids by SM 2540 D

Batch 05TSS12F

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Total Suspended Solids	mg/L	05/17/2012	1.00	0.217	10.0	ND

Method Blank

Parameter	Unit	DF	Result
Total Suspended Solids	mg/L	1.00	ND

Duplicate

Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Suspended Solids	mg/L	1.00	ND	0.00	0	0 - 5

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Suspended Solids	mg/L	1.00	98.0	100.	98.0	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Suspended Solids	mg/L	1.00	97.0	100.	97.0	90 - 110

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Total Phosphate, SM 4500-PB,E

Batch 05TP12B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Phosphate, Total As P	mg/L	05/22/2012	1.00	0.00530	0.0200	0.0506

Method Blank

Parameter	Unit	DF	Result
Phosphate, Total As P	mg/L	1.00	ND

Duplicate — Lab ID = 801591-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Phosphate, Total As P	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.104	0.100	104.	90 - 110

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0705	0.0650(0.0650)	108.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0624	0.0600	104	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0702	0.0650	108	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Phosphate, Total As P	mg/L	1.00	0.0702	0.0650	108	90 - 110

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Client: CH2MHill

Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW

Printed 6/8/2012
Revised

Ammonia Nitrogen by SM4500-NH3D

Batch 05NH312B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Ammonia as N	mg/L	05/18/2012	1.00	0.00120	0.500	ND

Method Blank

Parameter	Unit	DF	Result
Ammonia as N	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Ammonia as N	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	9.36	10.0	93.6	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	9.23	10.0	92.3	90 - 110

Matrix Spike — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	6.03	6.08(6.00)	99.2	75 - 125

Matrix Spike Duplicate — Lab ID = 801603-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	6.61	6.08(6.00)	109.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	6.25	6.00	104.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	5.55	6.00	92.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Ammonia as N	mg/L	1.00	5.84	6.00	97.3	90 - 110

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Ortho Phosphate, SM4500-PE

Batch 05OP12B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 o-Phosphate as P	mg/L	05/17/2012 18:33	1.00	0.00322	0.0200	0.0435

Method Blank

Parameter	Unit	DF	Result
o-Phosphate as P	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0432	0.0435	0.692	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0969	0.100	96.9	90 - 110

Matrix Spike — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.111	0.108(0.0650)	103.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0583	0.0600	97.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
o-Phosphate as P	mg/L	1.00	0.0684	0.0650	105.	90 - 110

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Total Cyanide by SM4500-CN E

Batch 05CN12B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Cyanide, Total	mg/L	05/21/2012	1.00	0.00110	0.0100	ND

Method Blank

Parameter	Unit	DF	Result
Cyanide, Total	mg/L	1.00	ND

Duplicate — Lab ID = 801653-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Cyanide, Total	mg/L	1.00	ND	0.00	0	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0743	0.0800	92.9	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0726	0.0800	90.8	90 - 110

Matrix Spike — Lab ID = 801603-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0629	0.0800(0.0800)	78.6	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0816	0.0800	102	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Cyanide, Total	mg/L	1.00	0.0796	0.0800	99.5	90 - 110

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TKN by SM 4500-Norg B

Batch 05TKN12B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 TKN-Nitrogen	mg/L	05/23/2012	1.00	0.0510	0.500	ND

Method Blank

Parameter	Unit	DF	Result
TKN-Nitrogen	mg/L	1.00	ND

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
TKN-Nitrogen	mg/L	1.00	9.24	10.0	92.4	90 - 110

Lab Control Sample Duplicate

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
TKN-Nitrogen	mg/L	1.00	9.52	10.0	95.2	90 - 110

Gross Alpha by EPA 900.0

Batch 12A-05-D

Parameter	Unit	Analyzed	DF	MDL	RL	Result
801653-001 Gross Alpha	pCi/L	05/24/2012	1.00	0.630	3.00	3.92
Gross Alpha Counting Error	pCi/L	05/24/2012	1.00	1.00	1.00	1.52

Method Blank

Parameter	Unit	DF	Result
Gross Alpha	pCi/L	1.00	ND
Gross Alpha Counting Error	pCi/L	1.00	0.490

Duplicate — Lab ID = 801279-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Gross Alpha	pCi/L	1.00	4.49	4.46	0.670	0 - 20
Gross Alpha Counting Error	pCi/L	1.00	2.88	2.86	0.697	

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Gross Alpha	pCi/L	1.00	13.6	14.6	92.8	80 - 120
Gross Alpha Counting Error	pCi/L	1.00	2.32	0.00		

Matrix Spike — Lab ID = 801279-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Gross Alpha	pCi/L	1.00	156.	150.(146)	104.	75 - 125
Gross Alpha Counting Error	pCi/L	1.00	13.2	2.86(0.00)		

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Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi
Manager, Analytical Services

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TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

REPORT

CH2MHill
154 Grand Avenue, Suite 800
Oakland, CA 94612
Attn: Jennifer Low

Report Date: 05/21/12
Date Received: 05/16/12
Laboratory No.: 801653

Project Number: 423405.GW.FW.SW
Project Name: PGE Hinkley
Sample: One (1) Water Sample

Collection Date: 05/16/12
Analysis Date: 05/17/12 Time: 09:30 Hrs.
Completion Date: 05/19/12 Time: 09:30 Hrs Total Coliform

Investigation: Multiple Tube Fermentation Test for Coliform Group Bacteria APHA Standard Methods for the Examination of Water and Wastewater, 21st Ed., 2005 Method SM 9221B & E, SM 9223B

RESULTS

		Coliform Bacteria Most Probable No./100 ml		
Sample Designation	**Time**	**Total**	**Fecal**	**E.coli**
1. FW-02-025-M05b	14:06	<2*	<2*	<1*

* None Detected

Respectfully submitted,
Truesdail Laboratories, Inc.

P. Abri

Paymon Abri
Microbiologist

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E2 SC

Truesdail Laboratories, Inc.

Total Dissolved Solids by SM 2540 C

Calculations

Batch: 05TDS12G
Date Analyzed: 5/22/12

Laboratory Number	Sample volume, ml	Initial weight,g	1st Final weight,g	2nd Final weight,g	Weight Difference, g	Exceeds 0.5mg? Yes/No	Residue weight,g	Filterable residue, ppm	RL , ppm	Reported Value, ppm	DF
Blank	100	110.7304	110.7307	110.7305	0.0002	No	0.0001	1.0	25.0	ND	1
801584-1	100	68.8405	68.8976	68.8976	0.0000	No	0.0571	571.0	25.0	571.0	1
801584-2	100	69.3457	69.403	69.4028	0.0002	No	0.0571	571.0	25.0	571.0	1
801603-1	100	65.9481	65.982	65.982	0.0000	No	0.0339	339.0	25.0	339.0	1
801603-2	100	67.7749	67.8090	67.8089	0.0001	No	0.0340	340.0	25.0	340.0	1
801603-3	100	67.7169	67.7464	67.7462	0.0002	No	0.0293	293.0	25.0	293.0	1
801603-4	100	68.1028	68.128	68.128	0.0000	No	0.0252	252.0	25.0	252.0	1
801604-1	100	68.0327	68.0815	68.0815	0.0000	No	0.0488	488.0	25.0	488.0	1
801604-3	100	67.4834	67.5118	67.5116	0.0002	No	0.0282	282.0	25.0	282.0	1
801604-4	100	74.7342	74.7598	74.7597	0.0001	No	0.0255	255.0	25.0	255.0	1
801604-5	100	67.7871	67.8183	67.8183	0.0000	No	0.0312	312.0	25.0	312.0	1
801604-5D	100	92.0995	92.1319	92.1319	0.0000	No	0.0324	324.0	25.0	324.0	1
LCS	100	110.3321	110.3823	110.3822	0.0001	No	0.0501	501.0	25.0	501.0	1
801604-6	100	100.6770	100.705	100.705	0.0000	No	0.0280	280.0	25.0	280.0	1
801604-7	100	112.9704	112.9987	112.9987	0.0000	No	0.0283	283.0	25.0	283.0	1
801604-8	100	110.3667	110.4185	110.4182	0.0003	No	0.0515	515.0	25.0	515.0	1
801606	10	47.9638	48.0045	48.0045	0.0000	No	0.0407	4070.0	250.0	4070.0	1
801652-1	50	47.9544	48.0101	48.01	0.0001	No	0.0556	1112.0	50.0	1112.0	1
801652-2	50	46.9976	47.0426	47.0424	0.0002	No	0.0448	896.0	50.0	896.0	1
801652-3	50	51.0745	51.1046	51.1043	0.0003	No	0.0298	596.0	50.0	596.0	1
801652-5	100	115.2361	115.2962	115.2959	0.0003	No	0.0598	598.0	25.0	598.0	1
801652-6	100	103.4165	103.4663	103.4663	0.0000	No	0.0498	498.0	25.0	498.0	1
801653	100	104.2370	104.2648	104.2648	0.0000	No	0.0278	278.0	25.0	278.0	1

Calculation as follows:

Filterable residue (TDS), mg/L = $\left(\frac{A-B}{C}\right) x\ 10^6$

Where:

A = weight of dish + residue in grams.
B = weight of dish in grams.
C = mL of sample filtered.

RL= reporting limit.
ND = not detected (below the reporting limit)

Laboratory Control Sample (LCS) Summary

QC Std I.D.	Measurd Value, ppm	Theoretical Value, ppm	Percent Rec	Acceptance Limit	QC Within Control?
LCS1	501	500	**100.2%**	90-110%	Yes
LCSD					

LCS Recovery

$$P = \left(\frac{LC}{LT}\right) x\ 100$$

P = Percent recovery.
LC = Measured LCS value (ppm).
LT = Theoretical LCS value (ppm).

Duplicate Determinations Difference Summary

Lab Number	Sample Weight, g	Sample Dup Weight, g	% RPD	Acceptance Limit	QC Within Control?
801604-5	0.0312	0.0324	**1.9%**	≤5%	Yes

Duplicate Determination Difference

$$\%\ Difference = \frac{|A \text{ or } B - C|}{C} x\ 100$$

$$where \quad C = \frac{A + B}{2}$$

A = Weght of the first sample in (g).
B = Weght of the second sample in (g).
C = Average weight in (g).

Jenny T.
Analyst Printed Name

Analyst Signature

Hope T.
Reviewer Printed Name

Reviewer Signature

Total Dissolved Solids by SM 2540 C

TDS/EC CHECK

Batch: 05TDS12G
Date Analyzed: 5/22/12

Laboratory Number	EC	TDS/EC Ratio: 0.55-.9	Calculated TDS (EC*0.65)	Measured TDS / Calc TDS <1.3
801584-1	926	0.62	601.9	0.95
801584-2	938	0.61	609.7	0.94
801603-1	521	0.65	338.65	1.00
801603-2	521	0.65	338.65	1.00
801603-3	467	0.63	303.55	0.97
801603-4	416	0.61	270.4	0.93
801604-1	821	0.59	533.65	0.91
801604-3	477	0.59	310.05	0.91
801604-4	477	0.53	310.05	0.82
801604-5	530	0.59	344.5	0.91
801604-5D	530	0.61	344.5	0.94
LCS				
801604-6	421	0.67	273.65	1.02
801604-7	420	0.67	273	1.04
801604-8	795	0.65	516.75	1.00
801606	7320	0.56	4758	0.86
801652-1	1664	0.67	1081.6	1.03
801652-2	1553	0.58	1009.45	0.89
801652-3	1006	0.59	653.9	0.91
801652-5	976	0.61	634.4	0.94
801652-6	820	0.61	533	0.93
801653	432	0.64	280.8	0.99

TRUESDAIL LABORATORIES INC.

Total Suspended Solids by SM 2540 D

Calculations

Batch: 05TSS12~~0~~ FM

Date Analyzed: 05/17/12

Dish Number	Laboratory Number	Sample volume, ml	Initial weight,g	1st Final weight,g	2nd Final weight,g	Weight Difference , g	Exceeds 0.5mg? Yes/No	Residue weight,g	Filterable residue, ppm	RL , ppm	Reported Value, ppm
C69	BLANK	1000	1.4065	1.4065	1.4065	0.0000	No	0.0000	0.0	2.5	ND
C70	801558-1	300	1.3986	1.4361	1.4361	0.0000	No	0.0375	125.0	8.3	125.0
C71	801558-2	300	1.3997	1.4147	1.4147	0.0000	No	0.0150	50.0	8.3	50.0
C72	801558-3	300	1.3942	1.4345	1.4345	0.0000	No	0.0403	134.3	8.3	134.3
C73	801558-3D	300	1.3965	1.4366	1.4366	0.0000	No	0.0401	133.7	8.3	133.7
C74	801564-1	1000	1.3933	1.4014	1.4014	0.0000	No	0.0081	8.1	2.5	8.1
C75	801564-2	1000	1.4062	1.4190	1.419	0.0000	No	0.0128	12.8	2.5	12.8
C76	801564-3	1000	1.4078	1.4175	1.4175	0.0000	No	0.0097	9.7	2.5	9.7
C77	801565	1000	1.4018	1.4018	1.4018	0.0000	No	0.0000	0.0	2.5	ND
C78	801574	900	1.4065	1.4109	1.4109	0.0000	No	0.0044	4.9	2.8	4.9
C79	801575	900	1.4034	1.4040	1.404	0.0000	No	0.0006	0.7	2.8	ND
C80	801576	900	1.4021	1.4043	1.4043	0.0000	No	0.0022	2.4	2.8	ND
C81	801577	900	1.4069	1.4074	1.4074	0.0000	No	0.0005	0.6	2.8	ND
C82	801583	300	1.4052	1.4313	1.4313	0.0000	No	0.0261	87.0	8.3	87.0
C83	801584-1	1000	1.4096	1.4100	1.41	0.0000	No	0.0004	0.4	2.5	ND
C84	801584-2	1000	1.4150	1.4155	1.4155	0.0000	No	0.0005	0.5	2.5	ND
C85	801591	1000	1.4050	1.4050	1.405	0.0000	No	0.0000	0.0	2.5	ND
C86	801601-1	1000	1.4086	1.4189	1.4189	0.0000	No	0.0103	10.3	2.5	10.3
C87	801653	1000	1.4076	1.4076	1.4076	0.0000	No	0.0000	0.0	2.5	ND
C88	801653D	1000	1.4098	1.4098	1.4098	0.0000	No	0.0000	0.0	2.5	ND
C68	LCS-1	100	1.4109	1.4207	1.4207	0.0000	No	0.0098	98.0	25.0	98.0
C69	LCS-2	100	1.4034	1.4131	1.4131	0.0000	No	0.0097	97.0	25.0	97.0

Calculation as follows:

Non- Filterable residue (TSS), mg/L = $\left(\frac{A-B}{C}\right) x\ 10^6$

Where: **A** = weight of dish + residue in grams.
B = weight of dish in grams.
C = mL of sample filtered.

RL= reporting limit.
ND = not detected (below the reporting limit)

Laboratory Control Sample (LCS) Summary

QC Std I.D.	Measurd Value, ppm	Theoretical Value, ppm	Percent Rec	Acceptance Limit	QC Within Control?
LCS1	98	100	98.0%	90-110%	Yes
LCSD	97	100	97.0%	90-110%	Yes

Duplicate Determinations Difference Summary

Lab Number	Sample Weight, g	Sample Dup Weight, g	% RPD	Acceptance Limit	QC Within Control?
801558-3	0.0403	0.0401	0.2%	≤5%	Yes
801653	0	0	#DIV/0!	5%	#DIV/0!

LCS Recovery

$$P = \left(\frac{LC}{LT}\right) x\ 100$$

$$\%\ Difference = \frac{|A\ or\ B - C|}{C}\ x\ 100$$

$$where \quad C = \frac{A+B}{2}$$

A = Weght of the first sample in (g).
B = Weght of the second sample in (g).
C = Average weight in (g).

Gautam S.
Analyst Printed Name

Analyst Signature

Hope T.
Reviewer Printed Name

Reviewer Signature

TRUESDAIL LABORATORIES, INC.

Alkalinity by SM 2320B
Calculations

E2 SC

Analytical Batch:	05ALK12G
Matrix:	Water
Date of Analysis:	5/23/12

Lab ID	Sample pH	Sample Volume (ml)	N of HCL	Titrant Volume to reach pH 8.3	P Alkalinity as CaCO3	Titrant Volume to reach pH 4.5	Total mL titrant to reach pH 0.3 unit lower	Total Alkalinity as CaCO3	RL, ppm	Total Alkalinity Reported Value	HCO3 Conc. as $CaCO_3$ (ppm)	CO3 Alkalinity as $CaCO_3$ (ppm)	OH Alkalinity as $CaCO_3$ (ppm)	Low Alkalinity as $CaCO_3$ (<20ppm)
BLANK	5.09	50	0.02		0.0	0.00		0.0	5	ND	ND	ND	ND	
801653	7.78	50	0.02		0.0	5.50		110.0	5	110.0	110.0	ND	ND	
801670	7.01	50	0.02		0.0	13.55		271.0	5	271.0	271.0	ND	ND	
801734-21	8.25	50	0.02		0.0	3.85		77.0	5	77.0	77.0	ND	ND	
801715	7.74	50	0.02		0.0	5.90		118.0	5	118.0	118.0	ND	ND	
801751-1	7.54	50	0.02		0.0	4.35		87.0	5	87.0	87.0	ND	ND	
801751-2	7.56	50	0.02		0.0	6.30		126.0	5	126.0	126.0	ND	ND	
801751-3	7.33	50	0.02		0.0	5.75		115.0	5	115.0	115.0	ND	ND	
801751-3 DUP	7.29	50	0.02		0.0	5.60		112.0	5	112.0	112.0	ND	ND	
801747-1	7.91	50	0.02		0.0	5.15		103.0	5	103.0	103.0	ND	ND	
801747-2	7.84	50	0.02		0.0	5.10		102.0	5	102.0	102.0	ND	ND	
801747-3	7.80	50	0.02		0.0	5.00		100.0	5	100.0	100.0	ND	ND	
801747-4	7.83	50	0.02		0.0	6.40		128.0	5	128.0	128.0	ND	ND	
801747-5	7.80	50	0.02		0.0	5.75		115.0	5	115.0	115.0	ND	ND	
801747-6	7.93	50	0.02		0.0	6.40		128.0	5	128.0	128.0	ND	ND	
801747-7	7.87	50	0.02		0.0	6.35		127.0	5	127.0	127.0	ND	ND	
801751-3 MS	9.18	50	0.02	1.8	35.0	10.60		212.0	5	212.0	142.0	70	ND	
801751-3 MSD	9.23	50	0.02	1.8	36.0	10.05		201.0	5	201.0	129.0	72	ND	
LCS	10.59	50	0.02	2.5	49.0	4.95		99.0	5	99.0	1.0	98	ND	
LCSD	10.60	50	0.02	2.4	48.0	4.90		98.0	5	98.0	2.0	96	ND	

Calculations as follows:

T or P = $\left(\frac{A \times N \times 50000}{mL\ sample}\right)$

Where:
T = Total Alkalinity, mg CaCO3/L
P = Phenolphthalein Alkalinity, mg CaCO3/L
A = mL standard acid used
N = normality of standard acid

Low Alkalinity: as mg/L CaCO3 = $\frac{(2 \times B - C) \times N \times 50000}{mL\ sample}$

Where:
B = mL titrant to first recorded pH
C = Total mL titrant to reach pH 0.3 unit lower
N = Normality of standard acid

LCS = Laboratory Control Standard/Duplicate
MS/MSD = Matrix Spike/Duplicate
ND = Not Detected (below the reporting limit)

Blank Summary

Reporting Limit, RL	Measured Value, ppm	Accept Limit	QC Within Control?
5 ppm	0	<5	Yes

Laboratory Control Sample (LCS/LCSD) Summary

QC Std I.D.	Measured Value, ppm	Theoretical Value, ppm	%Recovery	Accetance Limit	QC Within Control?
LCS	99	100	99.0%	90-110	Yes
LCSD	98	100	98.0%	90-110	Yes

Duplicate Determination Difference Summary

Lab Number I.D.	Measured Value, ppm	Dup Value, ppm	RPD	Accetance Limit	QC Within Control?
801751-3	115	112	2.6%	≤20%	Yes

Sample Matrix Spike (MS/MSD) Summary

Lab Number	Conc of Unspk spl	Dil Factor	Added Spk Conc	MS/MSD Amt	Measrd Conc of Spk Spl	Theor Conc of Spk Spl	MS/MSD %Rec	MS Accept Limit	QC Within Control?	RPD	RPD Accept Limit	QC Within Control?
801373-3 MS	115	1	100	100	212	215.00	97%	75-125	Yes	2.7%	≤20%	Yes
	115	1	100	100	201	215.00	86%		Yes			

Melissa S.
Analyst Printed Name

Analyst Signature

Hope T.
Reviewer Printed Name

Reviewer Signature

052312g

TRUESDAIL LABORATORIES, INC.

E2 SC

Total Kjeldahl Nitrogen (TKN) by SM 4500-N_{ORG} B

Calculations/Quality Control Data

Date of Analysis: 05/23/12

Analytical Batch: 05TKN12B

Sample Analysis Data							Quality Control Data						
Lab ID	Sample Vol, ml	Titrated Vol, ml	N Acid	Results, TKN, ppm	Reported Value, TKN, ppm	Reporting Limit			Acceptable limit <0.8%	Qc Within control Y/N	Reporting Limit		
Method Blk	500	0.00	0.02	0	ND	<0.5			<0.5	YES	0.5 ppm		
801653	500	0.75	0.02	0.420	ND	<0.5							
801670	250	37.75	0.02	42.301	42.301	1.00							
801696-1	340	1.25	0.02	1.030	1.030	0.74							
801696-2	350	0.15	0.02	0.120	ND	<0.72							
801696-3	400	0.00	0.02	0.000	ND	<0.63							
801696-4	400	0.00	0.02	0.000	ND	<0.63							
801696-5	400	0.00	0.02	0.000	ND	<0.63							
							Theo. Conc. (pm)	Percent Recovery	Acceptable limit 90-110%	Qc Within control Y/N	Relative % Diff.	Acc. Limit 20%	QC Within Control Y/N
LCS	500	16.50	0.02	9.245	9.245	0.50	10	92%	90-110%	YES	3%	<20%	YES
LCSD	500	17.00	0.02	9.525	9.525	0.50	10	95%		YES			
							Sample Conc.		Relative % Diff.		Acceptable Limit		QC Within Control Y/N
DUP											<20%		
MS													
MSD													

$$\text{TKN (mg/L)} = \frac{\text{ml titrant} \times 1000 \times 14.007 \times \text{Normality of Titrant}}{\text{vol of sample}}$$

QC Std I.D.	Lab Number	Conc.of unspiked sample	Dilution Factor	Added Spike Conc.	MS/MSD Amount	Measured Conc. of spiked sample	Theoret. Conc. of spiked sample	MS/MSD% Recovery	Accept. Limits	QC in Control	Relative Percent Difference	Accept. Limits	QC Within Control
MS			1	10.0									
MSD				10.0									

PT0308

Lucie
Analyst Printed Name

Analyst Signature

Htyo
Reviewer Printed Name

Reviewer Signature

Spike Calculations

Lab#	801279-1
Batch ID	12A-05-D
Spike ID	U9V

Volume spike solution (ml)	2
Spike concentration (pCi/ml)	14.60
Volume sample spiked (ml)	200
Sample result (pCi/L)	4.46
Matrix spike result (pCi/L)	155.85

2 ml s	14.6 pCi/ml	14.6 pCi/ml *	2.0	ml	29.2 pCi
sample valu	4.46 pCi/L	4.46 pCi/L *	0.200 L =		0.89 pCi
spike value	155.85 pCi/L	155.85 pCi/L *	0.200 L =		31.17 pCi

recovery = (spike value - sample value)/spike amount

$$=\left(\frac{31.17 \quad -0.89}{29.20}\right) \qquad = \boxed{103.7}$$

RT 5/24/12

NE 5/24/12

Spike Calculations

Lab#	**801284-1**
Batch ID	**12B-05-C**
Spike ID	**CS-2Y**

Volume spike solution (ml)	2
Spike concentration (pCi/ml)	19.32
Volume sample spiked (ml)	250
Sample result (pCi/L)	2.70
Matrix spike result (pCi/L)	159.14

2 ml s	19.32 pCi/ml	19.3 pCi/ml *	2.0	ml	38.6 pCi
sample valu	2.70 pCi/L	2.7 pCi/L *	0.250 L =		0.68 pCi
spike value	159.14 pCi/L	159.14 pCi/L *	0.250 L =		39.79 pCi

recovery = (spike value - sample value)/spike amount

$$=\left(\frac{39.79 \quad -0.68}{38.64}\right) \qquad = \boxed{101.2}$$

BS 5/24/12
NE 5/23/12

RUSH

Rec'd 05/16/12
~~s10d~~ 801653

801653

CH2MHILL

CHAIN OF CUSTODY RECORD

Page 1 OF 1

Project Name: PGE Hinkley
Location: Hinkley
Project Number: 423405.GW.FW.SW
Project Manager: Jennifer Low
Sample Manager: Jim Hanvey
Cell Number: (404) 229-2181
Fax Number: (510) 622-9136
Task Order
Project: 2012-GMP-025-M05B
Turnaround Time: 1 Days
Shipping Date:
COC Number:

Container	250 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly	1000 ml Poly	1000 ml Poly	500 ml Poly	1000 ml Poly	2x100ml Plastic	1000ml Poly	1000ml Poly	1000ml Poly	1000ml Poly
Preservatives	(NH4)2, SO4, NH4, OH, 4ºC	HNO3, 4ºC	HNO3, 4ºC	HNO3, 4ºC	HNO3, 4ºC	HNO3, 4ºC	4ºC	4ºC	4ºC	4ºC	4ºC	4ºC	4ºC	4ºC	4ºC	4ºC	H2SO4, pH<2, 4ºC	H2SO4, pH<2, 4ºC	NAOH/Zn Acetate, 4ºC	H2SO4, 4ºC	Sterile	NAOH	HNO3	HNO3	HNO3, 4ºC
Filtered	Field	Field	Field	NA	NA	NA	NA	NA	NA	Field	NA	NA	NA	Field	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Holding Time (days)	28	180	180	180	180	180	2	2	7	2	2	2	2	7	2	2	28	28	7	2	6 hours	14	180	180	180
SAMPLE ID	Cr(VI) (E218.6) FF	Metals Dissolved (6010BDis) FF Ag,Al,B,Ca,Fe,K,Mg,Mn,Na	Metals Dissolved (6020ADis) FF As,Ba,Cr,Mn,Mo,Ni,V,Zn	Metals (E245.1) Hg	Metals (E200.7) Ag,Al,B,Be,Ca,Co,Cu,Fe,K,Mg,Mn,Na	Metals (E200.8) As,Ba,Cd,Cr,Pb,Mn,Mo,Ni,Se,Sb,Tl,V,Zn	Anions (E300.0) Nitrate as N,Sulfate,Chloride,Bromide,Fluoride	Nitrite (4500-NO2) Nitrite as N	Alkalinity (SM2320B)	Ortho-Phosphate (4500-PE) FF	Conductivity (E120.1)	TSS (E2540D)	TDS (SM2540C)	Soluble Silica (4500Si-D) FF	Turbidity (E180.1)	PH (SM4500HB)	Ammonia(E4500-NH3)	Total Kjeldahl Nitrogen (E4500-Norg)	Sulfide (SM4500 S2)	Total Phosphorous (4500-PE)	Total Coliform (SM9221B/E) Total Coliforms,Fecal,E Coli	Cyanide (E4500-CN)	Gross Alpha (SM7110B)	Gross Beta (E900)	Uranium (E900.8)
FW-02-025-M05b	5/16/12	1400	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ALERT !!
Level III QC

For Sample Conditions
See Form Attached

	Signatures	Date/Time
Approved by	[signature]	5-16-12 1630
Sampled by	[signature]	5-16-12 1630
Relinquished by	[signature]	5-16-12 1630
Received by	B. Dayag	5-16-12 1630
Relinquished by	B. Dayag	5-16-12 1915
Received by	Linda, TLI	5/16/12 19:15

Shipping Details
Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: Truesdail Laboratories Inc
Lab Phone: (714) 730-6239

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding, CA 96001

pH = 2 W/ 2/5

236

Hexavalent Chromium

Method EPA 218.6 and SW 7199 Sample pH Log

Date	Lab Number	Initial pH	Buffer Added (mL)	Final pH	Time Buffered	Initials
5/16/12	801605-3	9.5	N/A	N/A	N/A	GW
	-4					
	-10					
5/16/12	801603-1	9.5	N/A	N/A	N/A	GW
	-2					
	-3					
	-4					
5/16/12	801604-1	9.5	N/A	N/A	N/A	GW
	-2					
	-3					
	-4					
	-5					
	-6					
	-7					
5/16/12	-8					
5/16/12	801606	7	2 mL	9.5	11 Am	GW
5/17/12	801652-1	9.5	N/A	N/A	N/A	MK
	-2					MK
	-3					MK
	-4					MK
	-5					MK
	-6					MK
	801653					MK

C:\My Documents\Templates\Hexavalent Chromium\Cr6+ pH Log

MK
GW 5/18/12

Turbidity/pH Check

Sample Number	Turbidity	pH	Date	Analyst	Need Digest	Adjusted to pH<2 (Y/N)
80 1497	<1	<2	5-10-12	BE	yes	3010A
80 1488		>2			NO	yes 10:15
80 1500	>1	<2			yes	3010A
80 1503 (1-10)	<1	<2			NO	NO
80 1504 (1-10)						
80 1505 (1-10)						
80 1506 (1-143)						
80 1508	<1	<2	5-11-12	BE	NO	NO
80 1513	>1				yes	3010A
80 1525	<1					
80 1527 (1-15)					NO	NO
80 1536 (1-21)	<1	<2	5-14-12	BE	NO	NO
80 1537 (1-21)						
80 1517						
80 1528 (3-12)					yes	3010A
80 1543	<1	<2			NO	NO
80 1546 (1-4					yes	3010A
80 1547						
80 1548 (1-3)		>2				yes 15:00
80 1554		<2			NO	NO
80 1555						
80 1581 (1-2, 4)	<1	>2	5-15-12	BE	NO	yes 14:00
80 1582		>2				14:00
80 1578	>1	<2			yes	3010A
80 1580 (1-37)	<1	>2			NO	yes 20:00
80 1581 (1-104)		<2			NO	NO
T 80 1603 (1-4)	<1	<2	5-16-12	BE	yes	3010A
D 80 1603 (1-4)						
80 1605 (1-11						
80 1604 (193-8)						
T 80 1606		>2				
80 1591		<2			NO	NO
80 1643	<1	<2	5-17-12	BE	NO	NO
80 1652 (1-3, 5-6)	<1				yes	3010A
80 1653 (T, D)						
80 1641 (11-13)					NO	NO
80 1646 (1-33)		>2				yes 18:30
80 1647 (1-15						
80 1647 (1-54)						19:00
80 1649 (1-54)						
80 1669 (1-9)						
80 1675 (1-182)						NO
80 1676 (1-10)						
80 1677 (1-10)						

TRUESDAIL LABORATORIES, INC.

Sample Integrity & Analysis Discrepancy Form

Client: E2 **Lab #** 801653

Date Delivered: 05/16/12 **Time:** 19:15 **By:** ☐Mail ☒Field Service ☐Client

1. Was a Chain of Custody received and signed? ☒Yes ☐No ☐N/A
2. Does Customer require an acknowledgement of the COC? ☐Yes ☐No ☒N/A
3. Are there any special requirements or notes on the COC? ☐Yes ☐No ☒N/A
4. If a letter was sent with the COC, does it match the COC? ☐Yes ☐No ☒N/A
5. Were all requested analyses understood and acceptable? ☒Yes ☐No ☐N/A
6. Were samples received in a chilled condition? ☒Yes ☐No ☐N/A
   Temperature (if yes)? 3.6°C
7. Were samples received intact (i.e. broken bottles, leaks, air bubbles, etc.)? ☒Yes ☐No ☐N/A
8. Were sample custody seals intact? ☐Yes ☐No ☒N/A
9. Does the number of samples received agree with COC? ☒Yes ☐No ☐N/A
10. Did sample labels correspond with the client ID's? ☒Yes ☐No ☐N/A
11. Did sample labels indicate proper preservation? ☒Yes ☐No ☐N/A
    Preserved (if yes) by: ☒**Truesdail** ☐Client
12. Were samples pH checked? pH = See C.O.C. ☒Yes ☐No ☐N/A
13. Were all analyses within holding time at time of receipt? ☒Yes ☐No ☐N/A
    If not, notify Project Manager.
14. Have Project due dates been checked and accepted? ☒Yes ☐No ☐N/A
    Turn Around Time (TAT): ☒ **RUSH** ☐ Std
15. **Sample Matrix:** ☐Liquid ☐Drinking Water ☒Ground Water ☐Waste Water
    ☐Sludge ☐Soil ☐Wipe ☐Paint ☐Solid ☐Other_____
16. Comments: _____
17. Sample Check-In completed by **Truesdail** Log-In/Receiving: Linda

ALERT !! Level III QC

RUSH

C:\Users\Tcsl\Desktop\Forms A - D\Discrp.FormBlank.doc

TRUESDAIL LABORATORIES, INC.
EXCELLENCE IN INDEPENDENT TESTING

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

August 23, 2012

CH2M HILL

Ms. Jennifer Low
155 Grand Ave., Suite 800
Oakland, California 94612

Dear Ms. Low:

SUBJECT: CASE NARRATIVE PG&E HINKLEY PROJECT, 2012-IRZ-028-M07;

TLI NO.: 803025

Truesdail Laboratories, Inc. is pleased to submit this report summarizing the Hinkley 2012-IRZ-028-M07 Project. A summary table for this sample delivery group is included in Section 2. Complete laboratory reports, wet chemistry raw data, quality control data and chain of custody forms are included in Sections 3 and 4. Established Retention Time Window and analytical raw data are included under Section 5.

The samples were received and delivered with the chain of custody on August 2, 2012, intact and in chilled condition. The samples will be kept in a locked refrigerator for 30 days; thereafter they will either be disposed or kept in warm storage for an additional 2 months.

No violations or nonconformance actions occurred for this data package. If you have any questions or require additional information, please contact me at (714) 730-6239 ext. 200.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi,
Manager Analytical Services

Michael Ngo
Quality Assurance/Quality Control Officer

TRUESDAIL LABORATORIES, INC.
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(714) 730-6239 · FAX (714) 730-6462 · www.truesdail.com

Client: CH2M HILL
155 Grand Ave. Suite 800
Oakland, CA 94612
Attention: Jennifer Low

Project Name: PG&E Hinkley Project
Project No.: 423405.GW.FW.SW
P.O. No.: 423405.GW.FW.SW

Laboratory No.: 803025
Date Received: August 2, 2012

Analytical Results Summary

Lab Sample ID	Field ID	Analysis Method	Extraction Method	Sample Date	Sample Time	Parameter	Result	Units	RL
803025-001	FW-02-028-M07	E200.8	NONE	8/2/2012	9:23	Arsenic	1.4	ug/L	0.50
803025-001	FW-02-028-M07	E200.8	NONE	8/2/2012	9:23	Chromium	1.5	ug/L	1.0
803025-001	FW-02-028-M07	E218.6	FLDFLT	8/2/2012	9:23	Chromium, Hexavalent	0.96	ug/L	0.20
803025-001	FW-02-028-M07	E300	NONE	8/2/2012	9:23	Nitrate as N	1.07	mg/L	0.500
803025-001	FW-02-028-M07	SM2540C	NONE	8/2/2012	9:23	Total Dissolved Solids	269	mg/L	25.0
803025-001	FW-02-028-M07	SW6020	FLDFLT	8/2/2012	9:23	Arsenic	1.5	ug/L	0.50
803025-001	FW-02-028-M07	SW6020	FLDFLT	8/2/2012	9:23	Chromium	1.3	ug/L	1.0
803025-002	FW-01-028-M07	E200.8	NONE	8/2/2012	10:50	Arsenic	2.3	ug/L	0.50
803025-002	FW-01-028-M07	E200.8	NONE	8/2/2012	10:50	Chromium	1.8	ug/L	1.0
803025-002	FW-01-028-M07	E218.6	FLDFLT	8/2/2012	10:50	Chromium, Hexavalent	0.85	ug/L	0.20
803025-002	FW-01-028-M07	E300	NONE	8/2/2012	10:50	Nitrate as N	0.989	mg/L	0.500
803025-002	FW-01-028-M07	SM2540C	NONE	8/2/2012	10:50	Total Dissolved Solids	244	mg/L	25.0
803025-002	FW-01-028-M07	SW6020	FLDFLT	8/2/2012	10:50	Arsenic	1.3	ug/L	0.50
803025-002	FW-01-028-M07	SW6020	FLDFLT	8/2/2012	10:50	Chromium	1.4	ug/L	1.0

ND: Non Detected (below reporting limit)
mg/L: Milligrams per liter.
Note: The following "Significant Figures" rule has been applied to all results:
Results below 0.01ppm will have two (2) significant figures.
Result above or equal to 0.01ppm will have three (3) significant figures.
Quality Control data will always have three (3) significant figures.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

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www.truesdail.com

REPORT

Client: **CH2MHill**
155 Grand Avenue, Suite 800
Oakland, CA 94612
Attention: Jennifer Low
Project Name: PG&E Hinkley Project
Project Number: 423405.GW.FW.SW
P.O. Number: 423405.GW.FW.SW
Release Number:

Laboratory No. 803025

Printed 8/23/2012

Samples Received on 8/2/2012 8:00:00 PM

Field ID	Lab ID	Collected	Matrix
FW-02-028-M07	803025-001	08/02/2012 09:23	Water
FW-01-028-M07	803025-002	08/02/2012 10:50	Water

Anions By I.C. - EPA 300.0 Batch 08AN12C

Parameter	Unit	Analyzed	DF	MDL	RL	Result
803025-001 Nitrate as Nitrogen	mg/L	08/03/2012 15:02	1.00	0.0270	0.500	1.07
803025-002 Nitrate as Nitrogen	mg/L	08/03/2012 15:36	1.00	0.0270	0.500	0.989

Method Blank

Parameter	Unit	DF	Result
Chloride	mg/L	1.00	ND
Fluoride	mg/L	1.00	ND
Sulfate	mg/L	1.00	ND
Nitrate as Nitrogen	mg/L	1.00	ND

Duplicate — Lab ID = 803005-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Chloride	mg/L	25.0	66.3	66.6	0.421	0 - 20
Fluoride	mg/L	1.00	0.441	0.440	0.227	0 - 20
Sulfate	mg/L	25.0	94.1	94.3	0.166	0 - 20
Nitrate as Nitrogen	mg/L	5.00	8.15	8.18	0.380	0 - 20

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chloride	mg/L	1.00	3.95	4.00	98.8	90 - 110
Fluoride	mg/L	1.00	4.13	4.00	103.	90 - 110
Sulfate	mg/L	1.00	20.4	20.0	102.	90 - 110
Nitrate as Nitrogen	mg/L	1.00	4.04	4.00	101.	90 - 110

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Chrome VI by EPA 218.6

Batch 08CrH12M

Parameter	Unit	Analyzed	DF	MDL	RL	Result
803025-001 Chromium, Hexavalent	ug/L	08/10/2012 15:10	1.00	0.0260	0.20	0.96
803025-002 Chromium, Hexavalent	ug/L	08/10/2012 15:20	1.00	0.0260	0.20	0.85

Method Blank

Parameter	Unit	DF	Result
Chromium, Hexavalent	ug/L	1.00	ND

Duplicate

Lab ID = 802944-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	2.49	2.53	1.68	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.192	0.200	96.2	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	4.71	5.00	94.3	90 - 110

Matrix Spike

Lab ID = 802944-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	7.99	7.53(5.00)	109.	90 - 110

Matrix Spike

Lab ID = 802944-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.12	9.45(5.00)	93.4	90 - 110

Matrix Spike

Lab ID = 802944-003

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	0.924	1.00(1.00)	92.4	90 - 110

Matrix Spike

Lab ID = 802944-004

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.69	1.75(1.00)	94.4	90 - 110

Matrix Spike

Lab ID = 802944-005

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	6.36	6.56(5.00)	96.0	90 - 110

Matrix Spike

Lab ID = 802944-006

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.81	1.87(1.00)	93.7	90 - 110

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Matrix Spike — Lab ID = 803005-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.51	1.57(1.00)	93.6	90 - 110

Matrix Spike — Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.86	1.96(1.00)	90.2	90 - 110

Matrix Spike — Lab ID = 803025-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.78	1.85(1.00)	93.9	90 - 110

Matrix Spike — Lab ID = 803047-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.27	1.35(1.00)	91.6	90 - 110

Matrix Spike — Lab ID = 803047-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.56	1.63(1.00)	92.6	90 - 110

Matrix Spike — Lab ID = 803083-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	15.5	16.2(10.0)	93.1	90 - 110

Matrix Spike — Lab ID = 803084-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	1.08	1.18(1.00)	90.9	90 - 110

Matrix Spike — Lab ID = 803084-002

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	50.0	1440	1480(750.)	95.4	90 - 110

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	4.71	5.00	94.2	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.83	10.0	98.3	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.89	10.0	98.9	95 - 105

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium, Hexavalent	ug/L	1.00	9.83	10.0	98.3	95 - 105

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Metals by EPA 6020A, Dissolved

Batch 081912B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
803025-001 Arsenic	ug/L	08/20/2012 02:16	5.00	0.265	0.50	1.5
Chromium	ug/L	08/20/2012 02:16	5.00	0.195	1.0	1.3
803025-002 Chromium	ug/L	08/20/2012 03:06	5.00	0.195	1.0	1.4

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND
Chromium	ug/L	1.00	ND

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.121	0.100	121	70 - 130
Chromium	ug/L	1.00	0.210	0.200	105.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	95.2	100.	95.2	85 - 115
Chromium	ug/L	5.00	93.5	100.	93.5	85 - 115

Matrix Spike

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	5.00	100.	101.(100.)	98.6	75 - 125
Chromium	ug/L	5.00	100.	101.(100.)	98.9	75 - 125

Matrix Spike Duplicate

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	5.00	102.	101.(100.)	101.	75 - 125
Chromium	ug/L	5.00	102.	101.(100.)	101.	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.53	10.0	95.3	90 - 110
Chromium	ug/L	1.00	9.37	10.0	93.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.85	10.0	98.5	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	10.00	10.0	100.0	90 - 110

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Metals by EPA 6020A, Dissolved

Batch 082212A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
803025-002 Arsenic	ug/L	08/22/2012 22:54	5.00	0.265	0.50	1.3

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND

Duplicate

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Arsenic	ug/L	5.00	1.08	1.16	7.33	0 - 20

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.0751	0.100	75.1	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	88.0	100.	88.0	85 - 115

Matrix Spike

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	5.00	90.3	101.(100.)	89.2	75 - 125

Matrix Spike Duplicate

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	5.00	95.1	101.(100.)	93.9	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	10.2	10.0	102.	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.51	10.0	95.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.61	10.0	96.1	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.58	10.0	95.8	90 - 110

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Metals by EPA 200.8, Total

Batch 081912B

Parameter	Unit	Analyzed	DF	MDL	RL	Result
803025-001 Arsenic	ug/L	08/20/2012 05:00	5.00	0.265	0.50	1.4
Chromium	ug/L	08/20/2012 05:00	5.00	0.195	1.0	1.5
803025-002 Arsenic	ug/L	08/20/2012 05:28	5.00	0.265	0.50	2.3
Chromium	ug/L	08/20/2012 05:28	5.00	0.195	1.0	1.8

Method Blank

Parameter	Unit	DF	Result
Arsenic	ug/L	1.00	ND
Chromium	ug/L	1.00	ND

Low Level Calibration Verification

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	0.121	0.100	121	70 - 130
Chromium	ug/L	1.00	0.210	0.200	105.	70 - 130

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	5.00	95.2	100.	95.2	85 - 115
Chromium	ug/L	5.00	93.5	100.	93.5	85 - 115

Matrix Spike

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	5.00	103.	101.(100.)	102.	75 - 125
Chromium	ug/L	5.00	101.	101.(100.)	99.4	75 - 125

Matrix Spike Duplicate

Lab ID = 803025-001

Parameter	Unit	DF	Result	Expected/Added	Recovery	Acceptance Range
Arsenic	ug/L	5.00	102.	101.(100.)	101.	75 - 125
Chromium	ug/L	5.00	101.	101.(100.)	99.9	75 - 125

MRCCS - Secondary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.53	10.0	95.3	90 - 110
Chromium	ug/L	1.00	9.37	10.0	93.7	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.66	10.0	96.6	90 - 110

MRCVS - Primary

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Arsenic	ug/L	1.00	9.85	10.0	98.5	90 - 110

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Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.94	10.0	99.4	80 - 120

Interference Check Standard AB

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Chromium	ug/L	1.00	9.52	10.0	95.2	80 - 120

Total Dissolved Solids by SM 2540 C

Batch 08TDS12A

Parameter	Unit	Analyzed	DF	MDL	RL	Result
803025-001 Total Dissolved Solids	mg/L	08/03/2012	1.00	0.757	25.0	269
803025-002 Total Dissolved Solids	mg/L	08/03/2012	1.00	0.757	25.0	244

Method Blank

Parameter	Unit	DF	Result
Total Dissolved Solids	mg/L	1.00	ND

Duplicate — Lab ID = 802952-001

Parameter	Unit	DF	Result	Expected	RPD	Acceptance Range
Total Dissolved Solids	mg/L	1.00	201	217	7.66	0 - 10

Lab Control Sample

Parameter	Unit	DF	Result	Expected	Recovery	Acceptance Range
Total Dissolved Solids	mg/L	1.00	486	500.	97.2	90 - 110

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

for Mona Nassimi
Manager, Analytical Services

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Truesdail Laboratories.

E2 SC

Truesdail Laboratories, Inc.

Total Dissolved Solids by SM 2540 C

Calculations

Batch: 08TDS12A
Date Analyzed: 8/1/12

Laboratory Number	Sample volume, ml	Initial weight,g	1st Final weight,g	2nd Final weight,g	Weight Difference, g	Exceeds 0.5mg? Yes/No	Residue weight,g	Filterable residue, ppm	RL , ppm	Reported Value, ppm	DF
Blank	100	66.8065	66.8069	66.8065	0.0004	No	0.0000	0.0	25.0	ND	1
802908-2	50	67.1949	67.2492	67.2486	0.0006	Yes	0.0537	1074.0	50.0	1074.0	1
802909-1	20	51.1887	51.2435	51.2434	0.0001	No	0.0547	2735.0	125.0	2735.0	1
802909-2	100	73.1844	73.2117	73.2115	0.0002	No	0.0271	271.0	25.0	271.0	1
802910-9	50	69.3427	69.3964	69.396	0.0004	No	0.0533	1066.0	50.0	1066.0	1
802912-10	100	76.6765	76.7109	76.7108	0.0001	No	0.0343	343.0	25.0	343.0	1
802941	10	49.6817	49.7231	49.7228	0.0003	No	0.0411	4110.0	250.0	4110.0	1
802944-1	20	50.4955	50.5700	50.5700	0.0000	No	0.0745	3725.0	125.0	3725.0	1
802945-2	100	75.2054	75.2423	75.2423	0.0000	No	0.0369	369.0	25.0	369.0	1
802945-5	20	68.0107	68.0624	68.0622	0.0002	No	0.0515	2575.0	125.0	2575.0	1
802952-1	100	65.6679	65.6896	65.6896	0.0000	No	0.0217	217.0	25.0	217.0	1
802952-1D	100	67.2198	67.2399	67.2399	0.0000	No	0.0201	201.0	25.0	201.0	1
LCS	100	69.5103	69.5589	69.5589	0.0000	No	0.0486	486.0	25.0	486.0	1
802939-1	450	109.0651	109.0669	109.0669	0.0000	No	0.0018	4.0	5.6	ND	1
802939-2	440	109.9028	109.9029	109.9028	0.0001	No	0.0000	0.0	5.7	ND	1
802857	50	74.7263	74.8179	74.8177	0.0002	No	0.0914	1828.0	50.0	1828.0	1
802973-1	50	69.4163	69.4536	69.4532	0.0004	No	0.0369	738.0	50.0	738.0	1
802973-2	20	74.7090	74.7731	74.7728	0.0003	No	0.0638	3190.0	125.0	3190.0	1
802973-3	100	67.7103	67.7261	67.7259	0.0002	No	0.0156	156.0	25.0	156.0	1
802994	50	75.4466	75.52	75.5199	0.0001	No	0.0733	1466.0	50.0	1466.0	1
803005	100	71.3111	71.3609	71.3608	0.0001	No	0.0497	497.0	25.0	497.0	1
803025-1	100	76.5108	76.5381	76.5377	0.0004	No	0.0269	269.0	25.0	269.0	1
803025-2	100	76.5478	76.5725	76.5722	0.0003	No	0.0244	244.0	25.0	244.0	1

Calculation as follows:

Filterable residue (TDS), mg/L = $\left(\frac{A-B}{C}\right) x\ 10^6$

Where:

A = weight of dish + residue in grams.
B = weight of dish in grams.
C = mL of sample filtered.

RL= reporting limit.
ND = not detected (below the reporting limit)

Laboratory Control Sample (LCS) Summary

QC Std I.D.	Measurd Value, ppm	Theoretical Value, ppm	Percent Rec	Acceptance Limit	QC Within Control?
LCS1	486	500	97.2%	90-110%	Yes
LCSD					

LCS Recovery

$$P = \left(\frac{LC}{LT}\right) x\ 100$$

P = Percent recovery.
LC = Measured LCS value (ppm).
LT = Theoretical LCS value (ppm).

Duplicate Determinations Difference Summary

Lab Number	Sample Weight, g	Sample Dup Weight, g	% RPD	Acceptance Limit	QC Within Control?
802952-1	0.0217	0.0201	3.8%	≤5%	Yes

Duplicate Determination Difference

$$\%\ Difference = \frac{|A \text{ or } B - C|}{C} x\ 100$$

$$where \quad C = \frac{A+B}{2}$$

A = Weght of the first sample in (g).
B = Weght of the second sample in (g).
C = Average weight in (g).

Jenny T.
Analyst Printed Name

Analyst Signature

FOR
Hope T.
Reviewer Printed Name

Reviewer Signature

WetChem TDS_2012.xls

Total Dissolved Solids by SM 2540 C

TDS/EC CHECK

Batch: 08TDS12A
Date Analyzed: 8/1/12

Laboratory Number	EC	TDS/EC Ratio: 0.55-.9	Calculated TDS (EC*0.65)	Measured TDS / Calc TDS <1.3
802908-2	1678	0.64	1090.7	0.98
802909-1	4160	0.66	2704	1.01
802909-2	465	0.58	302.25	0.90
802910-9	1685	0.63	1095.25	0.97
802912-10	560	0.61	364	0.94
802941	7400	0.56	4810	0.85
802944-1	5230	0.71	3399.5	1.10
802945-2	616	0.60	400.4	0.92
802945-5	3900	0.66	2535	1.02
802952-1	365	0.59	237.25	0.91
802952-1D	365	0.55	237.25	0.85
LCS				
802939-1	24.5	ND	15.925	ND
802939-2	4	ND	2.6	ND
802857	2910	0.63	1891.5	0.97
802973-1	1280	0.58	832	0.89
802973-2	4890	0.65	3178.5	1.00
802973-3	284	0.55	184.6	0.85
802994	2310	0.63	1501.5	0.98
803005	813	0.61	528.45	0.94
803025-1	428	0.63	278.2	0.97
803025-2	443	0.55	287.95	0.85

CH2MHILL

CHAIN OF CUSTODY RECORD

803 025

Project Name PGE Hinkley
Location Hinkley
Project Number 423405.GW.FW.SW
Project Manager Jennifer Low
Sample Manager Jim Hanvey
Cell Number (404) 229-2181
Fax Number (510) 622-9136
Task Order
Project 2012-IRZ-028-M07
Turnaround Time 10 Days
Shipping Date:
COC Number:

Container:	250 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	1000ml Poly	1000ml Poly
Preservatives:	(NH4)2, SO4, NH4, OH, 4°C	HNO3, 4°C	HNO3, 4°C	HNO3, 4°C	4°C	4°C
Filtered:	Field	Field	NA	NA	NA	NA
Holding Time (days):	28	180	180	180	2	2
	Cr(VI) (E218.6) FF	Metals Dissolved (6020ADis) FF Chromium,Arsenic	Metals (E200.8) Chromium	Metals (E200.8) Chromium,Arsenic	Anions (E300.0) Nitrate	TDS (SM2540C)

ALERT! Level III QC

	SAMPLE ID	DATE	TIME	Matrix	Cr(VI) (E218.6) FF	Metals Dissolved (6020ADis) FF Chromium,Arsenic	Metals (E200.8) Chromium	Metals (E200.8) Chromium,Arsenic	Anions (E300.0) Nitrate	TDS (SM2540C)	Number of Containers	COMMENTS
-1	FW-02-028-M07	8/2/12	0923	GW	X	X		X	X	X	4	6 pH=2
-2	FW-01-028-M07	8/2/12	1050	GW	X	X		X	X	X	4	6020A
											TOTAL NUMBER OF CONTAINERS	8

For Sample Collection
See Form Attached

	Signatures	Date/Time
Approved by	[signature]	08/2/12 1630
Sampled by	Ryan Prevost	8/2/12
Relinquished by	[signature]	8/2/12
Received by	Jeff Lee [signature]	8/2/12 1648
Relinquished by	[signature]	8/2/12
Received by	Leuth, TJ	8/2/12 2000

Shipping Details
Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: Truesdail Laboratories Inc
Lab Phone: (714) 730-6239

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding, CA 96001

0148

Hexavalent Chromium

Method EPA 218.6 and SW 7199 Sample pH Log

Date	Lab Number	Initial pH	Buffer Added (mL)	Final pH	Time Buffered	Initials
8/1/12	802944-4	9.5	N/A	N/A	N/A	MG
	-5					
	-6					
	802945-1					
	-2					
	-3					
	-4					
	-5					
	-6					
	-7					
	-8					
08/01/12	802961	7	2 ml	9.5	9:00 AM	HAV
8/1/12	802964-1	7	2mL	9.5	18:00	MG
8/2/12	802964-2	7	1 mL	9.5	8:00	MG
	-3				8:10	
	-4				8:20	
8/2/12	802970	9.5	N/A	N/A	N/A	[illegible]
	802971-1					
	-2					
8/2/12	~~802977~~					
8/2/12	802972-1	9.5	N/A	N/A	N/A	[illegible]
	-2					
	-3					
8/3/12	803025-1	9.5	N/A	N/A	N/A	HAV
	-2					
8/7/12	803047-1	9.5	N/A	N/A	N/A	HAV
	-2					
8/7/12	803082-1	7	1 mL	9.5	20:30	MG
	-2				20:35	
08/08/12	803083-~~2~~ 1	7	2 ml	9.5	9:00 AM	HAV

HAV ~~08/08/12~~ 08/14/12

C:\My Documents\Templates\Hexavalent Chromium\Cr6+ pH Log

[illegible] 8/14/12 [illegible]

TRUESDAIL LABORATORIES, INC.

Turbidity/pH Check

Sample Number	Turbidity	pH	Date	Analyst	Need Digest	pH2-Adjusted Time	Date/Time of 2nd pH check	Comments
802889 (1-2, 4-5)	<1	<2	7-30-12	BE	3010A	NO		
802895 (1-2, 4)	<1	>2	↓	↓	NO	14:30		
802908 (1-2)	<1	<2	7-31-12	BE	3010A			
802909 (1-2	<1							
802910 (1-3, 5-9)								
802911 (1-8, 10)								
802912 (1, 3-11)								
802913 (1-4)								
802906	>1							
802907								
802918-2								
802919								
802920								
802921								
802922								
802923								
802924								
X 802941	<1	>2	8-1-12	BE	3010A	11:00	~~7-18 Turbidity >1~~ ~~8-3-12 13 pH<2~~ BE	
802942 (1-8)		<2						
802943 (1-9)								
802944 (1-2, 4-6)								
802945 (1-6, 8)								
802931		>2			NO	11:30	8-3 pH<2 BE	
802939 (1-2)							8-3 pH<2 BE	
802947 (1-2)								
802970	<1	<2	8-2-12	BE	3010A			
802971 (1-2)								
802972 (1-3)								
802951 (10-12)		>2			NO	8:30		
802989	>1				3010A	13:00		
802973	<1				NO		8/7/12 16:10	pH <2
802961 (1-3						15:00	8/7/12 16:10	pH <2
802966 (1-30)							1-12 8-3 pH<2 BE	
803004 (1-6)	<1	<2	8-3-12	BE	3010A			
803005								
803002	>1							
802994								
803022								
803021		>2				13:30		
D T 803025 (1-2)	<1	<2						
803028	>1	<2	8-5-12	BE	3010A			
803041 (17-24)	<1	>2	8-7-12	BE	NO	12:30		
803045	>1	<2			3010A			
803046								

Notes:
1. Samples should be analyzed after 24 hrs of pH adjustment to pH2 for Dissolved Analytes.
2. All Total Recoverable Analytes must be pH adjusted and digested.
3. Do not use disposable pipette to measure pH; pour a little amount of sample from the bottle.

TRUESDAIL LABORATORIES, INC.

Sample Integrity & Analysis Discrepancy Form

Client: E2 **Lab #** 803025

Date Delivered 08 / 02 / 12 **Time:** 20:00 **By:** ☐ Mail ☒ Field Service ☐ Client

1. Was a Chain of Custody received and signed? ☒ Yes ☐ No ☐ N/A
2. Does Customer require an acknowledgement of the COC? ☐ Yes ☐ No ☒ N/A
3. Are there any special requirements or notes on the COC? ☐ Yes ☐ No ☒ N/A
4. If a letter was sent with the COC, does it match the COC? ☐ Yes ☐ No ☒ N/A
5. Were all requested analyses understood and acceptable? ☒ Yes ☐ No ☐ N/A
6. Were samples received in a chilled condition? ☒ Yes ☐ No ☐ N/A
   Temperature (if yes)? 4.5°C
7. Were samples received intact (i.e. broken bottles, leaks, air bubbles, etc..)? ☒ Yes ☐ No ☐ N/A
8. Were sample custody seals intact? ☒ Yes ☐ No ☐ N/A
9. Does the number of samples received agree with COC? ☒ Yes ☐ No ☐ N/A
10. Did sample labels correspond with the client ID's? ☒ Yes ☐ No ☐ N/A
11. Did sample labels indicate proper preservation? ☒ Yes ☐ No ☐ N/A
    Preserved (if yes) by: ☒ Truesdail ☐ Client
12. Were samples pH checked? pH = See C.O.C ☒ Yes ☐ No ☐ N/A
13. Were all analyses within holding time at time of receipt? ☒ Yes ☐ No ☐ N/A
    If not, notify Project Manager.
14. Have Project due dates been checked and accepted? ☒ Yes ☐ No ☐ N/A
    Turn Around Time (TAT): ☐ RUSH ☒ Std
15. **Sample Matrix:** ☐ Liquid ☐ Drinking Water ☒ Ground Water ☐ Waste Water
    ☐ Sludge ☐ Soil ☐ Wipe ☐ Paint ☐ Solid ☐ Other _____
16. Comments: _____
17. Sample Check-In completed by Truesdail Log-In/Receiving: Linda Stabenow

ALERT !!
Level III QC

C:\Users\Tes\Desktop\Forms A - D\Discrp.FormBlank.doc

eurofins | Eaton Analytical
formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Truesdail Laboratories, Inc.
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
09/25/2012
EUROFINS EATON
ANALYTICAL

NELAP ACCREDITED TNI LABORATORY
01114CA

Report: 404386
Project: BARSTOW
Group: Well Test

DST: David S Tripp

Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

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formerly MWH Laboratories

Acknowledgement of Samples Received

Addr: **CH2M-Hill**
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831

Client ID: TRUESDAIL-CA
Folder #: 404386
Project: BARSTOW
Sample Group: Well Test
Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **August 03, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201208030246	FW-02-028-M07	08/02/2012 0923

Surfactants	Apparent Color	Odor at 60 C (TON)
@2378-TCDD_Dioxin	@525PLUS	@551_EDB-DBCP
@ACRYLAM	@DIOXANE	@DIQUAT
@FORMAL556	@H3EDD	@ML505
@ML515.4	@ML521_NDMEP	@ML531.2
@R226EDD	@R228EDD	@SR90EDD
@TCP-524	@VOASDWA	@VOA-TBA
Asbestos by TEM - >10 microns	Chlorate by IC	Data Package
EDT	Endothall	Ethylene glycol by EPA 8015M
Explosives by LCMS	Giardia and Cryptosporidium	Glyphosate
Perchlorate	RUSH	

201208030248	FW-01-028-M07	08/02/2012 1050

Surfactants	Apparent Color	Odor at 60 C (TON)
@2378-TCDD_Dioxin	@525PLUS	@551_EDB-DBCP
@ACRYLAM	@DIOXANE	@DIQUAT
@FORMAL556	@H3EDD	@ML505
@ML515.4	@ML521_NDMEP	@ML531.2
@R226EDD	@R228EDD	@SR90EDD
@TCP-524	@VOASDWA	@VOA-TBA
Asbestos by TEM - >10 microns	Chlorate by IC	EDT
Endothall	Ethylene glycol by EPA 8015M	Explosives by LCMS
Giardia and Cryptosporidium	Glyphosate	Perchlorate
RUSH		

201208030249	FW-02-028-M07 TB	08/02/2012 0800

@551_EDB_DBCP TB	@VOASDWA TB	@VOA-TBA TB
EDT	RUSH	

201208030250	FW-01-028-M07 TB	08/02/2012 0800

@551_EDB_DBCP TB	@VOASDWA TB	@VOA-TBA TB
EDT	RUSH	

Test Description

@2378-TCDD_Dioxin -- 2,3,7,8-TCDD_Dioxin

@525PLUS -- Semivolatiles by GCMS

@551_EDB_DBCP TB -- EDB/DBCP/HAN by EPA 551.1

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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Acknowledgement of Samples Received

Addr: **CH2M-Hill**
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831

Client ID: TRUESDAIL-CA
Folder #: 404386
Project: BARSTOW
Sample Group: Well Test
Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **August 03, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
	@551_EDB-DBCP -- EDB/DBCP/HAN by EPA 551.1	
	@ACRYLAM -- Acrylamide	
	@DIOXANE -- 1,4-Dioxane	
	@DIQUAT -- Diquat and Paraquat	
	@FORMAL556 -- EPA Method 556	
	@H3EDD -- Total Tritium (Sub)	
	@ML505 -- Organochlorine Pesticides/PCBs	
	@ML515.4 -- Chlorophenoxy Herbicides	
	@ML521_NDMEP -- Nitrosamines by GCMS	
	@ML531.2 -- Aldicarbs	
	@R226EDD -- Radium 226 (Sub)	
	@R228EDD -- Radium 228 (Sub)	
	@SR90EDD -- Total Strontium-90 (sub)	
	@TCP-524 -- 1,2,3-Trichloropropane (SIM)	
	@VOASDWA -- Volatile Organics by GCMS	
	@VOASDWA TB -- Volatile Organics by GCMS	
	@VOA-TBA -- TBA by EPA 524.2 Modified	
	@VOA-TBA TB -- TBA by EPA 524.2 Modified	

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M. DEANEJA EEA
8-3-12 0930

TEMP 2-3°C
WET ICE

404386

CH2MHILL

CHAIN OF CUSTODY RECORD

Project Name: PGE Hinkley
Location: Hinkley
Project Number: 423405.GW.FW.SW
Project Manager: Jennifer Low
Sample Manager: Jim Hanvey
Cell Number: (404) 229-2181
Fax Number: (510) 622-9136
Task Order
Project: 2012-IRZ-028-M07
Turnaround Time: 10 Days
Shipping Date:
COC Number:

Analysis	Container	Preservatives	Filtered	Holding Time (days)
MBAS (SM5540C)	1000ml Poly	4°C	NA	2
Radium 226 (7500Ra-C/903.1)	2x1000 ml Poly	HNO3	NA	6 months
Radium 228 (7500Ra-D/904)	2x1000 ml Poly	HNO3	NA	6 months
Tritium (E906)	1L Amber	4°C	NA	NA
Aldehydes (E556)	3x40 ml Amber	20mg NH4Cl + 20 mg CuSO4	NA	14
Asbestos (E100.1)	1000ml Poly	4°C	NA	2
Glyphosate (E547)	125ml Amber	4°C	NA	14
Color (SM2120B)	1000ml Poly	4°C	NA	ASAP
Odor (SM2150B)	1000ml Poly	4°C	NA	ASAP
Chlorate (E300.0)	125ml Poly	EDA; 4°C	NA	28
Carbamates (E531.1)	2x40ml Amber	KH2citrate + thioSO4; 4°C	NA	None
Chlorinated Acids (E515.4)	2x125ml Amber	7 mg SULFITEx ls; 4°C	NA	14
Dioxin (E1613)	2x1liter Amber	4°C	NA	30
Diquat (E549.2)	1liter Amber	4°C	NA	7
EDP/DBCP (E551.1)	3x60ml Amber	EDB+NH4 Cl; 4°C	NA	7
Endothall (E548.1)	250 Amber	4°C	NA	7
Explosives (E529)	2x40ml Amber	thio; 4°C	NA	None
TBA (E524.2)	4x40ml Amber	HCL; 4°C	NA	14
Giardia/Cryptosporidium (E1623)	1liter Poly	4°C	NA	None
Ethylene Glycol (SW8270Mod)	1liter Amber	4°C	NA	7
1,4-Dioxane (E522Mod)	2x1liter Amber	Nabisulfate; 4°C	NA	7
Nitrosamines (E521)	2x1liter Amber	80-100mg Sodium Thiosulfat	NA	28
1,2,3-TCP (E524.2)	3x40ml Amber	HCL; 4°C	NA	14
VOCs (E524.2)	3x40ml Amber	HCL; 4°C	NA	14

SAMPLE ID	DATE	TIME	Matrix	MBAS (SM5540C)	Radium 226 (7500Ra-C/903.1)	Radium 228 (7500Ra-D/904)	Tritium (E906)	Aldehydes (E556)	Asbestos (E100.1)	Glyphosate (E547)	Color (SM2120B)	Odor (SM2150B)	Chlorate (E300.0)	Carbamates (E531.1)	Chlorinated Acids (E515.4)	Dioxin (E1613)	Diquat (E549.2)	EDP/DBCP (E551.1)	Endothall (E548.1)	Explosives (E529)	TBA (E524.2)	Giardis/Cryptosporidium (E1623)	Ethylene Glycol (SW8270Mod)	1,4-Dioxane (E522Mod)	Nitrosamines (E521)	1,2,3-TCP (E524.2)	VOCs (E524.2)	Number of Containers
~~FW-02-028-MW07~~	~~8/2/12~~	~~0923~~	~~GW~~	(R)																								
~~FW-01-028-MW07~~				(R)																								
FW-02-028-M07	8/2/12	0923	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	40
FW-01-028-M07	8/2/12	1050	GW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	40
Lab Trip Blank	8/2/12																											6
Lab Trip Blank	8/2/12																											6

rec'd by LHD
08/03/12
1125

TOTAL NUMBER OF CONTAINERS: 92

	Signatures	Date/Time
Approved by	[signature]	08/2/12 1630
Sampled by	Ryan Prevost	8/2/12 1600
Relinquished by	[signature]	8/2/12 1630
Received by	Jeff Lee	8/2/12 1648
Relinquished by		
Received by	Linda, TLI	8/2/12 20:00

Shipping Details
Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: MWH
Lab Phone:

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding, CA 96001

Rel-shed: TLI, Shakunira 8/3/12 8:05am [signature] 8-3-12 8:05

CH2MHILL

Includes 125 ml unpreserved 1L poly HNO3

CHAIN OF CUSTODY RECORD

Project Name PGE Hinkley
Location Hinkley
Project Number 423405.GW.FW.SW
Project Manager Jennifer Low
Sample Manager Jim Hanvey
Cell Number (404) 229-2181
Fax Number (510) 622-9136
Task Order
Project 2012-IRZ-028-M07
Turnaround Time 10 Days
Shipping Date:
COC Number:

Container:	1liter Poly	2x1L Amber	4x40ml Amber	125ml Ploy
Preservatives:	HNO3; 4°C 125 ml poly	6°C	Thio;4°C	4°C
Filtered:	NA	NA	NA	NA
Holding Time (days):	180	7	7	28
	Strontium 90 (E905.0)	Pesticides/SOCs (E525.2) extended list	PCB/Toxaphene/Chlordane (E505)	Perchlorate (E314.0)

SAMPLE ID	DATE	TIME	Matrix	Strontium 90 (E905.0)	Pesticides/SOCs (E525.2) extended list	PCB/Toxaphene/Chlordane (E505)	Perchlorate (E314.0)	Number of Containers	Comments
FW-01-028-M07	8/2/12	0923	GW	X	X	X	X	9	
FW-02-028-M07	8/2/12	1050	GW	X	X	X	X	9	
							TOTAL NUMBER OF CONTAINERS	18	

	Signatures	Date/Time
Approved by	Evelyn	08/02/12 1630
Sampled by	Ryan Rewos	8/2/12 1600
Relinquished by		8/2/12 1630
Received by	Jeff Lee	8/2/12 1648
Relinquished by		
Received by	Lauler, TLI	~~8/2/12 20:00~~

Rel-shed by TLI, Shaburine 8/5/12 08:05am 8-3-12 8:05

Shipping Details
Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: NWH
Lab Phone:

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding CA 96001

MONTGOMERY WATSON COOLER RECEIPT FORM

PROJECT: TRUESDAIL - CA DATE RECEIVED: 8-3-12

Use back of form to note check-in problems and describe action(s) regarding the resolution(s) of problems.

A. PRELIMINARY EXAMINATION
Date Cooler opened: 8-3-12.
By (print) MARTIN L. DE MESA (sign)

1. Did cooler come with shipping slip (air bill, etc.)? Yes No
If yes, attach and enter carrier and air bill number here: COURIER - ESSENTIAL

2. Were custody seals on outside of cooler? Yes No N/A
If yes, how many and where:
If yes, enter the following: seal date: seal name:

3. Were custody seals unbroken and intact at delivery? Yes No N/A

4. Were custody papers sealed in bag and taped to lid? Yes No

5. Were custody papers filled out properly (ink, etc.)? Yes No

6. Did you sign custody papers in appropriate place? Yes No

7. Was project identifiable from custody papers? Yes No

8. Have designated person(s) initial and acknowledge receipt: MLD date: 8-3-12

B. LOGIN PHASE
Date samples were logged in: 8-3-12
By (print) MARTIN L. DE MESA (sign)

9. Describe packing:

10. If required, was enough ice used? Yes No

11. Were all bottles sealed in separate plastic bags? Yes No

12. Did all bottles arrive unbroken and in good condition? Yes No

13. Were all bottle labels complete (ID, date, sign, preservative)? YES

14. Did all bottle labels agree with custody papers? If no, list on back. Yes No

15. Were correct containers used for the analytes? Yes No

16. Were correct preservatives used when required? Yes No

17. Was sufficient amount of sample sent for tests? Yes No

18. Bubbles absent in VOA vials? If no, list by sample ID on back. Yes No

19. Was Client Services informed of problems? Yes No ANALYSIS FOR ODOR SAMPLE ID FW-02-028-M07 WAS RECEIVED PAST HOLDING TIME. CLIENT, SEAN CONDON WAS INFORMED. AND INSTRUCTED LAB TO PROCEED WITH ANALYSIS. MLD 8-3-12

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
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Laboratory Comments
Report: 404386

Truesdail Laboratories, Inc.
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Folder Comments

Analytical results for Giardia and Cryptosporidium are submitted by Bio Vir, Benicia, CA
Analytical results for Ethylene Glycol are submitted by PAT-CHEM Laboratories, Moorpark, CA
Analytical results forStrontium, Tritium, Radium 226 and Radium 228 are submitted by Pace Analytical Services, Greensburg, PA

Flags Legend:

H3 - Sample was received and analyzed past holding time. Data not acceptable for regulatory compliance.

L4 - The associated blank spike recovery was below method acceptance limits.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
08/03/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201208030246	**FW-02-028-M07**				
08/07/2012 16:00	Giardia and Cryptosporidium		See Attached		None	
08/03/2012 10:04	Odor at 60 C (TON)		1.0	3	TON	1
	201208030248	**FW-01-028-M07**				
08/07/2012 16:10	Giardia and Cryptosporidium		See Attached		None	
08/03/2012 10:06	Odor at 60 C (TON)		1.0	3	TON	1

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-02-028-M07 (201208030246)						**Sampled on 08/02/2012 0923**		
		EPA 906.0 - Total Tritium (Sub)						
	08/10/2012 08:11		(EPA 906.0)	Tritium	<242	pCi/L	242	1
	08/10/2012 08:11		(EPA 906.0)	Tritium, MDA	242	pCi/L		1
	08/10/2012 08:11		(EPA 906.0)	Tritium, Two Sigma Error	136	pCi/L		1
		EPA 905.0 - Total Strontium-90 (sub)						
	08/14/2012 16:59		(EPA 905.0)	Strontium 90 (sub)	<0.614	pCi/L	0.61	1
	08/14/2012 16:59		(EPA 905.0)	Strontium-90, MDA	0.614	pCi/L		1
	08/14/2012 16:59		(EPA 905.0)	Strontium-90, Two Sigma Error	0.279	pCi/L		1
		EPA 903.1 - Radium 226 (Sub)						
	08/14/2012 11:12		(EPA 903.1)	Radium 226	<0.952	pCi/L	0.95	1
	08/14/2012 11:12		(EPA 903.1)	Radium 226 Minimal Detectable	0.952	pCi/L		1
	08/14/2012 11:12		(EPA 903.1)	Radium 226 Two Sigma Error	0.49	pCi/L		1
		EPA 1623 - Giardia and Cryptosporidium						
	08/07/2012 16:00		(EPA 1623)	Giardia and Cryptosporidium	See Attached	None		1
		EPA 904.0 - Radium 228 (Sub)						
	08/13/2012 12:06		(EPA 904.0)	Radium 228	<1.000	pCi/L	1	1
	08/13/2012 12:06		(EPA 904.0)	Radium 228 Minimum Detectable	1	pCi/L		1
	08/13/2012 12:06		(EPA 904.0)	Radium 228 Two Sigma Error	0.53	pCi/L		1
		EPA 8015M - Ethylene glycol by EPA 8015M						
	08/06/2012 00:00		(EPA 8015M)	Ethylene Glycol	ND	mg/L	5	1
		EPA 100.2 - Asbestos by TEM - >10 microns						
8/3/2012	08/07/2012 00:00	666124	(EPA 100.2)	Asbestos by TEM - >10 microns	ND	MFL	0.2	1
		EPA 505 - Organochlorine Pesticides/PCBs						
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Aldrin	ND	ug/L	0.01	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Chlordane	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Endrin	ND	ug/L	0.01	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1

Rounding on totals after summation.
(c) - indicates calculated results

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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
8/4/2012	08/04/2012 21:28	665756	(EPA 505)	Tetrachlorometaxylene	101	%		1
	EPA 515.4 - Chlorophenoxy Herbicides							
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Dalapon	ND	ug/L	1	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	111	%		1
8/6/2012	08/07/2012 07:16	666366	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	94	%		1
	EPA 551.1 - EDB/DBCP/HAN by EPA 551.1							
8/7/2012	08/08/2012 12:22	666335	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
8/7/2012	08/08/2012 12:22	666335	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
8/7/2012	08/08/2012 12:22	666335	(EPA 551.1)	1,2-Dibromopropane	94	%		1
	EPA 556 - EPA Method 556							
8/3/2012	08/05/2012 20:02	665822	(EPA 556)	Acetaldehyde	ND	ug/L	1	1
8/3/2012	08/05/2012 20:02	665822	(EPA 556)	Formaldehyde	ND	ug/L	5	1
8/3/2012	08/05/2012 20:02	665822	(EPA 556)	1,2-Dibromopropane	100	%		1
8/3/2012	08/05/2012 20:02	665822	(EPA 556)	2,3,5,6-Tetrafluorobenzaldehyde	99	%		1
	EPA 525.2 - Semivolatiles by GCMS							
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Aldrin	ND (L4)	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Dibenz(a,h)Anthracene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Dimethoate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1

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Report: 404386

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Pentachlorophenol	ND	ug/L	1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Terbacil	ND (R7)	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	99	%		1
8/9/2012	08/13/2012 22:51	666891	(EPA 525.2)	Acenaphthene-d10	84	%		1

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8/9/2012	08/13/2012	22:51	666891	(EPA 525.2)	Chrysene-d12	76	%		1
8/9/2012	08/13/2012	22:51	666891	(EPA 525.2)	Perylene-d12	75	%		1
8/9/2012	08/13/2012	22:51	666891	(EPA 525.2)	Phenanthrene-d10	88	%		1
8/9/2012	08/13/2012	22:51	666891	(EPA 525.2)	Triphenylphosphate	104	%		1
		EPA 548.1 - Endothall							
8/6/2012	08/08/2012	12:01	666273	(EPA 548.1)	Endothall	ND	ug/L	5	1
		EPA 522 - 1,4-Dioxane							
8/13/2012	08/22/2012	11:03	668320	(EPA 522)	1,4-Dioxane	ND	ug/L	1	1
8/13/2012	08/22/2012	11:03	668320	(EPA 522)	Dioxane-d8	92	%		1
		EPA 521 - Nitrosamines by GCMS							
8/9/2012	08/15/2012	18:03	667040	(EPA 521)	N-Nitrosodiethylamine (NDEA)	ND	ng/L	2	1
8/9/2012	08/15/2012	18:03	667040	(EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND	ng/L	2	1
8/9/2012	08/15/2012	18:03	667040	(EPA 521)	N-Nitrosodi-n-propylamine (NDPA)	ND	ng/L	2	1
8/9/2012	08/15/2012	18:03	667040	(EPA 521)	NDMA-D6	95	%		1
8/9/2012	08/15/2012	18:03	667040	(EPA 521)	NDPA-D14	95	%		1
		EPA 1613B - 2,3,7,8-TCDD_Dioxin							
8/4/2012	08/07/2012	17:37	666141	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5	1
8/4/2012	08/07/2012	17:37	666141	(EPA 1613B)	C12-2,3,7,8-TCDD	80	%		1
		EPA 547 - Glyphosate							
	08/09/2012	16:19	666403	(EPA 547)	Glyphosate	ND	ug/L	6	1
		EPA 531.2 - Aldicarbs							
	08/06/2012	20:15	665997	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	08/06/2012	20:15	665997	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	95	%		1
		EPA 549.2 - Diquat and Paraquat							
8/6/2012	08/07/2012	20:40	666033	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
8/6/2012	08/07/2012	20:40	666033	(EPA 549.2)	Paraquat	ND	ug/L	2	1
		EPA 300.0 - Disinfection ByProducts by 300.0							
	08/06/2012	22:32	665570	(EPA 300.0)	Chlorate by IC	ND	ug/L	10	1

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		EPA 314.0 - Perchlorate						
	08/09/2012 07:41	666305	(EPA 314.0)	Perchlorate	ND	ug/L	4	1
		MWH/ LCMSMS - Acrylamide						
	08/08/2012 17:35	666035	(MWH/ LCMSMS)	Acrylamide	ND	ug/L	0.1	1
	08/08/2012 17:35	666035	(MWH/ LCMSMS)	Acrylamide C13	110	%		1
		LC-MS-MS - Explosives by LCMS						
	08/28/2012 23:15	667163	(LC-MS-MS)	2,4,6-Trinitrotoluene (TNT)	ND	ug/L	0.1	1
	08/28/2012 23:15	667163	(LC-MS-MS)	HMX	ND	ug/L	0.1	1
	08/28/2012 23:15	667163	(LC-MS-MS)	RDX	ND	ug/L	0.1	1
		EPA 524.2 - Volatile Organics by GCMS						
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1

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8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:12	667125	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1

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Laboratory Data
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
08/03/2012

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	1,2-Dichloroethane-d4	97	%		1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	4-Bromofluorobenzene	103	%		1
8/13/2012	08/13/2012	19:12	667125	(EPA 524.2)	Toluene-d8	103	%		1
	CASRL 524M-TCP - 1,2,3-Trichloropropane (SIM)								
8/9/2012	08/09/2012	21:03	666603	(CASRL 524M-TCP)	1,2,3-Trichloropropane	ND	ug/L	0.005	1
8/9/2012	08/09/2012	21:03	666603	(CASRL 524M-TCP)	Toluene-d8	87	%		1
	EPA 524.2 SIM - TBA by EPA 524.2 Modified								
8/8/2012	08/08/2012	22:44	666673	(EPA 524.2 SIM)	t-Butyl Alcohol	ND	ug/L	2	1
8/8/2012	08/08/2012	22:44	666673	(EPA 524.2 SIM)	1,2-Dichloroethane-d4	104	%		1
8/8/2012	08/08/2012	22:44	666673	(EPA 524.2 SIM)	4-Bromofluorobenzene	0	%		1
8/8/2012	08/08/2012	22:44	666673	(EPA 524.2 SIM)	Toluene-d8	98	%		1
	SM 2150B - Odor at 60 C (TON)								
	08/03/2012	10:04	665863	(SM 2150B)	Odor at 60 C (TON)	1.0 (H3)	TON	1	1
	SM 5540C/EPA 425.1 - Surfactants								
	08/03/2012	10:39	665902	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
	SM 2120B - Apparent Color								
	08/03/2012	18:06	665732	(SM 2120B)	Apparent Color	ND	ACU	3	1
FW-01-028-M07 (201208030248)							**Sampled on 08/02/2012 1050**		
	EPA 906.0 - Total Tritium (Sub)								
	08/10/2012	09:12		(EPA 906.0)	Tritium	<239	pCi/L	239	1
	08/10/2012	09:12		(EPA 906.0)	Tritium, MDA	239	pCi/L		1
	08/10/2012	09:12		(EPA 906.0)	Tritium, Two Sigma Error	135	pCi/L		1
	EPA 905.0 - Total Strontium-90 (sub)								
	08/14/2012	18:24		(EPA 905.0)	Strontium 90 (sub)	<0.553	pCi/L	0.55	1
	08/14/2012	18:24		(EPA 905.0)	Strontium-90, MDA	0.553	pCi/L		1
	08/14/2012	18:24		(EPA 905.0)	Strontium-90, Two Sigma Error	0.194	pCi/L		1
	EPA 903.1 - Radium 226 (Sub)								
	08/14/2012	11:25		(EPA 903.1)	Radium 226	<0.854	pCi/L	0.85	1
	08/14/2012	11:25		(EPA 903.1)	Radium 226 Minimal Detectable	0.854	pCi/L		1
	08/14/2012	11:25		(EPA 903.1)	Radium 226 Two Sigma Error	0.582	pCi/L		1
	EPA 1623 - Giardia and Cryptosporidium								
	08/07/2012	16:10		(EPA 1623)	Giardia and Cryptosporidium	See Attached	None		1

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		EPA 904.0 - Radium 228 (Sub)						
	08/13/2012 11:58		(EPA 904.0)	Radium 228	<0.951	pCi/L	0.95	1
	08/13/2012 11:58		(EPA 904.0)	Radium 228 Minimum Detectable	0.951	pCi/L		1
	08/13/2012 11:58		(EPA 904.0)	Radium 228 Two Sigma Error	0.487	pCi/L		1
		EPA 8015M - Ethylene glycol by EPA 8015M						
	08/06/2012 00:00		(EPA 8015M)	Ethylene Glycol	ND	mg/L	5	1
		EPA 100.2 - Asbestos by TEM - >10 microns						
8/3/2012	08/07/2012 00:00	666124	(EPA 100.2)	Asbestos by TEM - >10 microns	ND	MFL	0.2	1
		EPA 505 - Organochlorine Pesticides/PCBs						
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Aldrin	ND	ug/L	0.01	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Chlordane	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Endrin	ND	ug/L	0.01	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
8/4/2012	08/04/2012 22:37	665756	(EPA 505)	Tetrachlorometaxylene	97	%		1
		EPA 515.4 - Chlorophenoxy Herbicides						
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
8/6/2012	08/07/2012 07:41	666366	(EPA 515.4)	Dalapon	ND	ug/L	1	1

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8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	110	%		1
8/6/2012	08/07/2012	07:41	666366	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	98	%		1
	EPA 551.1 - EDB/DBCP/HAN by EPA 551.1								
8/7/2012	08/08/2012	13:26	666335	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
8/7/2012	08/08/2012	13:26	666335	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
8/7/2012	08/08/2012	13:26	666335	(EPA 551.1)	1,2-Dibromopropane	101	%		1
	EPA 556 - EPA Method 556								
8/3/2012	08/05/2012	21:03	665822	(EPA 556)	Acetaldehyde	ND	ug/L	1	1
8/3/2012	08/05/2012	21:03	665822	(EPA 556)	Formaldehyde	ND	ug/L	5	1
8/3/2012	08/05/2012	21:03	665822	(EPA 556)	1,2-Dibromopropane	99	%		1
8/3/2012	08/05/2012	21:03	665822	(EPA 556)	2,3,5,6-Tetrafluorobenzaldehyde	101	%		1
	EPA 525.2 - Semivolatiles by GCMS								
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Aldrin	ND (L4)	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1

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8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Dibenz(a,h)Anthracene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Dimethoate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
8/9/2012	08/13/2012 23:15	666891	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1

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8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Pentachlorophenol	ND	ug/L	1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Permethrin (mixed isomers)	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Terbacil	ND (R7)	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	98	%		1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Acenaphthene-d10	98	%		1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Chrysene-d12	93	%		1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Perylene-d12	78	%		1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Phenanthrene-d10	105	%		1
8/9/2012	08/13/2012	23:15	666891	(EPA 525.2)	Triphenylphosphate	98	%		1
		EPA 548.1 - Endothall							
8/6/2012	08/08/2012	12:17	666273	(EPA 548.1)	Endothall	ND	ug/L	5	1
		EPA 522 - 1,4-Dioxane							
8/13/2012	08/22/2012	11:19	668320	(EPA 522)	1,4-Dioxane	ND	ug/L	1	1
8/13/2012	08/22/2012	11:19	668320	(EPA 522)	Dioxane-d8	90	%		1
		EPA 521 - Nitrosamines by GCMS							
8/9/2012	08/15/2012	18:48	667040	(EPA 521)	N-Nitrosodiethylamine (NDEA)	ND	ng/L	2	1
8/9/2012	08/15/2012	18:48	667040	(EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND	ng/L	2	1
8/9/2012	08/15/2012	18:48	667040	(EPA 521)	N-Nitrosodi-n-propylamine (NDPA)	ND	ng/L	2	1
8/9/2012	08/15/2012	18:48	667040	(EPA 521)	NDMA-D6	86	%		1
8/9/2012	08/15/2012	18:48	667040	(EPA 521)	NDPA-D14	98	%		1

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Laboratory Data
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
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08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		EPA 1613B - 2,3,7,8-TCDD_Dioxin						
8/4/2012	08/07/2012 18:13	666141	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5	1
8/4/2012	08/07/2012 18:13	666141	(EPA 1613B)	C12-2,3,7,8-TCDD	84	%		1
		EPA 547 - Glyphosate						
	08/09/2012 16:30	666403	(EPA 547)	Glyphosate	ND	ug/L	6	1
		EPA 531.2 - Aldicarbs						
	08/06/2012 20:52	665997	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	08/06/2012 20:52	665997	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	97	%		1
		EPA 549.2 - Diquat and Paraquat						
8/6/2012	08/07/2012 20:53	666033	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
8/6/2012	08/07/2012 20:53	666033	(EPA 549.2)	Paraquat	ND	ug/L	2	1
		EPA 300.0 - Disinfection ByProducts by 300.0						
	08/06/2012 22:57	665570	(EPA 300.0)	Chlorate by IC	ND	ug/L	10	1
		EPA 314.0 - Perchlorate						
	08/09/2012 08:02	666305	(EPA 314.0)	Perchlorate	ND	ug/L	4	1
		MWH/ LCMSMS - Acrylamide						
	08/08/2012 17:46	666035	(MWH/ LCMSMS)	Acrylamide	ND	ug/L	0.1	1
	08/08/2012 17:46	666035	(MWH/ LCMSMS)	Acrylamide C13	112	%		1
		LC-MS-MS - Explosives by LCMS						
	08/28/2012 23:30	667163	(LC-MS-MS)	2,4,6-Trinitrotoluene (TNT)	ND	ug/L	0.1	1
	08/28/2012 23:30	667163	(LC-MS-MS)	HMX	ND	ug/L	0.1	1
	08/28/2012 23:30	667163	(LC-MS-MS)	RDX	ND	ug/L	0.1	1
		EPA 524.2 - Volatile Organics by GCMS						
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1

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8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:33	667125	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	1,2-Dichloroethane-d4	91	%		1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	4-Bromofluorobenzene	102	%		1
8/13/2012	08/13/2012	19:33	667125	(EPA 524.2)	Toluene-d8	97	%		1
		CASRL 524M-TCP - 1,2,3-Trichloropropane (SIM)							
8/9/2012	08/09/2012	21:42	666603	(CASRL 524M-TCP)	1,2,3-Trichloropropane	ND	ug/L	0.005	1
8/9/2012	08/09/2012	21:42	666603	(CASRL 524M-TCP)	Toluene-d8	88	%		1
		EPA 524.2 SIM - TBA by EPA 524.2 Modified							
8/8/2012	08/08/2012	23:21	666673	(EPA 524.2 SIM)	t-Butyl Alcohol	ND	ug/L	2	1
8/8/2012	08/08/2012	23:21	666673	(EPA 524.2 SIM)	1,2-Dichloroethane-d4	104	%		1
8/8/2012	08/08/2012	23:21	666673	(EPA 524.2 SIM)	4-Bromofluorobenzene	0	%		1

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8/8/2012	08/08/2012	23:21	666673	(EPA 524.2 SIM)	Toluene-d8	102	%		1
		SM 2150B - Odor at 60 C (TON)							
	08/03/2012	10:06	665863	(SM 2150B)	Odor at 60 C (TON)	1.0 (H3)	TON	1	1
		SM 5540C/EPA 425.1 - Surfactants							
	08/03/2012	10:40	665902	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
		SM 2120B - Apparent Color							
	08/03/2012	18:07	665732	(SM 2120B)	Apparent Color	ND	ACU	3	1
FW-02-028-M07 TB (201208030249)							**Sampled on 08/02/2012 0800**		
		EPA 551.1 - EDB/DBCP/HAN by EPA 551.1							
8/7/2012	08/08/2012	14:31	666335	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
8/7/2012	08/08/2012	14:31	666335	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
8/7/2012	08/08/2012	14:31	666335	(EPA 551.1)	1,2-Dibromopropane	101	%		1
		EPA 524.2 - Volatile Organics by GCMS							
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 404386

CH2M-Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 19:54	667125	(EPA 524.2)	Toluene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 404386

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Samples Received on:
08/03/2012

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	1,2-Dichloroethane-d4	91	%		1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	4-Bromofluorobenzene	99	%		1
8/13/2012	08/13/2012	19:54	667125	(EPA 524.2)	Toluene-d8	96	%		1
		EPA 524.2 SIM - TBA by EPA 524.2 Modified							
8/8/2012	08/09/2012	23:59	666673	(EPA 524.2 SIM)	t-Butyl Alcohol	ND	ug/L	2	1
8/8/2012	08/09/2012	23:59	666673	(EPA 524.2 SIM)	1,2-Dichloroethane-d4	104	%		1
8/8/2012	08/09/2012	23:59	666673	(EPA 524.2 SIM)	4-Bromofluorobenzene	0	%		1
8/8/2012	08/09/2012	23:59	666673	(EPA 524.2 SIM)	Toluene-d8	102	%		1
FW-01-028-M07 TB (201208030250)							**Sampled on 08/02/2012 0800**		
		EPA 551.1 - EDB/DBCP/HAN by EPA 551.1							
8/7/2012	08/08/2012	15:03	666335	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
8/7/2012	08/08/2012	15:03	666335	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
8/7/2012	08/08/2012	15:03	666335	(EPA 551.1)	1,2-Dibromopropane	98	%		1
		EPA 524.2 - Volatile Organics by GCMS							
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012	20:15	667125	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 404386

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Shawn Duffy
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Redding, CA 96001

Samples Received on:
08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Samples Received on:
08/03/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	1,2-Dichloroethane-d4	105	%		1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	4-Bromofluorobenzene	105	%		1
8/13/2012	08/13/2012 20:15	667125	(EPA 524.2)	Toluene-d8	99	%		1
	EPA 524.2 SIM - TBA by EPA 524.2 Modified							
8/8/2012	08/09/2012 00:37	666673	(EPA 524.2 SIM)	t-Butyl Alcohol	ND	ug/L	2	1
8/8/2012	08/09/2012 00:37	666673	(EPA 524.2 SIM)	1,2-Dichloroethane-d4	114	%		1
8/8/2012	08/09/2012 00:37	666673	(EPA 524.2 SIM)	4-Bromofluorobenzene	0	%		1
8/8/2012	08/09/2012 00:37	666673	(EPA 524.2 SIM)	Toluene-d8	100	%		1

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Truesdail Laboratories, Inc.

QC Ref # 665570 - Disinfection ByProducts by 300.0 **Analysis Date: 08/06/2012**

201208030246	FW-02-028-M07	Analyzed by: LUPE
201208030246	FW-02-028-M07	Analyzed by: LUPE
201208030248	FW-01-028-M07	Analyzed by: LUPE
201208030248	FW-01-028-M07	Analyzed by: LUPE

QC Ref # 665732 - Apparent Color **Analysis Date: 08/03/2012**

201208030246	FW-02-028-M07	Analyzed by: LLL
201208030246	FW-02-028-M07	Analyzed by: LLL
201208030248	FW-01-028-M07	Analyzed by: LLL
201208030248	FW-01-028-M07	Analyzed by: LLL

QC Ref # 665756 - Organochlorine Pesticides/PCBs **Analysis Date: 08/04/2012**

201208030246	FW-02-028-M07	Analyzed by: KCR
201208030246	FW-02-028-M07	Analyzed by: KCR
201208030248	FW-01-028-M07	Analyzed by: KCR
201208030248	FW-01-028-M07	Analyzed by: KCR

QC Ref # 665822 - EPA Method 556 **Analysis Date: 08/05/2012**

201208030246	FW-02-028-M07	Analyzed by: DYM
201208030246	FW-02-028-M07	Analyzed by: DYM
201208030248	FW-01-028-M07	Analyzed by: DYM
201208030248	FW-01-028-M07	Analyzed by: DYM

QC Ref # 665863 - Odor at 60 C (TON) **Analysis Date: 08/03/2012**

201208030246	FW-02-028-M07	Analyzed by: NEM
201208030246	FW-02-028-M07	Analyzed by: NEM
201208030248	FW-01-028-M07	Analyzed by: NEM
201208030248	FW-01-028-M07	Analyzed by: NEM

QC Ref # 665902 - Surfactants **Analysis Date: 08/03/2012**

201208030246	FW-02-028-M07	Analyzed by: JMO
201208030246	FW-02-028-M07	Analyzed by: JMO
201208030248	FW-01-028-M07	Analyzed by: JMO
201208030248	FW-01-028-M07	Analyzed by: JMO

QC Ref # 665997 - Aldicarbs **Analysis Date: 08/06/2012**

201208030246	FW-02-028-M07	Analyzed by: XWO
201208030246	FW-02-028-M07	Analyzed by: XWO
201208030248	FW-01-028-M07	Analyzed by: XWO
201208030248	FW-01-028-M07	Analyzed by: XWO

QC Ref # 666033 - Diquat and Paraquat **Analysis Date: 08/07/2012**

201208030246	FW-02-028-M07	Analyzed by: SZZ
201208030246	FW-02-028-M07	Analyzed by: SZZ
201208030248	FW-01-028-M07	Analyzed by: SZZ
201208030248	FW-01-028-M07	Analyzed by: SZZ

QC Ref # 666035 - Acrylamide **Analysis Date: 08/08/2012**

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201208030246	FW-02-028-M07	Analyzed by: LHZ
201208030246	FW-02-028-M07	Analyzed by: LHZ
201208030248	FW-01-028-M07	Analyzed by: LHZ
201208030248	FW-01-028-M07	Analyzed by: LHZ

QC Ref # 666124 - Asbestos by TEM - >10 microns **Analysis Date: 08/07/2012**

201208030246	FW-02-028-M07	Analyzed by: CJB
201208030246	FW-02-028-M07	Analyzed by: CJB
201208030248	FW-01-028-M07	Analyzed by: CJB
201208030248	FW-01-028-M07	Analyzed by: CJB

QC Ref # 666141 - 2,3,7,8-TCDD_Dioxin **Analysis Date: 08/07/2012**

201208030246	FW-02-028-M07	Analyzed by: PAC
201208030246	FW-02-028-M07	Analyzed by: PAC
201208030248	FW-01-028-M07	Analyzed by: PAC
201208030248	FW-01-028-M07	Analyzed by: PAC

QC Ref # 666273 - Endothall **Analysis Date: 08/08/2012**

201208030246	FW-02-028-M07	Analyzed by: CRW
201208030246	FW-02-028-M07	Analyzed by: CRW
201208030248	FW-01-028-M07	Analyzed by: CRW
201208030248	FW-01-028-M07	Analyzed by: CRW

QC Ref # 666305 - Perchlorate **Analysis Date: 08/09/2012**

201208030246	FW-02-028-M07	Analyzed by: LUPE
201208030246	FW-02-028-M07	Analyzed by: LUPE
201208030248	FW-01-028-M07	Analyzed by: LUPE
201208030248	FW-01-028-M07	Analyzed by: LUPE

QC Ref # 666335 - EDB/DBCP/HAN by EPA 551.1 **Analysis Date: 08/08/2012**

201208030246	FW-02-028-M07	Analyzed by: LRL
201208030246	FW-02-028-M07	Analyzed by: LRL
201208030248	FW-01-028-M07	Analyzed by: LRL
201208030248	FW-01-028-M07	Analyzed by: LRL
201208030249	FW-02-028-M07 TB	Analyzed by: LRL
201208030249	FW-02-028-M07 TB	Analyzed by: LRL
201208030250	FW-01-028-M07 TB	Analyzed by: LRL
201208030250	FW-01-028-M07 TB	Analyzed by: LRL

QC Ref # 666366 - Chlorophenoxy Herbicides **Analysis Date: 08/07/2012**

201208030246	FW-02-028-M07	Analyzed by: SZZ
201208030246	FW-02-028-M07	Analyzed by: SZZ
201208030248	FW-01-028-M07	Analyzed by: SZZ
201208030248	FW-01-028-M07	Analyzed by: SZZ

QC Ref # 666403 - Glyphosate **Analysis Date: 08/09/2012**

201208030246	FW-02-028-M07	Analyzed by: XWO
201208030246	FW-02-028-M07	Analyzed by: XWO
201208030248	FW-01-028-M07	Analyzed by: XWO
201208030248	FW-01-028-M07	Analyzed by: XWO

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QC Ref # 666603 - 1,2,3-Trichloropropane (SIM) **Analysis Date: 08/09/2012**

201208030246	FW-02-028-M07	Analyzed by: KAM
201208030246	FW-02-028-M07	Analyzed by: KAM
201208030248	FW-01-028-M07	Analyzed by: KAM
201208030248	FW-01-028-M07	Analyzed by: KAM

QC Ref # 666673 - TBA by EPA 524.2 Modified **Analysis Date: 08/08/2012**

201208030246	FW-02-028-M07	Analyzed by: KAM
201208030246	FW-02-028-M07	Analyzed by: KAM
201208030248	FW-01-028-M07	Analyzed by: KAM
201208030248	FW-01-028-M07	Analyzed by: KAM
201208030249	FW-02-028-M07 TB	Analyzed by: KAM
201208030249	FW-02-028-M07 TB	Analyzed by: KAM
201208030250	FW-01-028-M07 TB	Analyzed by: KAM
201208030250	FW-01-028-M07 TB	Analyzed by: KAM

QC Ref # 666891 - Semivolatiles by GCMS **Analysis Date: 08/13/2012**

201208030246	FW-02-028-M07	Analyzed by: JWC
201208030246	FW-02-028-M07	Analyzed by: JWC
201208030248	FW-01-028-M07	Analyzed by: JWC
201208030248	FW-01-028-M07	Analyzed by: JWC

QC Ref # 667040 - Nitrosamines by GCMS **Analysis Date: 08/15/2012**

201208030246	FW-02-028-M07	Analyzed by: KDT
201208030246	FW-02-028-M07	Analyzed by: KDT
201208030248	FW-01-028-M07	Analyzed by: KDT
201208030248	FW-01-028-M07	Analyzed by: KDT

QC Ref # 667125 - Volatile Organics by GCMS **Analysis Date: 08/13/2012**

201208030246	FW-02-028-M07	Analyzed by: MCB
201208030246	FW-02-028-M07	Analyzed by: MCB
201208030248	FW-01-028-M07	Analyzed by: MCB
201208030248	FW-01-028-M07	Analyzed by: MCB
201208030249	FW-02-028-M07 TB	Analyzed by: MCB
201208030249	FW-02-028-M07 TB	Analyzed by: MCB
201208030250	FW-01-028-M07 TB	Analyzed by: MCB
201208030250	FW-01-028-M07 TB	Analyzed by: MCB

QC Ref # 667163 - Explosives by LCMS **Analysis Date: 08/28/2012**

201208030246	FW-02-028-M07	Analyzed by: ARH
201208030246	FW-02-028-M07	Analyzed by: ARH
201208030248	FW-01-028-M07	Analyzed by: ARH
201208030248	FW-01-028-M07	Analyzed by: ARH

QC Ref # 668320 - 1,4-Dioxane **Analysis Date: 08/22/2012**

201208030246	FW-02-028-M07	Analyzed by: KDT
201208030246	FW-02-028-M07	Analyzed by: KDT
201208030248	FW-01-028-M07	Analyzed by: KDT
201208030248	FW-01-028-M07	Analyzed by: KDT

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 665570 - Disinfection ByProducts by 300.0 by EPA 300.0						**Analysis Date: 08/06/2012**			
LCS1	Chlorate by IC		200	200	ug/L	100	(90-110)		
LCS2	Chlorate by IC		200	198	ug/L	99	(90-110)	20	0.50
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	9.00	ug/L	90	(75-125)		
MS_201208020349	Chlorate by IC	ND	100	96.6	ug/L	97	(80-120)		
MSD_201208020349	Chlorate by IC	ND	100	97.2	ug/L	97	(80-120)	15	0.72
QC Ref# 665732 - Apparent Color by SM 2120B						**Analysis Date: 08/03/2012**			
DUP1_201208030282	Apparent Color	ND		ND	ACU		(0-20)		
DUP2_201208030001	Apparent Color	ND		ND	ACU		(0-20)		
MBLK	Apparent Color			<3	ACU				
QC Ref# 665756 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 08/04/2012**			
CCCH	Alachlor (Alanex)		1.0	1.10	ug/L	110	(70-130)		
LCS1	Alachlor (Alanex)		1.0	1.10	ug/L	111	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.0949	ug/L	95	(50-150)		
MS1_201208020349	Alachlor (Alanex)	ND	0.2	0.223	ug/L	111	(65-135)		
MS2_201208030246	Alachlor (Alanex)	ND	1.0	1.09	ug/L	109	(65-135)		
CCCH	Aldrin		0.1	0.110	ug/L	110	(70-130)		
LCS1	Aldrin		0.1	0.114	ug/L	114	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0113	ug/L	113	(50-150)		
MS1_201208020349	Aldrin	ND	0.02	0.0200	ug/L	100	(65-135)		
MS2_201208030246	Aldrin	ND	0.1	0.113	ug/L	113	(65-135)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.102	ug/L	102	(70-130)		
LCS1	Dieldrin		0.1	0.0983	ug/L	98	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.00980	ug/L	98	(50-150)		
MS1_201208020349	Dieldrin	ND	0.02	0.0200	ug/L	100	(65-135)		
MS2_201208030246	Dieldrin	ND	0.1	0.100	ug/L	100	(65-135)		
CCCH	Endrin		0.1	0.0993	ug/L	99	(70-130)		
LCS1	Endrin		0.1	0.0939	ug/L	94	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0116	ug/L	116	(50-150)		
MS1_201208020349	Endrin	ND	0.02	0.0213	ug/L	107	(65-135)		
MS2_201208030246	Endrin	ND	0.1	0.0967	ug/L	97	(65-135)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Heptachlor		0.1	0.104	ug/L	104	(70-130)		
LCS1	Heptachlor		0.1	0.0976	ug/L	98	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.0125	ug/L	125	(50-150)		
MS1_201208020349	Heptachlor	ND	0.02	0.0228	ug/L	114	(65-135)		
MS2_201208030246	Heptachlor	ND	0.1	0.103	ug/L	103	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.102	ug/L	101	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.0997	ug/L	100	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0119	ug/L	119	(50-150)		
MS1_201208020349	Heptachlor Epoxide	ND	0.02	0.0220	ug/L	110	(65-135)		
MS2_201208030246	Heptachlor Epoxide	ND	0.1	0.100	ug/L	100	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.0983	ug/L	98	(70-130)		
LCS1	Lindane (gamma-BHC)		0.1	0.0958	ug/L	96	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0121	ug/L	121	(50-150)		
MS1_201208020349	Lindane (gamma-BHC)	ND	0.02	0.0220	ug/L	110	(65-135)		
MS2_201208030246	Lindane (gamma-BHC)	ND	0.1	0.0980	ug/L	98	(65-135)		
CCCH	Methoxychlor		0.5	0.480	ug/L	96	(70-130)		
LCS1	Methoxychlor		0.5	0.478	ug/L	96	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0688	ug/L	138	(50-150)		
MS1_201208020349	Methoxychlor	ND	0.1	0.112	ug/L	112	(65-135)		
MS2_201208030246	Methoxychlor	ND	0.5	0.477	ug/L	95	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
CCCH	PCB 1254 Aroclor		0.5	0.554	ug/L	111	(70-130)		
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MRL_CHK	PCB 1254 Aroclor		0.1	0.0803	ug/L	80	(50-150)		
MS1_201208020349	PCB 1254 Aroclor	ND	0.5	0.519	ug/L	104	(65-135)		
MS2_201208030246	PCB 1254 Aroclor	ND	0.5	0.563	ug/L	113	(65-135)		
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			99.8	%	100	(70-130)		
LCS1	Tetrachlorometaxylene (S)			100	%	100	(70-130)		
MBLK	Tetrachlorometaxylene (S)			100	%	100	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Tetrachlorometaxylene (S)			103	%	103	(70-130)		
MS1_201208020349	Tetrachlorometaxylene (S)			93.6	%	94	(70-130)		
MS2_201208030246	Tetrachlorometaxylene (S)			98.1	%	98	(70-130)		
MBLK	Total PCBs			<0.08	ug/L				
MBLK	Toxaphene			<0.5	ug/L				
QC Ref# 665822 - EPA Method 556 by EPA 556						**Analysis Date: 08/05/2012**			
CCCH	1,2-Dibromopropane (I)			97.4	%	97	(70-130)		
CCCL	1,2-Dibromopropane (I)			98.9	%	99	(70-130)		
CCCM	1,2-Dibromopropane (I)			100	%	101	(70-130)		
DUP1_201208020349	1,2-Dibromopropane (I)			99.8	%	100	(70-130)		
LCS1	1,2-Dibromopropane (I)			100	%	101	(70-130)		
MBLK	1,2-Dibromopropane (I)			100	%	100	(70-130)		
MRL_CHK	1,2-Dibromopropane (I)			101	%	101	(70-130)		
MS1_201208020287	1,2-Dibromopropane (I)			98.9	%	99	(70-130)		
CCCH	2,3,5,6-Tetrafluorobenzaldehyde (S)			96.1	%	96	(70-130)		
CCCL	2,3,5,6-Tetrafluorobenzaldehyde (S)			109	%	109	(70-130)		
CCCM	2,3,5,6-Tetrafluorobenzaldehyde (S)			95.7	%	96	(70-130)		
DUP1_201208020349	2,3,5,6-Tetrafluorobenzaldehyde (S)			101	%	101	(70-130)		
LCS1	2,3,5,6-Tetrafluorobenzaldehyde (S)			97.0	%	97	(70-130)		
MBLK	2,3,5,6-Tetrafluorobenzaldehyde (S)			103	%	103	(70-130)		
MRL_CHK	2,3,5,6-Tetrafluorobenzaldehyde (S)			107	%	107	(70-130)		
MS1_201208020287	2,3,5,6-Tetrafluorobenzaldehyde (S)			95.8	%	96	(70-130)		
CCCH	Acetaldehyde		10	9.44	ug/L	95	(70-130)		
CCCL	Acetaldehyde		1.0	1.02	ug/L	103	(50-150)		
CCCM	Acetaldehyde		5.0	5.64	ug/L	113	(70-130)		
DUP1_201208020349	Acetaldehyde	ND		ND	ug/L		(0-20)		
LCS1	Acetaldehyde		5.0	4.30	ug/L	86	(60-140)		
MBLK	Acetaldehyde			<1	ug/L				
MRL_CHK	Acetaldehyde		1.0	1.10	ug/L	110	(50-150)		
MS1_201208020287	Acetaldehyde	ND	5.0	4.55	ug/L	83	(70-130)		
CCCH	Formaldehyde		50	49.2	ug/L	98	(70-130)		
CCCL	Formaldehyde		5.0	5.89	ug/L	118	(50-150)		
CCCM	Formaldehyde		25	28.3	ug/L	113	(70-130)		
DUP1_201208020349	Formaldehyde	ND		ND	ug/L		(0-20)		
LCS1	Formaldehyde		5.0	5.38	ug/L	108	(60-140)		
MBLK	Formaldehyde			<5	ug/L				
MRL_CHK	Formaldehyde		5.0	5.54	ug/L	111	(50-150)		
MS1_201208020287	Formaldehyde	ND	25	23.0	ug/L	88	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 665863 - Odor at 60 C (TON) by SM 2150B						**Analysis Date: 08/03/2012**			
DUP1_201208030246	Odor at 60 C (TON)	1.0		1.00	TON		(0-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				
QC Ref# 665902 - Surfactants by SM 5540C/EPA 425.1						**Analysis Date: 08/03/2012**			
LCS1	Surfactants		0.2	0.218	mg/L	109	(90-110)		
LCS2	Surfactants		0.2	0.196	mg/L	98	(90-110)	20	11
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0405	mg/L	81	(50-150)		
MS_201208030023	Surfactants	0.053	0.2	0.202	mg/L	**74**	(80-120)		
MSD_201208030023	Surfactants	0.053	0.2	0.208	mg/L	**77**	(80-120)	20	2.9
QC Ref# 665997 - Aldicarbs by EPA 531.2						**Analysis Date: 08/06/2012**			
CCCH	3-Hydroxycarbofuran		25	24.6	ug/L	98	(70-130)		
CCCM	3-Hydroxycarbofuran		10	9.75	ug/L	98	(70-130)		
LCS1	3-Hydroxycarbofuran		10	10.9	ug/L	109	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.25	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.504	ug/L	101	(50-150)		
MS_201208020287	3-Hydroxycarbofuran	ND	10	9.58	ug/L	96	(70-130)		
MSD_201208020287	3-Hydroxycarbofuran	ND	10	9.51	ug/L	95	(70-130)	20	0.73
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		97.0	%	97	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		109	%	109	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		80.3	%	80	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		94.5	%	95	(70-130)		
MS_201208020287	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		105	%	105	(70-130)		
MSD_201208020287	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		103	%	103	(70-130)		
CCCH	Aldicarb (Temik)		25	24.8	ug/L	99	(70-130)		
CCCM	Aldicarb (Temik)		10	9.87	ug/L	99	(70-130)		
LCS1	Aldicarb (Temik)		10	11.0	ug/L	110	(70-130)		
MBLK	Aldicarb (Temik)			<0.25	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.493	ug/L	99	(50-150)		
MS_201208020287	Aldicarb (Temik)	ND	10	9.93	ug/L	99	(70-130)		
MSD_201208020287	Aldicarb (Temik)	ND	10	9.82	ug/L	98	(70-130)	20	1.1
CCCH	Aldicarb sulfone		25	24.6	ug/L	99	(70-130)		
CCCM	Aldicarb sulfone		10	9.18	ug/L	92	(70-130)		
LCS1	Aldicarb sulfone		10	10.9	ug/L	109	(70-130)		
MBLK	Aldicarb sulfone			<0.25	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.450	ug/L	90	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201208020287	Aldicarb sulfone	ND	10	9.48	ug/L	95	(70-130)		
MSD_201208020287	Aldicarb sulfone	ND	10	9.95	ug/L	100	(70-130)	20	4.8
CCCH	Aldicarb sulfoxide		25	25.0	ug/L	100	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.72	ug/L	97	(70-130)		
LCS1	Aldicarb sulfoxide		10	11.9	ug/L	119	(70-130)		
MBLK	Aldicarb sulfoxide			<0.25	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.432	ug/L	87	(50-150)		
MS_201208020287	Aldicarb sulfoxide	ND	10	9.77	ug/L	98	(70-130)		
MSD_201208020287	Aldicarb sulfoxide	ND	10	10.2	ug/L	102	(70-130)	20	4.3
CCCH	Baygon		25	24.6	ug/L	99	(70-130)		
CCCM	Baygon		10	9.90	ug/L	99	(70-130)		
LCS1	Baygon		10	10.9	ug/L	109	(70-130)		
MBLK	Baygon			<0.25	ug/L				
MRL_CHK	Baygon		0.5	0.537	ug/L	107	(50-150)		
MS_201208020287	Baygon	ND	10	10.0	ug/L	100	(70-130)		
MSD_201208020287	Baygon	ND	10	9.93	ug/L	99	(70-130)	20	0.70
CCCH	Carbaryl		25	25.5	ug/L	102	(70-130)		
CCCM	Carbaryl		10	10.1	ug/L	101	(70-130)		
LCS1	Carbaryl		10	11.4	ug/L	114	(70-130)		
MBLK	Carbaryl			<0.25	ug/L				
MRL_CHK	Carbaryl		0.5	0.453	ug/L	91	(50-150)		
MS_201208020287	Carbaryl	ND	10	10.0	ug/L	100	(70-130)		
MSD_201208020287	Carbaryl	ND	10	9.83	ug/L	98	(70-130)	20	1.7
CCCH	Carbofuran (Furadan)		25	24.6	ug/L	98	(70-130)		
CCCM	Carbofuran (Furadan)		10	9.58	ug/L	96	(70-130)		
LCS1	Carbofuran (Furadan)		10	11.3	ug/L	113	(70-130)		
MBLK	Carbofuran (Furadan)			<0.25	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.514	ug/L	103	(50-150)		
MS_201208020287	Carbofuran (Furadan)	ND	10	9.75	ug/L	98	(70-130)		
MSD_201208020287	Carbofuran (Furadan)	ND	10	9.76	ug/L	98	(70-130)	20	0.10
CCCH	Methiocarb		25	24.2	ug/L	97	(70-130)		
CCCM	Methiocarb		10	9.41	ug/L	94	(70-130)		
LCS1	Methiocarb		10	11.0	ug/L	110	(70-130)		
MBLK	Methiocarb			<0.25	ug/L				
MRL_CHK	Methiocarb		0.5	0.501	ug/L	100	(50-150)		
MS_201208020287	Methiocarb	ND	10	9.96	ug/L	100	(70-130)		
MSD_201208020287	Methiocarb	ND	10	9.81	ug/L	98	(70-130)	20	1.5
CCCH	Methomyl		25	24.9	ug/L	100	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Methomyl		10	10.2	ug/L	102	(70-130)		
LCS1	Methomyl		10	11.1	ug/L	111	(70-130)		
MBLK	Methomyl			<0.25	ug/L				
MRL_CHK	Methomyl		0.5	0.452	ug/L	91	(50-150)		
MS_201208020287	Methomyl	ND	10	9.51	ug/L	95	(70-130)		
MSD_201208020287	Methomyl	ND	10	9.74	ug/L	97	(70-130)	20	2.4
CCCH	Oxamyl (Vydate)		25	25.1	ug/L	100	(70-130)		
CCCM	Oxamyl (Vydate)		10	10.0	ug/L	100	(70-130)		
LCS1	Oxamyl (Vydate)		10	11.9	ug/L	119	(70-130)		
MBLK	Oxamyl (Vydate)			<0.25	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.468	ug/L	94	(50-150)		
MS_201208020287	Oxamyl (Vydate)	ND	10	9.85	ug/L	99	(70-130)		
MSD_201208020287	Oxamyl (Vydate)	ND	10	9.79	ug/L	98	(70-130)	20	0.61
QC Ref# 666033 - Diquat and Paraquat by EPA 549.2						**Analysis Date: 08/07/2012**			
CCCH	Diquat		20	21.5	ug/L	108	(80-120)		
CCCL	Diquat		0.4	0.405	ug/L	101	(80-120)		
CCCM	Diquat		10	11.0	ug/L	110	(80-120)		
LCS1	Diquat		5.0	4.39	ug/L	88	(70-130)		
LCS2	Diquat		5.0	4.42	ug/L	88	(70-130)	20	0.68
MBLK	Diquat			<0.2	ug/L				
MRL_CHK	Diquat		0.4	0.369	ug/L	92	(50-150)		
MS_201208010402	Diquat	ND	5.0	3.14	ug/L	**63**	(70-130)		
MS2_201208030282	Diquat	ND	5.0	4.48	ug/L	90	(70-130)		
MSD_201208010402	Diquat	ND	5.0	2.76	ug/L	**55**	(70-130)	20	13
CCCH	Paraquat		20	20.5	ug/L	102	(80-120)		
CCCL	Paraquat		2.0	2.01	ug/L	101	(80-120)		
CCCM	Paraquat		10	10.4	ug/L	103	(80-120)		
LCS1	Paraquat		5.0	4.65	ug/L	93	(70-130)		
LCS2	Paraquat		5.0	4.80	ug/L	96	(70-130)	20	3.2
MBLK	Paraquat			<1	ug/L				
MRL_CHK	Paraquat		2.0	1.98	ug/L	99	(50-150)		
MS_201208010402	Paraquat	ND	5.0	3.99	ug/L	80	(70-130)		
MS2_201208030282	Paraquat	ND	5.0	4.11	ug/L	82	(70-130)		
MSD_201208010402	Paraquat	ND	5.0	3.97	ug/L	79	(70-130)	20	0.50
QC Ref# 666035 - Acrylamide by MWH/ LCMSMS						**Analysis Date: 08/08/2012**			
LCS1	Acrylamide		10	9.79	ug/L	98	(70-130)		
LCS2	Acrylamide		10	9.99	ug/L	100	(70-130)	20	2.0

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Acrylamide			<0.1	ug/L				
MRL_CHK	Acrylamide		0.1	0.0932	ug/L	93	(50-150)		
MS_201208030246	Acrylamide	ND	10	9.89	ug/L	99	(70-130)		
MSD_201208030246	Acrylamide	ND	10	9.83	ug/L	98	(70-130)	20	0.61
LCS1	Acrylamide C13 (I)			106	%	106	(50-150)		
LCS2	Acrylamide C13 (I)			106	%	106	(50-150)		
MBLK	Acrylamide C13 (I)			102	%	102	(50-150)		
MRL_CHK	Acrylamide C13 (I)			104	%	104	(50-150)		
MS_201208030246	Acrylamide C13 (I)			105	%	105	(50-150)		
MSD_201208030246	Acrylamide C13 (I)			106	%	106	(50-150)		
QC Ref# 666141 - 2,3,7,8-TCDD_Dioxin by EPA 1613B						**Analysis Date: 08/07/2012**			
LCS1	2,3,7,8-TCDD		200	150	pg/L	75	(73-146)		
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5.0	4.60	pg/L	92	(50-150)		
MS_201208020210	2,3,7,8-TCDD	ND	200	165	pg/L	83	(73-146)		
MSD_201208020210	2,3,7,8-TCDD	ND	200	162	pg/L	81	(73-146)	20	1.8
LCS1	C12-2,3,7,8-TCDD (S)			78.4	%	78	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			85.1	%	85	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)			81.8	%	82	(31-137)		
MS_201208020210	C12-2,3,7,8-TCDD (S)			83.8	%	84	(25-141)		
MSD_201208020210	C12-2,3,7,8-TCDD (S)			81.9	%	82	(25-141)		
QC Ref# 666221 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 08/07/2012**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			102	%	103	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			100	%	100	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			107	%	107	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			98.6	%	99	(70-130)		
MS_201207310212	1,3-Dimethyl-2-nitrobenzene (S)			105	%	105	(70-130)		
LCS1	Acenaphthene-d10 (I)			73.9	%	74	(50-150)		
LCS2	Acenaphthene-d10 (I)			69.3	%	69	(50-150)		
MBLK	Acenaphthene-d10 (I)			51.2	%	51	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			78.6	%	79	(50-150)		
MS_201207310212	Acenaphthene-d10 (I)			71.4	%	71	(50-150)		
LCS1	Chrysene-d12 (I)			81.5	%	82	(50-150)		
LCS2	Chrysene-d12 (I)			78.2	%	78	(50-150)		
MBLK	Chrysene-d12 (I)			48.6	%	**49**	(50-150)		
MRL_CHK	Chrysene-d12 (I)			87.1	%	87	(50-150)		
MS_201207310212	Chrysene-d12 (I)			71.4	%	71	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perylene-d12 (S)			91.8	%	92	(70-130)		
LCS2	Perylene-d12 (S)			92.6	%	93	(70-130)		
MBLK	Perylene-d12 (S)			66.6	%	**67**	(70-130)		
MRL_CHK	Perylene-d12 (S)			82.9	%	83	(70-130)		
MS_201207310212	Perylene-d12 (S)			91.9	%	92	(70-130)		
LCS1	Phenanthrene-d10 (I)			79.3	%	79	(50-150)		
LCS2	Phenanthrene-d10 (I)			76.3	%	76	(50-150)		
MBLK	Phenanthrene-d10 (I)			58.4	%	58	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			84.5	%	85	(50-150)		
MS_201207310212	Phenanthrene-d10 (I)			77.3	%	77	(50-150)		
LCS1	Simazine		2.0	2.06	ug/L	103	(70-130)		
LCS2	Simazine		2.0	1.94	ug/L	97	(70-130)	20	6.0
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0540	ug/L	108	(50-150)		
MS_201207310212	Simazine	ND	2.0	0	ug/L	**0**	(70-130)		
LCS1	Triphenylphosphate (S)			111	%	111	(70-130)		
LCS2	Triphenylphosphate (S)			109	%	109	(70-130)		
MBLK	Triphenylphosphate (S)			117	%	117	(70-130)		
MRL_CHK	Triphenylphosphate (S)			110	%	110	(70-130)		
MS_201207310212	Triphenylphosphate (S)			111	%	111	(70-130)		
QC Ref# 666273 - Endothall by EPA 548.1						**Analysis Date: 08/08/2012**			
LCS1	Endothall		25	16.5	ug/L	66	(63-144)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5.0	4.54	ug/L	91	(50-150)		
MS_201207240114	Endothall	ND	25	22.2	ug/L	89	(38-157)		
MS_201208030248	Endothall	ND	25	19.8	ug/L	79	(38-157)		
MSD_201208030248	Endothall	ND	25	17.9	ug/L	72	(38-157)	30	10
MSD_201207240114	Endothall	ND	25	19.6	ug/L	78	(38-157)	30	12
QC Ref# 666305 - Perchlorate by EPA 314.0						**Analysis Date: 08/09/2012**			
LCS1	Perchlorate		25	25.6	ug/L	102	(85-115)		
LCS2	Perchlorate		25	25.5	ug/L	102	(85-115)	15	0.39
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.24	ug/L	106	(75-125)		
MS_201208020287	Perchlorate	ND	25	25.4	ug/L	102	(80-120)		
MSD_201208020287	Perchlorate	ND	25	25.5	ug/L	102	(80-120)	15	0.39
QC Ref# 666335 - EDB/DBCP/HAN by EPA 551.1 by EPA 551.1						**Analysis Date: 08/08/2012**			
CCCM2	1,2-Dibromopropane (S)			98.2	%	98	(80-120)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP1_201208030248	1,2-Dibromopropane (S)			99.1	%	99	(80-120)		
LCS2	1,2-Dibromopropane (S)			97.1	%	97	(80-120)		
MBLK	1,2-Dibromopropane (S)			106	%	107	(80-120)		
MRL_CHK	1,2-Dibromopropane (S)			101	%	101	(80-120)		
MS2_201208030246	1,2-Dibromopropane (S)			96.2	%	96	(80-120)		
CCCM2	Dibromochloropropane (DBCP)		0.05	0.0440	ug/L	88	(80-120)		
DUP1_201208030248	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0-20)		
LCS2	Dibromochloropropane (DBCP)		0.2	0.199	ug/L	99	(80-120)		
MBLK	Dibromochloropropane (DBCP)			<0.01	ug/L				
MRL_CHK	Dibromochloropropane (DBCP)		0.01	0.0108	ug/L	108	(50-150)		
MS2_201208030246	Dibromochloropropane (DBCP)	ND	0.05	0.0441	ug/L	88	(80-120)		
CCCM2	Ethylene Dibromide (EDB)		0.05	0.0404	ug/L	81	(80-120)		
DUP1_201208030248	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
LCS2	Ethylene Dibromide (EDB)		0.2	0.227	ug/L	114	(80-120)		
MBLK	Ethylene Dibromide (EDB)			<0.01	ug/L				
MRL_CHK	Ethylene Dibromide (EDB)		0.01	0.0115	ug/L	115	(50-150)		
MS2_201208030246	Ethylene Dibromide (EDB)	ND	0.05	0.0407	ug/L	81	(80-120)		
QC Ref# 666366 - Chlorophenoxy Herbicides by EPA 515.4						**Analysis Date: 08/06/2012**			
CCCH	2,4,5-T		4.0	4.06	ug/L	101	(70-130)		
CCCM	2,4,5-T		1.0	0.957	ug/L	96	(70-130)		
LCS1	2,4,5-T		3.0	2.53	ug/L	84	(70-130)		
MBLK	2,4,5-T			<0.1	ug/L				
MRL_CHK	2,4,5-T		0.2	0.224	ug/L	112	(50-150)		
MS1_201208020287	2,4,5-T	ND	3.0	3.21	ug/L	107	(70-130)		
MSD1_201208020287	2,4,5-T	ND	3.0	3.29	ug/L	110	(70-130)	30	2.5
CCCH	2,4,5-TP (Silvex)		4.0	4.10	ug/L	102	(70-130)		
CCCM	2,4,5-TP (Silvex)		1.0	1.05	ug/L	105	(70-130)		
LCS1	2,4,5-TP (Silvex)		3.0	3.28	ug/L	109	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.1	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.229	ug/L	114	(50-150)		
MS1_201208020287	2,4,5-TP (Silvex)	ND	3.0	3.26	ug/L	109	(70-130)		
MSD1_201208020287	2,4,5-TP (Silvex)	ND	3.0	3.35	ug/L	112	(70-130)	30	2.7
CCCH	2,4-D		2.0	1.82	ug/L	91	(70-130)		
CCCM	2,4-D		0.5	0.470	ug/L	94	(70-130)		
LCS1	2,4-D		1.5	1.35	ug/L	90	(70-130)		
MBLK	2,4-D			<0.05	ug/L				
MRL_CHK	2,4-D		0.1	0.100	ug/L	100	(50-150)		
MS1_201208020287	2,4-D	ND	1.5	1.45	ug/L	97	(70-130)		

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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 404386

Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201208020287	2,4-D	ND	1.5	1.46	ug/L	97	(70-130)	30	0.69
CCCH	2,4-DB		40	40.7	ug/L	102	(70-130)		
CCCM	2,4-DB		10	9.88	ug/L	99	(70-130)		
LCS1	2,4-DB		30	28.7	ug/L	96	(70-130)		
MBLK	2,4-DB			<1	ug/L				
MRL_CHK	2,4-DB		2.0	1.45	ug/L	72	(50-150)		
MS1_201208020287	2,4-DB	ND	30	31.6	ug/L	106	(70-130)		
MSD1_201208020287	2,4-DB	ND	30	32.3	ug/L	108	(70-130)	30	1.9
CCCH	2,4-Dichlorophenyl acetic acid (S)			96.2	%	96	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			97.0	%	97	(70-130)		
LCS1	2,4-Dichlorophenyl acetic acid (S)			106	%	106	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			78.4	%	78	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			104	%	104	(70-130)		
MS1_201208020287	2,4-Dichlorophenyl acetic acid (S)			102	%	102	(70-130)		
MSD1_201208020287	2,4-Dichlorophenyl acetic acid (S)			104	%	104	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	9.92	ug/L	99	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.51	ug/L	100	(70-130)		
LCS1	3,5-Dichlorobenzoic acid		7.5	7.68	ug/L	102	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.25	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.579	ug/L	116	(50-150)		
MS1_201208020287	3,5-Dichlorobenzoic acid	ND	7.5	7.69	ug/L	102	(70-130)		
MSD1_201208020287	3,5-Dichlorobenzoic acid	ND	7.5	7.86	ug/L	105	(70-130)	30	2.2
CCCH	4,4-Dibromooctafluorobiphenyl (I)			99.8	%	100	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			98.8	%	99	(50-150)		
LCS1	4,4-Dibromooctafluorobiphenyl (I)			98.4	%	98	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			98.6	%	99	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			96.2	%	96	(50-150)		
MS1_201208020287	4,4-Dibromooctafluorobiphenyl (I)			96.4	%	96	(50-150)		
MSD1_201208020287	4,4-Dibromooctafluorobiphenyl (I)			97.4	%	97	(50-150)		
CCCH	Acifluorfen		4.0	4.26	ug/L	107	(70-130)		
CCCM	Acifluorfen		1.0	1.02	ug/L	102	(70-130)		
LCS1	Acifluorfen		3.0	3.07	ug/L	102	(70-130)		
MBLK	Acifluorfen			<0.1	ug/L				
MRL_CHK	Acifluorfen		0.2	0.195	ug/L	98	(50-150)		
MS1_201208020287	Acifluorfen	ND	3.0	3.43	ug/L	114	(70-130)		
MSD1_201208020287	Acifluorfen	ND	3.0	3.48	ug/L	116	(70-130)	30	1.5
CCCH	Bentazon		10	9.88	ug/L	99	(70-130)		
CCCM	Bentazon		2.5	2.53	ug/L	101	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bentazon		7.5	7.64	ug/L	102	(70-130)		
MBLK	Bentazon			<0.25	ug/L				
MRL_CHK	Bentazon		0.5	0.502	ug/L	100	(50-150)		
MS1_201208020287	Bentazon	ND	7.5	7.74	ug/L	103	(70-130)		
MSD1_201208020287	Bentazon	ND	7.5	7.83	ug/L	104	(70-130)	30	1.0
CCCH	Dalapon		20	20.0	ug/L	100	(70-130)		
CCCM	Dalapon		5.0	5.23	ug/L	105	(70-130)		
LCS1	Dalapon		15	14.8	ug/L	99	(70-130)		
MBLK	Dalapon			<0.5	ug/L				
MRL_CHK	Dalapon		1.0	0.808	ug/L	81	(50-150)		
MS1_201208020287	Dalapon	ND	15	15.6	ug/L	104	(70-130)		
MSD1_201208020287	Dalapon	ND	15	16.4	ug/L	109	(70-130)	30	5.0
CCCH	Dicamba		2.0	1.93	ug/L	97	(70-130)		
CCCM	Dicamba		0.5	0.501	ug/L	100	(70-130)		
LCS1	Dicamba		1.5	1.70	ug/L	114	(70-130)		
MBLK	Dicamba			<0.04	ug/L				
MRL_CHK	Dicamba		0.1	0.136	ug/L	136	(50-150)		
MS1_201208020287	Dicamba	ND	1.5	1.72	ug/L	115	(70-130)		
MSD1_201208020287	Dicamba	ND	1.5	1.70	ug/L	114	(70-130)	30	0.58
CCCH	Dichlorprop		10	9.59	ug/L	96	(70-130)		
CCCM	Dichlorprop		2.5	2.53	ug/L	101	(70-130)		
LCS1	Dichlorprop		7.5	7.74	ug/L	103	(70-130)		
MBLK	Dichlorprop			<0.25	ug/L				
MRL_CHK	Dichlorprop		0.5	0.550	ug/L	110	(50-150)		
MS1_201208020287	Dichlorprop	ND	7.5	7.74	ug/L	103	(70-130)		
MSD1_201208020287	Dichlorprop	ND	7.5	7.88	ug/L	105	(70-130)	30	1.8
CCCH	Dinoseb		4.0	4.08	ug/L	102	(70-130)		
CCCM	Dinoseb		1.0	1.03	ug/L	103	(70-130)		
LCS1	Dinoseb		3.0	3.02	ug/L	101	(70-130)		
MBLK	Dinoseb			<0.1	ug/L				
MRL_CHK	Dinoseb		0.2	0.181	ug/L	90	(50-150)		
MS1_201208020287	Dinoseb	ND	3.0	3.20	ug/L	107	(70-130)		
MSD1_201208020287	Dinoseb	ND	3.0	3.25	ug/L	108	(70-130)	30	1.2
CCCH	Pentachlorophenol		0.8	0.786	ug/L	98	(70-130)		
CCCM	Pentachlorophenol		0.2	0.207	ug/L	103	(70-130)		
LCS1	Pentachlorophenol		0.6	0.644	ug/L	107	(70-130)		
MBLK	Pentachlorophenol			<0.02	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0525	ug/L	131	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201208020287	Pentachlorophenol	ND	0.6	0.675	ug/L	112	(70-130)		
MSD1_201208020287	Pentachlorophenol	ND	0.6	0.696	ug/L	116	(70-130)	30	3.1
CCCH	Picloram		2.0	2.03	ug/L	102	(70-130)		
CCCM	Picloram		0.5	0.508	ug/L	102	(70-130)		
LCS1	Picloram		1.5	1.54	ug/L	103	(70-130)		
MBLK	Picloram			<0.05	ug/L				
MRL_CHK	Picloram		0.1	0.0912	ug/L	91	(50-150)		
MS1_201208020287	Picloram	ND	1.5	1.59	ug/L	106	(70-130)		
MSD1_201208020287	Picloram	ND	1.5	1.61	ug/L	107	(70-130)	30	1.3
CCCH	Tot DCPA Mono&Diacid Degradate		2.0	1.91	ug/L	96	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.399	ug/L	80	(70-130)		
LCS1	Tot DCPA Mono&Diacid Degradate		1.5	1.35	ug/L	90	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.5	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.115	ug/L	115	(50-150)		
MS1_201208020287	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.67	ug/L	111	(70-130)		
MSD1_201208020287	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.76	ug/L	117	(70-130)	30	5.3
QC Ref# 666403 - Glyphosate by EPA 547						**Analysis Date: 08/09/2012**			
CCCH	Glyphosate		25	26.4	ug/L	106	(80-120)		
CCCM	Glyphosate		10	10.6	ug/L	106	(80-120)		
LCS1	Glyphosate		10	10.8	ug/L	108	(80-120)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	4.83	ug/L	81	(50-150)		
MS_201208020287	Glyphosate	ND	10	9.33	ug/L	93	(83-119)		
MS2_201208020349	Glyphosate	ND	10	9.08	ug/L	91	(83-119)		
MSD_201208020287	Glyphosate	ND	10	9.00	ug/L	90	(83-119)	20	3.6
QC Ref# 666603 - 1,2,3-Trichloropropane (SIM) by CASRL 524M-TCP						**Analysis Date: 08/09/2012**			
DUP_201208060064	1,2,3-Trichloropropane			2.50	ug/L		(0-20)	20	1.6
DUP_201208060063	1,2,3-Trichloropropane			3.00	ug/L		(0-20)	20	0.95
LCS1	1,2,3-Trichloropropane		0.01	0.00972	ug/L	97	(80-120)		
LCS2	1,2,3-Trichloropropane		0.01	0.0117	ug/L	117	(80-120)	20	19
MBLK	1,2,3-Trichloropropane			<0.005	ug/L				
MBLK	1,2,3-Trichloropropane			<0.005	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.005	0.00452	ug/L	90	(50-150)		
DUP_201208060063	Toluene-d8 (S)			92.6	%	93	(80-120)		
DUP_201208060064	Toluene-d8 (S)			85.6	%	86	(80-120)		
LCS1	Toluene-d8 (S)			87.1	%	87	(80-120)		
LCS2	Toluene-d8 (S)			86.9	%	87	(80-120)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Toluene-d8 (S)			87.4	%	87	(80-120)		
MBLK	Toluene-d8 (S)			86.7	%	87	(80-120)		
MRL_CHK	Toluene-d8 (S)			90.2	%	90	(80-120)		
QC Ref# 666673 - TBA by EPA 524.2 Modified by EPA 524.2 SIM						**Analysis Date: 08/08/2012**			
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	4-Bromofluorobenzene (S)			0	%				
LCS2	4-Bromofluorobenzene (S)			0	%				
MBLK	4-Bromofluorobenzene (S)			0	%				
MRL_CHK	4-Bromofluorobenzene (S)			0	%				
LCS1	t-Butyl Alcohol		5.0	5.47	ug/L	109	(70-130)		
LCS2	t-Butyl Alcohol		5.0	5.85	ug/L	117	(70-130)	20	6.7
MBLK	t-Butyl Alcohol			<1	ug/L				
MRL_CHK	t-Butyl Alcohol		2.0	2.29	ug/L	115	(50-150)		
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			100	%	100	(70-130)		
MBLK	Toluene-d8 (S)			100	%	100	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
QC Ref# 666891 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 08/13/2012**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			96.4	%	96	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			98.2	%	98	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			89.4	%	89	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			93.6	%	94	(70-130)		
MS_201208010531	1,3-Dimethyl-2-nitrobenzene (S)			95.2	%	95	(70-130)		
LCS1	2,4-Dinitrotoluene		2.0	1.92	ug/L	96	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	2.08	ug/L	104	(70-130)	20	8.0
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.0960	ug/L	96	(50-150)		
MS_201208010531	2,4-Dinitrotoluene	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	2,6-Dinitrotoluene		2.0	1.84	ug/L	92	(70-130)		
LCS2	2,6-Dinitrotoluene		2.0	2.04	ug/L	102	(70-130)	20	10
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.0860	ug/L	86	(50-150)		
MS_201208010531	2,6-Dinitrotoluene	ND	2.0	1.93	ug/L	97	(70-130)		
LCS1	4,4-DDD		2.0	1.81	ug/L	91	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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LCS2	4,4-DDD		2.0	1.91	ug/L	96	(70-130)	20	5.4
MBLK	4,4-DDD			<0.05	ug/L				
MRL_CHK	4,4-DDD		0.1	0.0820	ug/L	82	(50-150)		
MS_201208010531	4,4-DDD	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	4,4-DDE		2.0	1.85	ug/L	93	(70-130)		
LCS2	4,4-DDE		2.0	1.84	ug/L	92	(70-130)	20	0.54
MBLK	4,4-DDE			<0.05	ug/L				
MRL_CHK	4,4-DDE		0.1	0.0860	ug/L	86	(50-150)		
MS_201208010531	4,4-DDE	ND	2.0	1.91	ug/L	96	(70-130)		
LCS1	4,4-DDT		2.0	1.79	ug/L	90	(70-130)		
LCS2	4,4-DDT		2.0	1.80	ug/L	90	(70-130)	20	0.56
MBLK	4,4-DDT			<0.05	ug/L				
MRL_CHK	4,4-DDT		0.1	0.0680	ug/L	68	(50-150)		
MS_201208010531	4,4-DDT	ND	2.0	1.89	ug/L	95	(70-130)		
LCS1	Acenaphthene		2.0	1.85	ug/L	93	(70-130)		
LCS2	Acenaphthene		2.0	1.95	ug/L	98	(70-130)	20	5.3
MBLK	Acenaphthene			<0.05	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0920	ug/L	92	(50-150)		
MS_201208010531	Acenaphthene	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Acenaphthene-d10 (I)			91.7	%	92	(50-150)		
LCS2	Acenaphthene-d10 (I)			88.6	%	89	(50-150)		
MBLK	Acenaphthene-d10 (I)			75.5	%	76	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			91.5	%	92	(50-150)		
MS_201208010531	Acenaphthene-d10 (I)			85.6	%	86	(50-150)		
LCS1	Acenaphthylene		2.0	1.62	ug/L	81	(70-130)		
LCS2	Acenaphthylene		2.0	1.80	ug/L	90	(70-130)	20	11
MBLK	Acenaphthylene			<0.05	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0710	ug/L	71	(50-150)		
MS_201208010531	Acenaphthylene	ND	2.0	1.76	ug/L	88	(70-130)		
LCS1	Acetochlor		2.0	1.76	ug/L	88	(70-130)		
LCS2	Acetochlor		2.0	2.12	ug/L	106	(70-130)	20	19
MBLK	Acetochlor			<0.05	ug/L				
MRL_CHK	Acetochlor		0.05	0.0430	ug/L	86	(50-150)		
MS_201208010531	Acetochlor	ND	2.0	2.07	ug/L	104	(70-130)		
LCS1	Alachlor		2.0	1.78	ug/L	89	(70-130)		
LCS2	Alachlor		2.0	1.94	ug/L	97	(70-130)	20	8.6
MBLK	Alachlor			<0.025	ug/L				
MRL_CHK	Alachlor		0.05	0.0440	ug/L	88	(50-150)		

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MS_201208010531	Alachlor	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Aldrin		2.0	1.36	ug/L	**68**	(70-130)		
LCS2	Aldrin		2.0	1.62	ug/L	81	(70-130)	20	17
MBLK	Aldrin			<0.025	ug/L				
MRL_CHK	Aldrin		0.05	0.0360	ug/L	72	(50-150)		
MS_201208010531	Aldrin	ND	2.0	1.57	ug/L	79	(70-130)		
LCS1	Alpha-BHC		2.0	1.94	ug/L	97	(70-130)		
LCS2	Alpha-BHC		2.0	2.10	ug/L	105	(70-130)	20	7.9
MBLK	Alpha-BHC			<0.05	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.100	ug/L	100	(50-150)		
MS_201208010531	Alpha-BHC	ND	2.0	2.07	ug/L	103	(70-130)		
LCS1	alpha-Chlordane		2.0	1.88	ug/L	94	(70-130)		
LCS2	alpha-Chlordane		2.0	1.95	ug/L	97	(70-130)	20	3.7
MBLK	alpha-Chlordane			<0.025	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0580	ug/L	116	(50-150)		
MS_201208010531	alpha-Chlordane	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Anthracene		2.0	1.76	ug/L	88	(70-130)		
LCS2	Anthracene		2.0	1.86	ug/L	93	(70-130)	20	5.5
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0170	ug/L	85	(50-150)		
MS_201208010531	Anthracene	ND	2.0	1.89	ug/L	95	(70-130)		
LCS1	Atrazine		2.0	1.95	ug/L	98	(70-130)		
LCS2	Atrazine		2.0	2.10	ug/L	105	(70-130)	20	7.4
MBLK	Atrazine			<0.025	ug/L				
MRL_CHK	Atrazine		0.05	0.0460	ug/L	92	(50-150)		
MS_201208010531	Atrazine	ND	2.0	2.13	ug/L	107	(70-130)		
LCS1	Benz(a)Anthracene		2.0	1.58	ug/L	79	(70-130)		
LCS2	Benz(a)Anthracene		2.0	1.69	ug/L	84	(70-130)	20	6.7
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0500	ug/L	100	(50-150)		
MS_201208010531	Benz(a)Anthracene	ND	2.0	1.81	ug/L	91	(70-130)		
LCS1	Benzo(a)pyrene		2.0	1.71	ug/L	86	(70-130)		
LCS2	Benzo(a)pyrene		2.0	1.72	ug/L	86	(70-130)	20	0.58
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0140	ug/L	70	(50-150)		
MS_201208010531	Benzo(a)pyrene	ND	2.0	1.75	ug/L	88	(70-130)		
LCS1	Benzo(b)Fluoranthene		2.0	1.84	ug/L	92	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	1.93	ug/L	97	(70-130)	20	4.8

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Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0150	ug/L	75	(50-150)		
MS_201208010531	Benzo(b)Fluoranthene	ND	2.0	1.88	ug/L	94	(70-130)		
LCS1	Benzo(g,h,i)Perylene		2.0	1.70	ug/L	85	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	1.74	ug/L	87	(70-130)	20	2.3
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0320	ug/L	64	(50-150)		
MS_201208010531	Benzo(g,h,i)Perylene	ND	2.0	1.70	ug/L	85	(70-130)		
LCS1	Benzo(k)Fluoranthene		2.0	1.95	ug/L	98	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	1.93	ug/L	96	(70-130)	20	1.0
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0200	ug/L	100	(50-150)		
MS_201208010531	Benzo(k)Fluoranthene	ND	2.0	1.95	ug/L	98	(70-130)		
LCS1	Beta-BHC		2.0	1.91	ug/L	95	(70-130)		
LCS2	Beta-BHC		2.0	2.02	ug/L	101	(70-130)	20	5.6
MBLK	Beta-BHC			<0.05	ug/L				
MRL_CHK	Beta-BHC		0.1	0.0780	ug/L	78	(50-150)		
MS_201208010531	Beta-BHC	ND	2.0	2.14	ug/L	107	(70-130)		
LCS1	Bromacil		2.0	1.80	ug/L	90	(70-130)		
LCS2	Bromacil		2.0	1.97	ug/L	98	(70-130)	20	9.0
MBLK	Bromacil			<0.05	ug/L				
MRL_CHK	Bromacil		0.1	0.0760	ug/L	76	(50-150)		
MS_201208010531	Bromacil	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	Butachlor		2.0	1.76	ug/L	88	(70-130)		
LCS2	Butachlor		2.0	1.91	ug/L	96	(70-130)	20	8.2
MBLK	Butachlor			<0.025	ug/L				
MRL_CHK	Butachlor		0.05	0.0420	ug/L	84	(50-150)		
MS_201208010531	Butachlor	ND	2.0	1.99	ug/L	100	(70-130)		
LCS1	Butylbenzylphthalate		2.0	1.71	ug/L	86	(70-130)		
LCS2	Butylbenzylphthalate		2.0	1.78	ug/L	89	(70-130)	20	4.0
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.138	ug/L	92	(50-150)		
MS_201208010531	Butylbenzylphthalate	ND	2.0	1.90	ug/L	95	(70-130)		
LCS1	Caffeine by method 525mod		2.0	1.50	ug/L	75	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.60	ug/L	80	(45-137)	20	5.8
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0370	ug/L	74	(50-150)		
MS_201208010531	Caffeine by method 525mod	ND	2.0	1.60	ug/L	80	(46-144)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chlorobenzilate		2.0	1.73	ug/L	86	(70-130)		
LCS2	Chlorobenzilate		2.0	1.84	ug/L	92	(70-130)	20	6.2
MBLK	Chlorobenzilate			<0.05	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.0750	ug/L	75	(50-150)		
MS_201208010531	Chlorobenzilate	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Chloroneb		2.0	1.89	ug/L	95	(70-130)		
LCS2	Chloroneb		2.0	2.03	ug/L	102	(70-130)	20	7.1
MBLK	Chloroneb			<0.05	ug/L				
MRL_CHK	Chloroneb		0.1	0.105	ug/L	105	(50-150)		
MS_201208010531	Chloroneb	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	1.88	ug/L	94	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	1.98	ug/L	99	(70-130)	20	5.2
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0360	ug/L	72	(50-150)		
MS_201208010531	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Chlorpyrifos (Dursban)		2.0	1.68	ug/L	84	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	1.90	ug/L	95	(70-130)	20	12
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0380	ug/L	76	(50-150)		
MS_201208010531	Chlorpyrifos (Dursban)	ND	2.0	1.93	ug/L	96	(70-130)		
LCS1	Chrysene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Chrysene		2.0	1.90	ug/L	95	(70-130)	20	0.53
MBLK	Chrysene			<0.01	ug/L				
MRL_CHK	Chrysene		0.02	0.0210	ug/L	105	(50-150)		
MS_201208010531	Chrysene	ND	2.0	1.91	ug/L	96	(70-130)		
LCS1	Chrysene-d12 (I)			82.2	%	82	(50-150)		
LCS2	Chrysene-d12 (I)			82.0	%	82	(50-150)		
MBLK	Chrysene-d12 (I)			54.9	%	55	(50-150)		
MRL_CHK	Chrysene-d12 (I)			78.3	%	78	(50-150)		
MS_201208010531	Chrysene-d12 (I)			85.8	%	86	(50-150)		
LCS1	Delta-BHC		2.0	1.80	ug/L	90	(70-130)		
LCS2	Delta-BHC		2.0	1.90	ug/L	95	(70-130)	20	5.4
MBLK	Delta-BHC			<0.05	ug/L				
MRL_CHK	Delta-BHC		0.1	0.0770	ug/L	77	(50-150)		
MS_201208010531	Delta-BHC	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Di-(2-Ethylhexyl)adipate		2.0	1.84	ug/L	92	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	1.82	ug/L	91	(70-130)	20	1.1
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.257	ug/L	86	(50-150)		
MS_201208010531	Di-(2-Ethylhexyl)adipate	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	Di(2-Ethylhexyl)phthalate		2.0	2.04	ug/L	102	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	1.92	ug/L	96	(70-130)	20	6.1
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.556	ug/L	93	(50-150)		
MS_201208010531	Di(2-Ethylhexyl)phthalate	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Diazinon (Qualitative)		2.0	1.58	ug/L	79	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.75	ug/L	88	(70-130)	20	9.6
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0740	ug/L	74	(50-150)		
MS_201208010531	Diazinon (Qualitative)	ND	2.0	1.79	ug/L	90	(70-130)		
LCS1	Dibenz(a,h)Anthracene		2.0	1.66	ug/L	83	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	1.66	ug/L	83	(70-130)	20	0.0
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0300	ug/L	60	(50-150)		
MS_201208010531	Dibenz(a,h)Anthracene	ND	2.0	1.63	ug/L	82	(70-130)		
LCS1	Dichlorvos (DDVP)		2.0	1.84	ug/L	92	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	1.98	ug/L	99	(70-130)	20	7.3
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0500	ug/L	100	(50-150)		
MS_201208010531	Dichlorvos (DDVP)	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Dieldrin		2.0	1.66	ug/L	83	(70-130)		
LCS2	Dieldrin		2.0	1.78	ug/L	89	(70-130)	20	7.0
MBLK	Dieldrin			<0.05	ug/L				
MRL_CHK	Dieldrin		0.1	0.0890	ug/L	89	(50-150)		
MS_201208010531	Dieldrin	ND	2.0	1.84	ug/L	92	(70-130)		
LCS1	Diethylphthalate		2.0	2.00	ug/L	100	(70-130)		
LCS2	Diethylphthalate		2.0	2.18	ug/L	109	(70-130)	20	8.6
MBLK	Diethylphthalate			<0.15	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.161	ug/L	107	(50-150)		
MS_201208010531	Diethylphthalate	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Dimethoate		2.0	1.42	ug/L	71	(35-100)		
LCS2	Dimethoate		2.0	1.68	ug/L	84	(35-100)	20	17
MBLK	Dimethoate			<0.05	ug/L				
MRL_CHK	Dimethoate		0.1	0.0670	ug/L	67	(35-100)		
MS_201208010531	Dimethoate	ND	2.0	1.65	ug/L	82	(34-111)		
LCS1	Dimethylphthalate		2.0	1.91	ug/L	96	(70-130)		

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Laboratory QC
Report: 404386

Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dimethylphthalate		2.0	2.05	ug/L	103	(70-130)	20	7.1
MBLK	Dimethylphthalate			<0.15	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.294	ug/L	98	(50-150)		
MS_201208010531	Dimethylphthalate	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	Di-n-Butylphthalate		4.0	3.78	ug/L	94	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	3.95	ug/L	99	(70-130)	20	4.4
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.288	ug/L	96	(50-150)		
MS_201208010531	Di-n-Butylphthalate	ND	4.0	4.04	ug/L	101	(70-130)		
LCS1	Di-N-octylphthalate		2.0	2.06	ug/L	103	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.98	ug/L	99	(70-130)	20	3.5
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.0690	ug/L	69	(50-150)		
MS_201208010531	Di-N-octylphthalate	ND	2.0	2.03	ug/L	101	(70-130)		
LCS1	Endosulfan I (Alpha)		2.0	1.76	ug/L	88	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	1.88	ug/L	94	(70-130)	20	6.6
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0870	ug/L	87	(50-150)		
MS_201208010531	Endosulfan I (Alpha)	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Endosulfan II (Beta)		2.0	1.69	ug/L	85	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	1.77	ug/L	89	(70-130)	20	4.6
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.0700	ug/L	70	(50-150)		
MS_201208010531	Endosulfan II (Beta)	ND	2.0	1.85	ug/L	92	(70-130)		
LCS1	Endosulfan Sulfate		2.0	1.80	ug/L	90	(70-130)		
LCS2	Endosulfan Sulfate		2.0	1.86	ug/L	93	(70-130)	20	3.3
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.0550	ug/L	55	(50-150)		
MS_201208010531	Endosulfan Sulfate	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Endrin		2.0	1.69	ug/L	85	(70-130)		
LCS2	Endrin		2.0	1.81	ug/L	91	(70-130)	20	6.9
MBLK	Endrin			<0.05	ug/L				
MRL_CHK	Endrin		0.1	0.0920	ug/L	92	(50-150)		
MS_201208010531	Endrin	ND	2.0	1.87	ug/L	94	(70-130)		
LCS1	Endrin Aldehyde		2.0	1.58	ug/L	79	(70-130)		
LCS2	Endrin Aldehyde		2.0	1.69	ug/L	84	(70-130)	20	6.7
MBLK	Endrin Aldehyde			<0.05	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0900	ug/L	90	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201208010531	Endrin Aldehyde	ND	2.0	1.72	ug/L	86	(70-130)		
LCS1	EPTC		2.0	1.92	ug/L	96	(70-130)		
LCS2	EPTC		2.0	2.04	ug/L	102	(70-130)	20	6.1
MBLK	EPTC			<0.05	ug/L				
MRL_CHK	EPTC		0.1	0.0980	ug/L	98	(50-150)		
MS_201208010531	EPTC	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	Fluoranthene		2.0	1.77	ug/L	89	(70-130)		
LCS2	Fluoranthene		2.0	1.85	ug/L	93	(70-130)	20	4.4
MBLK	Fluoranthene			<0.05	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0420	ug/L	84	(50-150)		
MS_201208010531	Fluoranthene	ND	2.0	1.95	ug/L	98	(70-130)		
LCS1	Fluorene		2.0	1.87	ug/L	93	(70-130)		
LCS2	Fluorene		2.0	1.98	ug/L	99	(70-130)	20	5.7
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0490	ug/L	98	(50-150)		
MS_201208010531	Fluorene	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	gamma-Chlordane		2.0	1.75	ug/L	87	(70-130)		
LCS2	gamma-Chlordane		2.0	1.87	ug/L	93	(70-130)	20	6.6
MBLK	gamma-Chlordane			<0.025	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0490	ug/L	98	(50-150)		
MS_201208010531	gamma-Chlordane	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Heptachlor		2.0	1.75	ug/L	87	(70-130)		
LCS2	Heptachlor		2.0	1.89	ug/L	94	(70-130)	20	7.7
MBLK	Heptachlor			<0.015	ug/L				
MRL_CHK	Heptachlor		0.04	0.0360	ug/L	90	(50-150)		
MS_201208010531	Heptachlor	ND	2.0	1.92	ug/L	96	(70-130)		
LCS1	Heptachlor Epoxide (isomer B)		2.0	1.94	ug/L	97	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2.0	1.92	ug/L	96	(70-130)	20	1.0
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0500	ug/L	100	(50-150)		
MS_201208010531	Heptachlor Epoxide (isomer B)	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Hexachlorobenzene		2.0	1.96	ug/L	98	(70-130)		
LCS2	Hexachlorobenzene		2.0	2.05	ug/L	102	(70-130)	20	4.5
MBLK	Hexachlorobenzene			<0.025	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0540	ug/L	108	(50-150)		
MS_201208010531	Hexachlorobenzene	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Hexachlorocyclopentadiene		2.0	1.76	ug/L	88	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	1.77	ug/L	89	(70-130)	20	0.57

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0410	ug/L	82	(50-150)		
MS_201208010531	Hexachlorocyclopentadiene	ND	2.0	1.75	ug/L	87	(70-130)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	1.64	ug/L	82	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	1.67	ug/L	84	(70-130)	20	1.8
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0300	ug/L	60	(50-150)		
MS_201208010531	Indeno(1,2,3,c,d)Pyrene	ND	2.0	1.67	ug/L	84	(70-130)		
LCS1	Isophorone		2.0	1.68	ug/L	84	(70-130)		
LCS2	Isophorone		2.0	1.99	ug/L	99	(70-130)	20	17
MBLK	Isophorone			<0.25	ug/L				
MRL_CHK	Isophorone		0.1	0.0900	ug/L	90	(50-150)		
MS_201208010531	Isophorone	ND	2.0	1.68	ug/L	84	(70-130)		
LCS1	Lindane		2.0	1.94	ug/L	97	(70-130)		
LCS2	Lindane		2.0	2.06	ug/L	103	(70-130)	20	6.0
MBLK	Lindane			<0.02	ug/L				
MRL_CHK	Lindane		0.04	0.0420	ug/L	105	(50-150)		
MS_201208010531	Lindane	ND	2.0	2.11	ug/L	106	(70-130)		
LCS1	Malathion		2.0	1.78	ug/L	89	(70-130)		
LCS2	Malathion		2.0	1.91	ug/L	96	(70-130)	20	7.0
MBLK	Malathion			<0.05	ug/L				
MRL_CHK	Malathion		0.1	0.0800	ug/L	80	(50-150)		
MS_201208010531	Malathion	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Methoxychlor		2.0	2.18	ug/L	109	(70-130)		
LCS2	Methoxychlor		2.0	2.21	ug/L	111	(70-130)	20	1.4
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.1	0.0930	ug/L	93	(50-150)		
MS_201208010531	Methoxychlor	ND	2.0	2.18	ug/L	109	(70-130)		
LCS1	Metolachlor		2.0	1.81	ug/L	91	(70-130)		
LCS2	Metolachlor		2.0	1.92	ug/L	96	(70-130)	20	5.9
MBLK	Metolachlor			<0.025	ug/L				
MRL_CHK	Metolachlor		0.05	0.0520	ug/L	104	(50-150)		
MS_201208010531	Metolachlor	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Metribuzin		2.0	1.84	ug/L	92	(70-130)		
LCS2	Metribuzin		2.0	2.00	ug/L	100	(70-130)	20	8.3
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0350	ug/L	70	(50-150)		
MS_201208010531	Metribuzin	ND	2.0	1.97	ug/L	98	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Molinate		2.0	1.92	ug/L	96	(70-130)		
LCS2	Molinate		2.0	2.06	ug/L	103	(70-130)	20	6.5
MBLK	Molinate			<0.05	ug/L				
MRL_CHK	Molinate		0.1	0.0990	ug/L	99	(50-150)		
MS_201208010531	Molinate	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Naphthalene		2.0	1.80	ug/L	90	(70-130)		
LCS2	Naphthalene		2.0	1.87	ug/L	94	(70-130)	20	3.8
MBLK	Naphthalene			<0.05	ug/L				
MRL_CHK	Naphthalene		0.1	0.0990	ug/L	99	(50-150)		
MS_201208010531	Naphthalene	ND	2.0	1.84	ug/L	92	(70-130)		
LCS1	Parathion		2.0	1.83	ug/L	91	(70-130)		
LCS2	Parathion		2.0	1.90	ug/L	95	(70-130)	20	3.8
MBLK	Parathion			<0.05	ug/L				
MRL_CHK	Parathion		0.1	0.0820	ug/L	82	(50-150)		
MS_201208010531	Parathion	ND	2.0	1.95	ug/L	98	(70-130)		
LCS1	Pendimethalin		2.0	1.94	ug/L	97	(70-130)		
LCS2	Pendimethalin		2.0	1.99	ug/L	99	(70-130)	20	2.0
MBLK	Pendimethalin			<0.05	ug/L				
MRL_CHK	Pendimethalin		0.1	0.0740	ug/L	74	(50-150)		
MS_201208010531	Pendimethalin	ND	2.0	2.09	ug/L	105	(70-130)		
LCS1	Pentachlorophenol		8.0	8.00	ug/L	100	(70-130)		
LCS2	Pentachlorophenol		8.0	8.28	ug/L	104	(70-130)	20	3.4
MBLK	Pentachlorophenol			<0.6	ug/L				
MRL_CHK	Pentachlorophenol		0.5	0.407	ug/L	81	(50-150)		
MS_201208010531	Pentachlorophenol	ND	8.0	8.43	ug/L	105	(70-130)		
LCS1	Permethrin (mixed isomers)		4.0	3.97	ug/L	99	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	3.78	ug/L	95	(70-130)	20	4.9
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.15	0.193	ug/L	129	(50-150)		
MS_201208010531	Permethrin (mixed isomers)	ND	4.0	3.94	ug/L	98	(70-130)		
LCS1	Perylene-d12 (S)			76.7	%	77	(70-130)		
LCS2	Perylene-d12 (S)			85.4	%	85	(70-130)		
MBLK	Perylene-d12 (S)			73.9	%	74	(70-130)		
MRL_CHK	Perylene-d12 (S)			71.7	%	72	(70-130)		
MS_201208010531	Perylene-d12 (S)			89.7	%	90	(70-130)		
LCS1	Phenanthrene		2.0	1.81	ug/L	90	(70-130)		
LCS2	Phenanthrene		2.0	1.89	ug/L	95	(70-130)	20	4.3
MBLK	Phenanthrene			<0.02	ug/L				

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Laboratory QC
Report: 404386

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Phenanthrene		0.02	0.0200	ug/L	100	(50-150)		
MS_201208010531	Phenanthrene	ND	2.0	1.88	ug/L	94	(70-130)		
LCS1	Phenanthrene-d10 (I)			97.7	%	98	(50-150)		
LCS2	Phenanthrene-d10 (I)			94.4	%	94	(50-150)		
MBLK	Phenanthrene-d10 (I)			78.4	%	78	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			97.2	%	97	(50-150)		
MS_201208010531	Phenanthrene-d10 (I)			92.2	%	92	(50-150)		
LCS1	Propachlor		2.0	2.05	ug/L	103	(70-130)		
LCS2	Propachlor		2.0	2.12	ug/L	106	(70-130)	20	3.4
MBLK	Propachlor			<0.025	ug/L				
MRL_CHK	Propachlor		0.05	0.0510	ug/L	102	(50-150)		
MS_201208010531	Propachlor	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Pyrene		2.0	1.79	ug/L	90	(70-130)		
LCS2	Pyrene		2.0	1.87	ug/L	93	(70-130)	20	4.4
MBLK	Pyrene			<0.025	ug/L				
MRL_CHK	Pyrene		0.05	0.0450	ug/L	90	(50-150)		
MS_201208010531	Pyrene	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	Simazine		2.0	1.74	ug/L	87	(70-130)		
LCS2	Simazine		2.0	2.00	ug/L	100	(70-130)	20	14
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0480	ug/L	96	(50-150)		
MS_201208010531	Simazine	ND	2.0	1.97	ug/L	98	(70-130)		
LCS1	Terbacil		2.0	1.63	ug/L	82	(70-130)		
LCS2	Terbacil		2.0	2.04	ug/L	102	(70-130)	20	**23**
MBLK	Terbacil			<0.05	ug/L				
MRL_CHK	Terbacil		0.1	0.0730	ug/L	73	(50-150)		
MS_201208010531	Terbacil	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Terbuthylazine		2.0	1.82	ug/L	91	(70-130)		
LCS2	Terbuthylazine		2.0	2.15	ug/L	108	(70-130)	20	17
MBLK	Terbuthylazine			<0.2	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.103	ug/L	103	(50-150)		
MS_201208010531	Terbuthylazine	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Thiobencarb		2.0	1.73	ug/L	87	(70-130)		
LCS2	Thiobencarb		2.0	1.95	ug/L	97	(70-130)	20	12
MBLK	Thiobencarb			<0.1	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0890	ug/L	89	(50-150)		
MS_201208010531	Thiobencarb	ND	2.0	1.97	ug/L	99	(70-130)		
LCS1	trans-Nonachlor		2.0	1.85	ug/L	93	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	trans-Nonachlor		2.0	1.86	ug/L	93	(70-130)	20	0.54
MBLK	trans-Nonachlor			<0.025	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0380	ug/L	76	(50-150)		
MS_201208010531	trans-Nonachlor	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	Trifluralin		2.0	2.18	ug/L	109	(70-130)		
LCS2	Trifluralin		2.0	2.27	ug/L	114	(70-130)	20	4.0
MBLK	Trifluralin			<0.05	ug/L				
MRL_CHK	Trifluralin		0.1	0.0890	ug/L	89	(50-150)		
MS_201208010531	Trifluralin	ND	2.0	2.30	ug/L	115	(70-130)		
LCS1	Triphenylphosphate (S)			95.5	%	96	(70-130)		
LCS2	Triphenylphosphate (S)			96.0	%	96	(70-130)		
MBLK	Triphenylphosphate (S)			95.7	%	96	(70-130)		
MRL_CHK	Triphenylphosphate (S)			98.6	%	99	(70-130)		
MS_201208010531	Triphenylphosphate (S)			103	%	103	(70-130)		
QC Ref# 667040 - Nitrosamines by GCMS by EPA 521						**Analysis Date: 08/15/2012**			
LCS3	NDMA-D6 (S)			90.0	%	90	(70-130)		
MBLK	NDMA-D6 (S)			96.7	%	97	(70-130)		
MRL_CHK	NDMA-D6 (S)			100	%	100	(70-130)		
MS2_201208030191	NDMA-D6 (S)			94.8	%	95	(70-130)		
MSD2_201208030191	NDMA-D6 (S)			86.9	%	87	(70-130)		
LCS3	NDPA-D14 (I)			88.4	%	88	(50-150)		
MBLK	NDPA-D14 (I)			73.6	%	74	(50-150)		
MRL_CHK	NDPA-D14 (I)			93.4	%	93	(50-150)		
MS2_201208030191	NDPA-D14 (I)			89.4	%	89	(50-150)		
MSD2_201208030191	NDPA-D14 (I)			98.9	%	99	(50-150)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	64.8	ng/L	81	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	2.33	ng/L	116	(50-150)		
MS2_201208030191	N-Nitroso dimethylamine (NDMA)	ND	40	37.2	ng/L	91	(70-130)		
MSD2_201208030191	N-Nitroso dimethylamine (NDMA)	ND	40	36.3	ng/l	89	(70-130)	30	2.5
LCS3	N-Nitrosodiethylamine (NDEA)		80	68.0	ng/L	85	(70-130)		
MBLK	N-Nitrosodiethylamine (NDEA)			<2	ng/L				
MRL_CHK	N-Nitrosodiethylamine (NDEA)		2.0	2.06	ng/L	103	(50-150)		
MS2_201208030191	N-Nitrosodiethylamine (NDEA)		40	38.5	ng/L	96	(70-130)		
MSD2_201208030191	N-Nitrosodiethylamine (NDEA)		40	41.6	ng/L	104	(70-130)	30	7.7
LCS3	N-Nitrosodi-n-propylamin(NDPA)		80	77.4	ng/L	97	(70-130)		
MBLK	N-Nitrosodi-n-propylamin(NDPA)			<2	ng/L				
MRL_CHK	N-Nitrosodi-n-propylamin(NDPA)		2.0	2.22	ng/L	111	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201208030191	N-Nitrosodi-n-propylamin(NDPA)		40	44.1	ng/L	110	(70-130)		
MSD2_201208030191	N-Nitrosodi-n-propylamin(NDPA)		40	39.1	ng/l	98	(70-130)	30	12
QC Ref# 667125 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 08/13/2012**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.41	ug/L	108	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.14	ug/L	103	(70-130)	20	5.1
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	4.73	ug/L	95	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.55	ug/L	91	(70-130)	20	3.9
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.54	ug/L	111	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.48	ug/L	110	(70-130)	20	1.1
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.00	ug/L	100	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.36	ug/L	107	(70-130)	20	7.0
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.72	ug/L	94	(70-130)	20	6.4
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.90	ug/L	98	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.69	ug/L	94	(70-130)	20	4.4
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloropropene		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.56	ug/L	91	(70-130)	20	8.0
MBLK	1,1-Dichloropropene			<0.25	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.72	ug/L	114	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.66	ug/L	113	(70-130)	20	1.1
MBLK	1,2,3-Trichlorobenzene			<0.25	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.37	ug/L	107	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.20	ug/L	104	(70-130)	20	3.2

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 404386

Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.43	ug/L	109	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.26	ug/L	105	(70-130)	20	3.2
MBLK	1,2,4-Trichlorobenzene			<0.25	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.72	ug/L	114	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.18	ug/L	104	(70-130)	20	9.9
MBLK	1,2,4-Trimethylbenzene			<0.25	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2-Dichloroethane		5.0	4.89	ug/L	98	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.45	ug/L	89	(70-130)	20	9.4
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			94.4	%	94	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			92.6	%	93	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			89.8	%	90	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.31	ug/L	106	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.87	ug/L	97	(70-130)	20	8.6
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.63	ug/L	113	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.23	ug/L	105	(70-130)	20	7.4
MBLK	1,3,5-Trimethylbenzene			<0.25	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.27	ug/L	105	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.08	ug/L	102	(70-130)	20	3.7
MBLK	1,3-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.420	ug/L	84	(50-150)		
LCS1	2,2-Dichloropropane		5.0	5.05	ug/L	101	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.53	ug/L	91	(70-130)	20	11
MBLK	2,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	2-Butanone (MEK)		50	50.6	ug/L	101	(70-130)		
LCS2	2-Butanone (MEK)		50	51.1	ug/L	102	(70-130)	20	0.98
MBLK	2-Butanone (MEK)			<2.5	ug/L				

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	2-Butanone (MEK)		5.0	4.87	ug/L	97	(50-150)		
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	54.6	ug/L	109	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	52.9	ug/L	106	(70-130)	20	3.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.92	ug/L	98	(50-150)		
LCS1	Benzene		5.0	5.21	ug/L	104	(70-130)		
LCS2	Benzene		5.0	5.07	ug/L	101	(70-130)	20	2.7
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5.0	5.70	ug/L	114	(70-130)		
LCS2	Bromobenzene		5.0	5.23	ug/L	105	(70-130)	20	8.6
MBLK	Bromobenzene			<0.25	ug/L				
MRL_CHK	Bromobenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromochloromethane		5.0	5.34	ug/L	107	(70-130)		
LCS2	Bromochloromethane		5.0	4.80	ug/L	96	(70-130)	20	11
MBLK	Bromochloromethane			<0.25	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromodichloromethane		5.0	5.41	ug/L	108	(70-130)		
LCS2	Bromodichloromethane		5.0	4.95	ug/L	99	(70-130)	20	8.9
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Bromoethane		5.0	4.76	ug/L	95	(70-130)		
LCS2	Bromoethane		5.0	4.52	ug/L	90	(70-130)	20	5.2
MBLK	Bromoethane			<0.25	ug/L				
MRL_CHK	Bromoethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoform		5.0	6.13	ug/L	123	(70-130)		
LCS2	Bromoform		5.0	5.83	ug/L	117	(70-130)	20	5.0
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.580	ug/L	116	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.82	ug/L	116	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.01	ug/L	100	(70-130)	20	15
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.400	ug/L	80	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Carbon disulfide		5.0	4.50	ug/L	90	(70-130)		
LCS2	Carbon disulfide		5.0	4.37	ug/L	87	(70-130)	20	2.9
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.490	ug/L	98	(50-150)		
LCS1	Carbon Tetrachloride		5.0	4.98	ug/L	100	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.50	ug/L	90	(70-130)	20	10
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.450	ug/L	90	(50-150)		
LCS1	Chlorobenzene		5.0	5.59	ug/L	112	(70-130)		
LCS2	Chlorobenzene		5.0	5.31	ug/L	106	(70-130)	20	5.1
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.61	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.17	ug/L	103	(70-130)	20	8.2
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Chloroethane		5.0	5.18	ug/L	104	(70-130)		
LCS2	Chloroethane		5.0	5.25	ug/L	105	(70-130)	20	1.3
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.07	ug/L	101	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.80	ug/L	96	(70-130)	20	5.5
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	5.24	ug/L	105	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.09	ug/L	102	(70-130)	20	2.9
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.480	ug/L	96	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.14	ug/L	103	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.18	ug/L	104	(70-130)	20	0.78
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.45	ug/L	109	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.10	ug/L	102	(70-130)	20	6.6
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Dibromomethane		5.0	5.23	ug/L	105	(70-130)		
LCS2	Dibromomethane		5.0	4.91	ug/L	98	(70-130)	20	6.3

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 404386

Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Dibromomethane			<0.25	ug/L				
MRL_CHK	Dibromomethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	5.15	ug/L	103	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.96	ug/L	99	(70-130)	20	3.8
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Dichloromethane		5.0	5.18	ug/L	104	(70-130)		
LCS2	Dichloromethane		5.0	4.95	ug/L	99	(70-130)	20	4.5
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.46	ug/L	89	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.38	ug/L	88	(70-130)	20	1.8
MBLK	Di-isopropyl ether			<1.5	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.490	ug/L	98	(50-150)		
LCS1	Ethyl benzene		5.0	5.33	ug/L	107	(70-130)		
LCS2	Ethyl benzene		5.0	5.15	ug/L	103	(70-130)	20	3.4
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Hexachlorobutadiene		5.0	4.88	ug/L	98	(70-130)		
LCS2	Hexachlorobutadiene		5.0	4.69	ug/L	94	(70-130)	20	4.0
MBLK	Hexachlorobutadiene			<0.25	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Isopropylbenzene		5.0	5.61	ug/L	112	(70-130)		
LCS2	Isopropylbenzene		5.0	5.31	ug/L	106	(70-130)	20	5.5
MBLK	Isopropylbenzene			<0.25	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	m,p-Xylenes		10	11.4	ug/L	114	(70-130)		
LCS2	m,p-Xylenes		10	11.1	ug/L	111	(70-130)	20	2.7
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.960	ug/L	96	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.550	ug/L	110	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.69	ug/L	114	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.32	ug/L	106	(70-130)	20	6.7
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.69	ug/L	94	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.31	ug/L	86	(70-130)	20	8.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.460	ug/L	92	(50-150)		
LCS1	Naphthalene		5.0	6.21	ug/L	124	(70-130)		
LCS2	Naphthalene		5.0	5.71	ug/L	114	(70-130)	20	8.4
MBLK	Naphthalene			<0.25	ug/L				
MRL_CHK	Naphthalene		0.5	0.510	ug/L	102	(50-150)		
LCS1	n-Butylbenzene		5.0	5.39	ug/L	108	(70-130)		
LCS2	n-Butylbenzene		5.0	5.09	ug/L	102	(70-130)	20	5.7
MBLK	n-Butylbenzene			<0.25	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	n-Propylbenzene		5.0	5.35	ug/L	107	(70-130)		
LCS2	n-Propylbenzene		5.0	5.26	ug/L	105	(70-130)	20	1.7
MBLK	n-Propylbenzene			<0.25	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.43	ug/L	109	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.05	ug/L	101	(70-130)	20	7.3
MBLK	o-Chlorotoluene			<0.25	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.51	ug/L	110	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.24	ug/L	105	(70-130)	20	5.0
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Xylene		5.0	5.84	ug/L	117	(70-130)		
LCS2	o-Xylene		5.0	5.44	ug/L	109	(70-130)	20	7.1
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.49	ug/L	110	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.31	ug/L	106	(70-130)	20	3.3
MBLK	p-Chlorotoluene			<0.25	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	6.08	ug/L	122	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.68	ug/L	114	(70-130)	20	6.8
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.74	ug/L	115	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.32	ug/L	106	(70-130)	20	7.6
MBLK	p-Isopropyltoluene			<0.25	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.430	ug/L	86	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.49	ug/L	110	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	sec-Butylbenzene		5.0	5.16	ug/L	103	(70-130)	20	6.2
MBLK	sec-Butylbenzene			<0.25	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Styrene		5.0	5.63	ug/L	113	(70-130)		
LCS2	Styrene		5.0	5.57	ug/L	111	(70-130)	20	1.1
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.530	ug/L	106	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.72	ug/L	94	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.45	ug/L	89	(70-130)	20	5.9
MBLK	tert-amyl Methyl Ether			<1.5	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.430	ug/L	86	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.57	ug/L	91	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.34	ug/L	87	(70-130)	20	5.2
MBLK	tert-Butyl Ethyl Ether			<1.5	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.460	ug/L	92	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.44	ug/L	109	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.05	ug/L	101	(70-130)	20	7.4
MBLK	tert-Butylbenzene			<0.25	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	5.07	ug/L	101	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.74	ug/L	95	(70-130)	20	6.7
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene		5.0	5.22	ug/L	104	(70-130)		
LCS2	Toluene		5.0	4.97	ug/L	99	(70-130)	20	4.9
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.530	ug/L	106	(50-150)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			99.4	%	99	(70-130)		
MBLK	Toluene-d8 (S)			98.6	%	99	(70-130)		
MRL_CHK	Toluene-d8 (S)			102	%	102	(70-130)		
MRLLW	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.03	ug/L	101	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.86	ug/L	97	(70-130)	20	3.4
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.41	ug/L	108	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.35	ug/L	107	(70-130)	20	1.1

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	5.01	ug/L	100	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.71	ug/L	94	(70-130)	20	6.2
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.420	ug/L	84	(50-150)		
LCS1	Trichlorofluoromethane		5.0	6.04	ug/L	121	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.16	ug/L	103	(70-130)	20	16
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	5.03	ug/L	101	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.84	ug/L	97	(70-130)	20	3.9
MBLK	Trichlorotrifluoroethane(Freon			<0.25	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.500	ug/L	100	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.08	ug/L	102	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.68	ug/L	94	(70-130)	20	8.2
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.490	ug/L	98	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.230	ug/L	92	(50-150)		
QC Ref# 667163 - Explosives by LCMS by LC-MS-MS						**Analysis Date: 08/28/2012**			
LCS1	2,4,6-Trinitrotoluene (TNT)		0.5	0.560	ug/L	112	(70-130)		
LCS2	2,4,6-Trinitrotoluene (TNT)		0.5	0.577	ug/L	115	(70-130)	30	3.0
MBLK	2,4,6-Trinitrotoluene (TNT)			<0.05	ug/L				
MRL_CHK	2,4,6-Trinitrotoluene (TNT)		0.05	0.0638	ug/L	128	(50-150)		
MS_201208020287	2,4,6-Trinitrotoluene (TNT)	ND	0.5	0.338	ug/L	**68**	(70-130)		
MSD_201208020287	2,4,6-Trinitrotoluene (TNT)	ND	0.5	0.333	ug/L	**67**	(70-130)	30	1.5
LCS1	HMX		0.5	0.541	ug/L	108	(70-130)		
LCS2	HMX		0.5	0.490	ug/L	98	(70-130)	30	9.9
MBLK	HMX			<0.05	ug/L				
MRL_CHK	HMX		0.05	0.0550	ug/L	110	(50-150)		
MS_201208020287	HMX	ND	0.5	0.313	ug/L	**63**	(70-130)		
MSD_201208020287	HMX	ND	0.5	0.303	ug/L	**61**	(70-130)	30	3.3
LCS1	RDX		0.5	0.587	ug/L	117	(70-130)		
LCS2	RDX		0.5	0.578	ug/L	116	(70-130)	30	1.6
MBLK	RDX			<0.05	ug/L				
MRL_CHK	RDX		0.05	0.0605	ug/L	121	(50-150)		
MS_201208020287	RDX	ND	0.5	0.315	ug/L	**63**	(70-130)		
MSD_201208020287	RDX	ND	0.5	0.290	ug/L	**58**	(70-130)	30	8.3

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

Truesdail Laboratories, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 668320 - 1,4-Dioxane by EPA 522						**Analysis Date: 08/22/2012**			
LCS1	Dioxane		20	17.9	ug/L	90	(70-130)		
MBLK	Dioxane			<1	ug/L				
MRL_CHK	Dioxane		0.5	0.380	ug/L	76	(50-150)		
MS_201208020287	Dioxane	ND	20	18.1	ug/L	90	(70-130)		
MSD_201208020287	Dioxane	ND	20	18.1	ug/L	90	(70-130)	20	0.0
LCS1	Dioxane-d8 (S)			91.5	%	92	(70-130)		
MBLK	Dioxane-d8 (S)			77.5	%	78	(70-130)		
MRL_CHK	Dioxane-d8 (S)			88.8	%	89	(70-130)		
MS_201208020287	Dioxane-d8 (S)			93.8	%	94	(70-130)		
MSD_201208020287	Dioxane-d8 (S)			92.9	%	93	(70-130)		
QC Ref# 665570 - Disinfection ByProducts by 300.0 by EPA 300.0						**Analysis Date: 08/06/2012**			
LCS1	Chlorate by IC		200	200	ug/L	100	(90-110)		
LCS2	Chlorate by IC		200	198	ug/L	99	(90-110)	20	0.50
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	9.00	ug/L	90	(75-125)		
MS_201208020349	Chlorate by IC	ND	100	96.6	ug/L	97	(80-120)		
MSD_201208020349	Chlorate by IC	ND	100	97.2	ug/L	97	(80-120)	15	0.72
QC Ref# 665732 - Apparent Color by SM 2120B						**Analysis Date: 08/03/2012**			
DUP1_201208030282	Apparent Color	ND		ND	ACU		(0-20)		
DUP2_201208030001	Apparent Color	ND		ND	ACU		(0-20)		
MBLK	Apparent Color			<3	ACU				
QC Ref# 665756 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 08/04/2012**			
CCCH	Alachlor (Alanex)		1.0	1.10	ug/L	110	(70-130)		
LCS1	Alachlor (Alanex)		1.0	1.10	ug/L	111	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.0949	ug/L	95	(50-150)		
MS1_201208020349	Alachlor (Alanex)	ND	0.2	0.223	ug/L	111	(65-135)		
MS2_201208030246	Alachlor (Alanex)	ND	1.0	1.09	ug/L	109	(65-135)		
CCCH	Aldrin		0.1	0.110	ug/L	110	(70-130)		
LCS1	Aldrin		0.1	0.114	ug/L	114	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0113	ug/L	113	(50-150)		
MS1_201208020349	Aldrin	ND	0.02	0.0200	ug/L	100	(65-135)		
MS2_201208030246	Aldrin	ND	0.1	0.113	ug/L	113	(65-135)		
MBLK	Chlordane			<0.1	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Dieldrin		0.1	0.102	ug/L	102	(70-130)		
LCS1	Dieldrin		0.1	0.0983	ug/L	98	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.00980	ug/L	98	(50-150)		
MS1_201208020349	Dieldrin	ND	0.02	0.0200	ug/L	100	(65-135)		
MS2_201208030246	Dieldrin	ND	0.1	0.100	ug/L	100	(65-135)		
CCCH	Endrin		0.1	0.0993	ug/L	99	(70-130)		
LCS1	Endrin		0.1	0.0939	ug/L	94	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0116	ug/L	116	(50-150)		
MS1_201208020349	Endrin	ND	0.02	0.0213	ug/L	107	(65-135)		
MS2_201208030246	Endrin	ND	0.1	0.0967	ug/L	97	(65-135)		
CCCH	Heptachlor		0.1	0.104	ug/L	104	(70-130)		
LCS1	Heptachlor		0.1	0.0976	ug/L	98	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.0125	ug/L	125	(50-150)		
MS1_201208020349	Heptachlor	ND	0.02	0.0228	ug/L	114	(65-135)		
MS2_201208030246	Heptachlor	ND	0.1	0.103	ug/L	103	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.102	ug/L	101	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.0997	ug/L	100	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0119	ug/L	119	(50-150)		
MS1_201208020349	Heptachlor Epoxide	ND	0.02	0.0220	ug/L	110	(65-135)		
MS2_201208030246	Heptachlor Epoxide	ND	0.1	0.100	ug/L	100	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.0983	ug/L	98	(70-130)		
LCS1	Lindane (gamma-BHC)		0.1	0.0958	ug/L	96	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0121	ug/L	121	(50-150)		
MS1_201208020349	Lindane (gamma-BHC)	ND	0.02	0.0220	ug/L	110	(65-135)		
MS2_201208030246	Lindane (gamma-BHC)	ND	0.1	0.0980	ug/L	98	(65-135)		
CCCH	Methoxychlor		0.5	0.480	ug/L	96	(70-130)		
LCS1	Methoxychlor		0.5	0.478	ug/L	96	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0688	ug/L	138	(50-150)		
MS1_201208020349	Methoxychlor	ND	0.1	0.112	ug/L	112	(65-135)		
MS2_201208030246	Methoxychlor	ND	0.5	0.477	ug/L	95	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
CCCH	PCB 1254 Aroclor		0.5	0.554	ug/L	111	(70-130)		
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MRL_CHK	PCB 1254 Aroclor		0.1	0.0803	ug/L	80	(50-150)		
MS1_201208020349	PCB 1254 Aroclor	ND	0.5	0.519	ug/L	104	(65-135)		
MS2_201208030246	PCB 1254 Aroclor	ND	0.5	0.563	ug/L	113	(65-135)		
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			99.8	%	100	(70-130)		
LCS1	Tetrachlorometaxylene (S)			100	%	100	(70-130)		
MBLK	Tetrachlorometaxylene (S)			100	%	100	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			103	%	103	(70-130)		
MS1_201208020349	Tetrachlorometaxylene (S)			93.6	%	94	(70-130)		
MS2_201208030246	Tetrachlorometaxylene (S)			98.1	%	98	(70-130)		
MBLK	Total PCBs			<0.08	ug/L				
MBLK	Toxaphene			<0.5	ug/L				
QC Ref# 665822 - EPA Method 556 by EPA 556						**Analysis Date: 08/05/2012**			
CCCH	1,2-Dibromopropane (I)			97.4	%	97	(70-130)		
CCCL	1,2-Dibromopropane (I)			98.9	%	99	(70-130)		
CCCM	1,2-Dibromopropane (I)			100	%	101	(70-130)		
DUP1_201208020349	1,2-Dibromopropane (I)			99.8	%	100	(70-130)		
LCS1	1,2-Dibromopropane (I)			100	%	101	(70-130)		
MBLK	1,2-Dibromopropane (I)			100	%	100	(70-130)		
MRL_CHK	1,2-Dibromopropane (I)			101	%	101	(70-130)		
MS1_201208020287	1,2-Dibromopropane (I)			98.9	%	99	(70-130)		
CCCH	2,3,5,6-Tetrafluorobenzaldehyde (S)			96.1	%	96	(70-130)		
CCCL	2,3,5,6-Tetrafluorobenzaldehyde (S)			109	%	109	(70-130)		
CCCM	2,3,5,6-Tetrafluorobenzaldehyde (S)			95.7	%	96	(70-130)		
DUP1_201208020349	2,3,5,6-Tetrafluorobenzaldehyde (S)			101	%	101	(70-130)		
LCS1	2,3,5,6-Tetrafluorobenzaldehyde (S)			97.0	%	97	(70-130)		
MBLK	2,3,5,6-Tetrafluorobenzaldehyde (S)			103	%	103	(70-130)		
MRL_CHK	2,3,5,6-Tetrafluorobenzaldehyde (S)			107	%	107	(70-130)		
MS1_201208020287	2,3,5,6-Tetrafluorobenzaldehyde (S)			95.8	%	96	(70-130)		
CCCH	Acetaldehyde		10	9.44	ug/L	95	(70-130)		
CCCL	Acetaldehyde		1.0	1.02	ug/L	103	(50-150)		
CCCM	Acetaldehyde		5.0	5.64	ug/L	113	(70-130)		
DUP1_201208020349	Acetaldehyde	ND		ND	ug/L		(0-20)		

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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Acetaldehyde		5.0	4.30	ug/L	86	(60-140)		
MBLK	Acetaldehyde			<1	ug/L				
MRL_CHK	Acetaldehyde		1.0	1.10	ug/L	110	(50-150)		
MS1_201208020287	Acetaldehyde	ND	5.0	4.55	ug/L	83	(70-130)		
CCCH	Formaldehyde		50	49.2	ug/L	98	(70-130)		
CCCL	Formaldehyde		5.0	5.89	ug/L	118	(50-150)		
CCCM	Formaldehyde		25	28.3	ug/L	113	(70-130)		
DUP1_201208020349	Formaldehyde	ND		ND	ug/L		(0-20)		
LCS1	Formaldehyde		5.0	5.38	ug/L	108	(60-140)		
MBLK	Formaldehyde			<5	ug/L				
MRL_CHK	Formaldehyde		5.0	5.54	ug/L	111	(50-150)		
MS1_201208020287	Formaldehyde	ND	25	23.0	ug/L	88	(70-130)		
QC Ref# 665863 - Odor at 60 C (TON) by SM 2150B						**Analysis Date: 08/03/2012**			
DUP1_201208030246	Odor at 60 C (TON)	1.0		1.00	TON		(0-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				
QC Ref# 665902 - Surfactants by SM 5540C/EPA 425.1						**Analysis Date: 08/03/2012**			
LCS1	Surfactants		0.2	0.218	mg/L	109	(90-110)		
LCS2	Surfactants		0.2	0.196	mg/L	98	(90-110)	20	11
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0405	mg/L	81	(50-150)		
MS_201208030023	Surfactants	0.053	0.2	0.202	mg/L	**74**	(80-120)		
MSD_201208030023	Surfactants	0.053	0.2	0.208	mg/L	**77**	(80-120)	20	2.9
QC Ref# 665997 - Aldicarbs by EPA 531.2						**Analysis Date: 08/06/2012**			
CCCH	3-Hydroxycarbofuran		25	24.6	ug/L	98	(70-130)		
CCCM	3-Hydroxycarbofuran		10	9.75	ug/L	98	(70-130)		
LCS1	3-Hydroxycarbofuran		10	10.9	ug/L	109	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.25	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.504	ug/L	101	(50-150)		
MS_201208020287	3-Hydroxycarbofuran	ND	10	9.58	ug/L	96	(70-130)		
MSD_201208020287	3-Hydroxycarbofuran	ND	10	9.51	ug/L	95	(70-130)	20	0.73
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		97.0	%	97	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		109	%	109	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		80.3	%	80	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		94.5	%	95	(70-130)		
MS_201208020287	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		105	%	105	(70-130)		
MSD_201208020287	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		103	%	103	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Aldicarb (Temik)		25	24.8	ug/L	99	(70-130)		
CCCM	Aldicarb (Temik)		10	9.87	ug/L	99	(70-130)		
LCS1	Aldicarb (Temik)		10	11.0	ug/L	110	(70-130)		
MBLK	Aldicarb (Temik)			<0.25	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.493	ug/L	99	(50-150)		
MS_201208020287	Aldicarb (Temik)	ND	10	9.93	ug/L	99	(70-130)		
MSD_201208020287	Aldicarb (Temik)	ND	10	9.82	ug/L	98	(70-130)	20	1.1
CCCH	Aldicarb sulfone		25	24.6	ug/L	99	(70-130)		
CCCM	Aldicarb sulfone		10	9.18	ug/L	92	(70-130)		
LCS1	Aldicarb sulfone		10	10.9	ug/L	109	(70-130)		
MBLK	Aldicarb sulfone			<0.25	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.450	ug/L	90	(50-150)		
MS_201208020287	Aldicarb sulfone	ND	10	9.48	ug/L	95	(70-130)		
MSD_201208020287	Aldicarb sulfone	ND	10	9.95	ug/L	100	(70-130)	20	4.8
CCCH	Aldicarb sulfoxide		25	25.0	ug/L	100	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.72	ug/L	97	(70-130)		
LCS1	Aldicarb sulfoxide		10	11.9	ug/L	119	(70-130)		
MBLK	Aldicarb sulfoxide			<0.25	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.432	ug/L	87	(50-150)		
MS_201208020287	Aldicarb sulfoxide	ND	10	9.77	ug/L	98	(70-130)		
MSD_201208020287	Aldicarb sulfoxide	ND	10	10.2	ug/L	102	(70-130)	20	4.3
CCCH	Baygon		25	24.6	ug/L	99	(70-130)		
CCCM	Baygon		10	9.90	ug/L	99	(70-130)		
LCS1	Baygon		10	10.9	ug/L	109	(70-130)		
MBLK	Baygon			<0.25	ug/L				
MRL_CHK	Baygon		0.5	0.537	ug/L	107	(50-150)		
MS_201208020287	Baygon	ND	10	10.0	ug/L	100	(70-130)		
MSD_201208020287	Baygon	ND	10	9.93	ug/L	99	(70-130)	20	0.70
CCCH	Carbaryl		25	25.5	ug/L	102	(70-130)		
CCCM	Carbaryl		10	10.1	ug/L	101	(70-130)		
LCS1	Carbaryl		10	11.4	ug/L	114	(70-130)		
MBLK	Carbaryl			<0.25	ug/L				
MRL_CHK	Carbaryl		0.5	0.453	ug/L	91	(50-150)		
MS_201208020287	Carbaryl	ND	10	10.0	ug/L	100	(70-130)		
MSD_201208020287	Carbaryl	ND	10	9.83	ug/L	98	(70-130)	20	1.7
CCCH	Carbofuran (Furadan)		25	24.6	ug/L	98	(70-130)		
CCCM	Carbofuran (Furadan)		10	9.58	ug/L	96	(70-130)		
LCS1	Carbofuran (Furadan)		10	11.3	ug/L	113	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Carbofuran (Furadan)			<0.25	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.514	ug/L	103	(50-150)		
MS_201208020287	Carbofuran (Furadan)	ND	10	9.75	ug/L	98	(70-130)		
MSD_201208020287	Carbofuran (Furadan)	ND	10	9.76	ug/L	98	(70-130)	20	0.10
CCCH	Methiocarb		25	24.2	ug/L	97	(70-130)		
CCCM	Methiocarb		10	9.41	ug/L	94	(70-130)		
LCS1	Methiocarb		10	11.0	ug/L	110	(70-130)		
MBLK	Methiocarb			<0.25	ug/L				
MRL_CHK	Methiocarb		0.5	0.501	ug/L	100	(50-150)		
MS_201208020287	Methiocarb	ND	10	9.96	ug/L	100	(70-130)		
MSD_201208020287	Methiocarb	ND	10	9.81	ug/L	98	(70-130)	20	1.5
CCCH	Methomyl		25	24.9	ug/L	100	(70-130)		
CCCM	Methomyl		10	10.2	ug/L	102	(70-130)		
LCS1	Methomyl		10	11.1	ug/L	111	(70-130)		
MBLK	Methomyl			<0.25	ug/L				
MRL_CHK	Methomyl		0.5	0.452	ug/L	91	(50-150)		
MS_201208020287	Methomyl	ND	10	9.51	ug/L	95	(70-130)		
MSD_201208020287	Methomyl	ND	10	9.74	ug/L	97	(70-130)	20	2.4
CCCH	Oxamyl (Vydate)		25	25.1	ug/L	100	(70-130)		
CCCM	Oxamyl (Vydate)		10	10.0	ug/L	100	(70-130)		
LCS1	Oxamyl (Vydate)		10	11.9	ug/L	119	(70-130)		
MBLK	Oxamyl (Vydate)			<0.25	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.468	ug/L	94	(50-150)		
MS_201208020287	Oxamyl (Vydate)	ND	10	9.85	ug/L	99	(70-130)		
MSD_201208020287	Oxamyl (Vydate)	ND	10	9.79	ug/L	98	(70-130)	20	0.61
QC Ref# 666033 - Diquat and Paraquat by EPA 549.2						**Analysis Date: 08/07/2012**			
CCCH	Diquat		20	21.5	ug/L	108	(80-120)		
CCCL	Diquat		0.4	0.405	ug/L	101	(80-120)		
CCCM	Diquat		10	11.0	ug/L	110	(80-120)		
LCS1	Diquat		5.0	4.39	ug/L	88	(70-130)		
LCS2	Diquat		5.0	4.42	ug/L	88	(70-130)	20	0.68
MBLK	Diquat			<0.2	ug/L				
MRL_CHK	Diquat		0.4	0.369	ug/L	92	(50-150)		
MS_201208010402	Diquat	ND	5.0	3.14	ug/L	**63**	(70-130)		
MS2_201208030282	Diquat	ND	5.0	4.48	ug/L	90	(70-130)		
MSD_201208010402	Diquat	ND	5.0	2.76	ug/L	**55**	(70-130)	20	13
CCCH	Paraquat		20	20.5	ug/L	102	(80-120)		
CCCL	Paraquat		2.0	2.01	ug/L	101	(80-120)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Paraquat		10	10.4	ug/L	103	(80-120)		
LCS1	Paraquat		5.0	4.65	ug/L	93	(70-130)		
LCS2	Paraquat		5.0	4.80	ug/L	96	(70-130)	20	3.2
MBLK	Paraquat			<1	ug/L				
MRL_CHK	Paraquat		2.0	1.98	ug/L	99	(50-150)		
MS_201208010402	Paraquat	ND	5.0	3.99	ug/L	80	(70-130)		
MS2_201208030282	Paraquat	ND	5.0	4.11	ug/L	82	(70-130)		
MSD_201208010402	Paraquat	ND	5.0	3.97	ug/L	79	(70-130)	20	0.50
QC Ref# 666035 - Acrylamide by MWH/ LCMSMS						**Analysis Date: 08/08/2012**			
LCS1	Acrylamide		10	9.79	ug/L	98	(70-130)		
LCS2	Acrylamide		10	9.99	ug/L	100	(70-130)	20	2.0
MBLK	Acrylamide			<0.1	ug/L				
MRL_CHK	Acrylamide		0.1	0.0932	ug/L	93	(50-150)		
MS_201208030246	Acrylamide	ND	10	9.89	ug/L	99	(70-130)		
MSD_201208030246	Acrylamide	ND	10	9.83	ug/L	98	(70-130)	20	0.61
LCS1	Acrylamide C13 (I)			106	%	106	(50-150)		
LCS2	Acrylamide C13 (I)			106	%	106	(50-150)		
MBLK	Acrylamide C13 (I)			102	%	102	(50-150)		
MRL_CHK	Acrylamide C13 (I)			104	%	104	(50-150)		
MS_201208030246	Acrylamide C13 (I)			105	%	105	(50-150)		
MSD_201208030246	Acrylamide C13 (I)			106	%	106	(50-150)		
QC Ref# 666141 - 2,3,7,8-TCDD_Dioxin by EPA 1613B						**Analysis Date: 08/07/2012**			
LCS1	2,3,7,8-TCDD		200	150	pg/L	75	(73-146)		
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5.0	4.60	pg/L	92	(50-150)		
MS_201208020210	2,3,7,8-TCDD	ND	200	165	pg/L	83	(73-146)		
MSD_201208020210	2,3,7,8-TCDD	ND	200	162	pg/L	81	(73-146)	20	1.8
LCS1	C12-2,3,7,8-TCDD (S)			78.4	%	78	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			85.1	%	85	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)			81.8	%	82	(31-137)		
MS_201208020210	C12-2,3,7,8-TCDD (S)			83.8	%	84	(25-141)		
MSD_201208020210	C12-2,3,7,8-TCDD (S)			81.9	%	82	(25-141)		
QC Ref# 666221 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 08/07/2012**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			102	%	103	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			100	%	100	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			107	%	107	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			98.6	%	99	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201207310212	1,3-Dimethyl-2-nitrobenzene (S)			105	%	105	(70-130)		
LCS1	Acenaphthene-d10 (I)			73.9	%	74	(50-150)		
LCS2	Acenaphthene-d10 (I)			69.3	%	69	(50-150)		
MBLK	Acenaphthene-d10 (I)			51.2	%	51	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			78.6	%	79	(50-150)		
MS_201207310212	Acenaphthene-d10 (I)			71.4	%	71	(50-150)		
LCS1	Chrysene-d12 (I)			81.5	%	82	(50-150)		
LCS2	Chrysene-d12 (I)			78.2	%	78	(50-150)		
MBLK	Chrysene-d12 (I)			48.6	%	**49**	(50-150)		
MRL_CHK	Chrysene-d12 (I)			87.1	%	87	(50-150)		
MS_201207310212	Chrysene-d12 (I)			71.4	%	71	(50-150)		
LCS1	Perylene-d12 (S)			91.8	%	92	(70-130)		
LCS2	Perylene-d12 (S)			92.6	%	93	(70-130)		
MBLK	Perylene-d12 (S)			66.6	%	**67**	(70-130)		
MRL_CHK	Perylene-d12 (S)			82.9	%	83	(70-130)		
MS_201207310212	Perylene-d12 (S)			91.9	%	92	(70-130)		
LCS1	Phenanthrene-d10 (I)			79.3	%	79	(50-150)		
LCS2	Phenanthrene-d10 (I)			76.3	%	76	(50-150)		
MBLK	Phenanthrene-d10 (I)			58.4	%	58	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			84.5	%	85	(50-150)		
MS_201207310212	Phenanthrene-d10 (I)			77.3	%	77	(50-150)		
LCS1	Simazine		2.0	2.06	ug/L	103	(70-130)		
LCS2	Simazine		2.0	1.94	ug/L	97	(70-130)	20	6.0
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0540	ug/L	108	(50-150)		
MS_201207310212	Simazine	ND	2.0	0	ug/L	**0**	(70-130)		
LCS1	Triphenylphosphate (S)			111	%	111	(70-130)		
LCS2	Triphenylphosphate (S)			109	%	109	(70-130)		
MBLK	Triphenylphosphate (S)			117	%	117	(70-130)		
MRL_CHK	Triphenylphosphate (S)			110	%	110	(70-130)		
MS_201207310212	Triphenylphosphate (S)			111	%	111	(70-130)		

QC Ref# 666273 - Endothall by EPA 548.1 **Analysis Date: 08/08/2012**

LCS1	Endothall		25	16.5	ug/L	66	(63-144)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5.0	4.54	ug/L	91	(50-150)		
MS_201207240114	Endothall	ND	25	22.2	ug/L	89	(38-157)		
MS_201208030248	Endothall	ND	25	19.8	ug/L	79	(38-157)		
MSD_201208030248	Endothall	ND	25	17.9	ug/L	72	(38-157)	30	10

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201207240114	Endothall	ND	25	19.6	ug/L	78	(38-157)	30	12
QC Ref# 666305 - Perchlorate by EPA 314.0						**Analysis Date: 08/09/2012**			
LCS1	Perchlorate		25	25.6	ug/L	102	(85-115)		
LCS2	Perchlorate		25	25.5	ug/L	102	(85-115)	15	0.39
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.24	ug/L	106	(75-125)		
MS_201208020287	Perchlorate	ND	25	25.4	ug/L	102	(80-120)		
MSD_201208020287	Perchlorate	ND	25	25.5	ug/L	102	(80-120)	15	0.39
QC Ref# 666335 - EDB/DBCP/HAN by EPA 551.1 by EPA 551.1						**Analysis Date: 08/08/2012**			
CCCM2	1,2-Dibromopropane (S)			98.2	%	98	(80-120)		
DUP1_201208030248	1,2-Dibromopropane (S)			99.1	%	99	(80-120)		
LCS2	1,2-Dibromopropane (S)			97.1	%	97	(80-120)		
MBLK	1,2-Dibromopropane (S)			106	%	107	(80-120)		
MRL_CHK	1,2-Dibromopropane (S)			101	%	101	(80-120)		
MS2_201208030246	1,2-Dibromopropane (S)			96.2	%	96	(80-120)		
CCCM2	Dibromochloropropane (DBCP)		0.05	0.0440	ug/L	88	(80-120)		
DUP1_201208030248	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0-20)		
LCS2	Dibromochloropropane (DBCP)		0.2	0.199	ug/L	99	(80-120)		
MBLK	Dibromochloropropane (DBCP)			<0.01	ug/L				
MRL_CHK	Dibromochloropropane (DBCP)		0.01	0.0108	ug/L	108	(50-150)		
MS2_201208030246	Dibromochloropropane (DBCP)	ND	0.05	0.0441	ug/L	88	(80-120)		
CCCM2	Ethylene Dibromide (EDB)		0.05	0.0404	ug/L	81	(80-120)		
DUP1_201208030248	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
LCS2	Ethylene Dibromide (EDB)		0.2	0.227	ug/L	114	(80-120)		
MBLK	Ethylene Dibromide (EDB)			<0.01	ug/L				
MRL_CHK	Ethylene Dibromide (EDB)		0.01	0.0115	ug/L	115	(50-150)		
MS2_201208030246	Ethylene Dibromide (EDB)	ND	0.05	0.0407	ug/L	81	(80-120)		
QC Ref# 666366 - Chlorophenoxy Herbicides by EPA 515.4						**Analysis Date: 08/06/2012**			
CCCH	2,4,5-T		4.0	4.06	ug/L	101	(70-130)		
CCCM	2,4,5-T		1.0	0.957	ug/L	96	(70-130)		
LCS1	2,4,5-T		3.0	2.53	ug/L	84	(70-130)		
MBLK	2,4,5-T			<0.1	ug/L				
MRL_CHK	2,4,5-T		0.2	0.224	ug/L	112	(50-150)		
MS1_201208020287	2,4,5-T	ND	3.0	3.21	ug/L	107	(70-130)		
MSD1_201208020287	2,4,5-T	ND	3.0	3.29	ug/L	110	(70-130)	30	2.5
CCCH	2,4,5-TP (Silvex)		4.0	4.10	ug/L	102	(70-130)		
CCCM	2,4,5-TP (Silvex)		1.0	1.05	ug/L	105	(70-130)		

Spike recovery is already corrected for native results.
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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 404386

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	2,4,5-TP (Silvex)		3.0	3.28	ug/L	109	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.1	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.229	ug/L	114	(50-150)		
MS1_201208020287	2,4,5-TP (Silvex)	ND	3.0	3.26	ug/L	109	(70-130)		
MSD1_201208020287	2,4,5-TP (Silvex)	ND	3.0	3.35	ug/L	112	(70-130)	30	2.7
CCCH	2,4-D		2.0	1.82	ug/L	91	(70-130)		
CCCM	2,4-D		0.5	0.470	ug/L	94	(70-130)		
LCS1	2,4-D		1.5	1.35	ug/L	90	(70-130)		
MBLK	2,4-D			<0.05	ug/L				
MRL_CHK	2,4-D		0.1	0.100	ug/L	100	(50-150)		
MS1_201208020287	2,4-D	ND	1.5	1.45	ug/L	97	(70-130)		
MSD1_201208020287	2,4-D	ND	1.5	1.46	ug/L	97	(70-130)	30	0.69
CCCH	2,4-DB		40	40.7	ug/L	102	(70-130)		
CCCM	2,4-DB		10	9.88	ug/L	99	(70-130)		
LCS1	2,4-DB		30	28.7	ug/L	96	(70-130)		
MBLK	2,4-DB			<1	ug/L				
MRL_CHK	2,4-DB		2.0	1.45	ug/L	72	(50-150)		
MS1_201208020287	2,4-DB	ND	30	31.6	ug/L	106	(70-130)		
MSD1_201208020287	2,4-DB	ND	30	32.3	ug/L	108	(70-130)	30	1.9
CCCH	2,4-Dichlorophenyl acetic acid (S)			96.2	%	96	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			97.0	%	97	(70-130)		
LCS1	2,4-Dichlorophenyl acetic acid (S)			106	%	106	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			78.4	%	78	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			104	%	104	(70-130)		
MS1_201208020287	2,4-Dichlorophenyl acetic acid (S)			102	%	102	(70-130)		
MSD1_201208020287	2,4-Dichlorophenyl acetic acid (S)			104	%	104	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	9.92	ug/L	99	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.51	ug/L	100	(70-130)		
LCS1	3,5-Dichlorobenzoic acid		7.5	7.68	ug/L	102	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.25	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.579	ug/L	116	(50-150)		
MS1_201208020287	3,5-Dichlorobenzoic acid	ND	7.5	7.69	ug/L	102	(70-130)		
MSD1_201208020287	3,5-Dichlorobenzoic acid	ND	7.5	7.86	ug/L	105	(70-130)	30	2.2
CCCH	4,4-Dibromooctafluorobiphenyl (I)			99.8	%	100	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			98.8	%	99	(50-150)		
LCS1	4,4-Dibromooctafluorobiphenyl (I)			98.4	%	98	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			98.6	%	99	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			96.2	%	96	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201208020287	4,4-Dibromooctafluorobiphenyl (I)			96.4	%	96	(50-150)		
MSD1_201208020287	4,4-Dibromooctafluorobiphenyl (I)			97.4	%	97	(50-150)		
CCCH	Acifluorfen		4.0	4.26	ug/L	107	(70-130)		
CCCM	Acifluorfen		1.0	1.02	ug/L	102	(70-130)		
LCS1	Acifluorfen		3.0	3.07	ug/L	102	(70-130)		
MBLK	Acifluorfen			<0.1	ug/L				
MRL_CHK	Acifluorfen		0.2	0.195	ug/L	98	(50-150)		
MS1_201208020287	Acifluorfen	ND	3.0	3.43	ug/L	114	(70-130)		
MSD1_201208020287	Acifluorfen	ND	3.0	3.48	ug/L	116	(70-130)	30	1.5
CCCH	Bentazon		10	9.88	ug/L	99	(70-130)		
CCCM	Bentazon		2.5	2.53	ug/L	101	(70-130)		
LCS1	Bentazon		7.5	7.64	ug/L	102	(70-130)		
MBLK	Bentazon			<0.25	ug/L				
MRL_CHK	Bentazon		0.5	0.502	ug/L	100	(50-150)		
MS1_201208020287	Bentazon	ND	7.5	7.74	ug/L	103	(70-130)		
MSD1_201208020287	Bentazon	ND	7.5	7.83	ug/L	104	(70-130)	30	1.0
CCCH	Dalapon		20	20.0	ug/L	100	(70-130)		
CCCM	Dalapon		5.0	5.23	ug/L	105	(70-130)		
LCS1	Dalapon		15	14.8	ug/L	99	(70-130)		
MBLK	Dalapon			<0.5	ug/L				
MRL_CHK	Dalapon		1.0	0.808	ug/L	81	(50-150)		
MS1_201208020287	Dalapon	ND	15	15.6	ug/L	104	(70-130)		
MSD1_201208020287	Dalapon	ND	15	16.4	ug/L	109	(70-130)	30	5.0
CCCH	Dicamba		2.0	1.93	ug/L	97	(70-130)		
CCCM	Dicamba		0.5	0.501	ug/L	100	(70-130)		
LCS1	Dicamba		1.5	1.70	ug/L	114	(70-130)		
MBLK	Dicamba			<0.04	ug/L				
MRL_CHK	Dicamba		0.1	0.136	ug/L	136	(50-150)		
MS1_201208020287	Dicamba	ND	1.5	1.72	ug/L	115	(70-130)		
MSD1_201208020287	Dicamba	ND	1.5	1.70	ug/L	114	(70-130)	30	0.58
CCCH	Dichlorprop		10	9.59	ug/L	96	(70-130)		
CCCM	Dichlorprop		2.5	2.53	ug/L	101	(70-130)		
LCS1	Dichlorprop		7.5	7.74	ug/L	103	(70-130)		
MBLK	Dichlorprop			<0.25	ug/L				
MRL_CHK	Dichlorprop		0.5	0.550	ug/L	110	(50-150)		
MS1_201208020287	Dichlorprop	ND	7.5	7.74	ug/L	103	(70-130)		
MSD1_201208020287	Dichlorprop	ND	7.5	7.88	ug/L	105	(70-130)	30	1.8
CCCH	Dinoseb		4.0	4.08	ug/L	102	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Dinoseb		1.0	1.03	ug/L	103	(70-130)		
LCS1	Dinoseb		3.0	3.02	ug/L	101	(70-130)		
MBLK	Dinoseb			<0.1	ug/L				
MRL_CHK	Dinoseb		0.2	0.181	ug/L	90	(50-150)		
MS1_201208020287	Dinoseb	ND	3.0	3.20	ug/L	107	(70-130)		
MSD1_201208020287	Dinoseb	ND	3.0	3.25	ug/L	108	(70-130)	30	1.2
CCCH	Pentachlorophenol		0.8	0.786	ug/L	98	(70-130)		
CCCM	Pentachlorophenol		0.2	0.207	ug/L	103	(70-130)		
LCS1	Pentachlorophenol		0.6	0.644	ug/L	107	(70-130)		
MBLK	Pentachlorophenol			<0.02	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0525	ug/L	131	(50-150)		
MS1_201208020287	Pentachlorophenol	ND	0.6	0.675	ug/L	112	(70-130)		
MSD1_201208020287	Pentachlorophenol	ND	0.6	0.696	ug/L	116	(70-130)	30	3.1
CCCH	Picloram		2.0	2.03	ug/L	102	(70-130)		
CCCM	Picloram		0.5	0.508	ug/L	102	(70-130)		
LCS1	Picloram		1.5	1.54	ug/L	103	(70-130)		
MBLK	Picloram			<0.05	ug/L				
MRL_CHK	Picloram		0.1	0.0912	ug/L	91	(50-150)		
MS1_201208020287	Picloram	ND	1.5	1.59	ug/L	106	(70-130)		
MSD1_201208020287	Picloram	ND	1.5	1.61	ug/L	107	(70-130)	30	1.3
CCCH	Tot DCPA Mono&Diacid Degradate		2.0	1.91	ug/L	96	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.399	ug/L	80	(70-130)		
LCS1	Tot DCPA Mono&Diacid Degradate		1.5	1.35	ug/L	90	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.5	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.115	ug/L	115	(50-150)		
MS1_201208020287	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.67	ug/L	111	(70-130)		
MSD1_201208020287	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.76	ug/L	117	(70-130)	30	5.3

QC Ref# 666403 - Glyphosate by EPA 547 **Analysis Date: 08/09/2012**

CCCH	Glyphosate		25	26.4	ug/L	106	(80-120)		
CCCM	Glyphosate		10	10.6	ug/L	106	(80-120)		
LCS1	Glyphosate		10	10.8	ug/L	108	(80-120)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	4.83	ug/L	81	(50-150)		
MS_201208020287	Glyphosate	ND	10	9.33	ug/L	93	(83-119)		
MS2_201208020349	Glyphosate	ND	10	9.08	ug/L	91	(83-119)		
MSD_201208020287	Glyphosate	ND	10	9.00	ug/L	90	(83-119)	20	3.6

QC Ref# 666603 - 1,2,3-Trichloropropane (SIM) by CASRL 524M-TCP **Analysis Date: 08/09/2012**

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP_201208060064	1,2,3-Trichloropropane			2.50	ug/L		(0-20)	20	1.6
DUP_201208060063	1,2,3-Trichloropropane			3.00	ug/L		(0-20)	20	0.95
LCS1	1,2,3-Trichloropropane		0.01	0.00972	ug/L	97	(80-120)		
LCS2	1,2,3-Trichloropropane		0.01	0.0117	ug/L	117	(80-120)	20	19
MBLK	1,2,3-Trichloropropane			<0.005	ug/L				
MBLK	1,2,3-Trichloropropane			<0.005	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.005	0.00452	ug/L	90	(50-150)		
DUP_201208060063	Toluene-d8 (S)			92.6	%	93	(80-120)		
DUP_201208060064	Toluene-d8 (S)			85.6	%	86	(80-120)		
LCS1	Toluene-d8 (S)			87.1	%	87	(80-120)		
LCS2	Toluene-d8 (S)			86.9	%	87	(80-120)		
MBLK	Toluene-d8 (S)			87.4	%	87	(80-120)		
MBLK	Toluene-d8 (S)			86.7	%	87	(80-120)		
MRL_CHK	Toluene-d8 (S)			90.2	%	90	(80-120)		
QC Ref# 666673 - TBA by EPA 524.2 Modified by EPA 524.2 SIM						**Analysis Date: 08/08/2012**			
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	4-Bromofluorobenzene (S)			0	%				
LCS2	4-Bromofluorobenzene (S)			0	%				
MBLK	4-Bromofluorobenzene (S)			0	%				
MRL_CHK	4-Bromofluorobenzene (S)			0	%				
LCS1	t-Butyl Alcohol		5.0	5.47	ug/L	109	(70-130)		
LCS2	t-Butyl Alcohol		5.0	5.85	ug/L	117	(70-130)	20	6.7
MBLK	t-Butyl Alcohol			<1	ug/L				
MRL_CHK	t-Butyl Alcohol		2.0	2.29	ug/L	115	(50-150)		
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			100	%	100	(70-130)		
MBLK	Toluene-d8 (S)			100	%	100	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
QC Ref# 666891 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 08/13/2012**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			96.4	%	96	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			98.2	%	98	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			89.4	%	89	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			93.6	%	94	(70-130)		
MS_201208010531	1,3-Dimethyl-2-nitrobenzene (S)			95.2	%	95	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	2,4-Dinitrotoluene		2.0	1.92	ug/L	96	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	2.08	ug/L	104	(70-130)	20	8.0
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.0960	ug/L	96	(50-150)		
MS_201208010531	2,4-Dinitrotoluene	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	2,6-Dinitrotoluene		2.0	1.84	ug/L	92	(70-130)		
LCS2	2,6-Dinitrotoluene		2.0	2.04	ug/L	102	(70-130)	20	10
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.0860	ug/L	86	(50-150)		
MS_201208010531	2,6-Dinitrotoluene	ND	2.0	1.93	ug/L	97	(70-130)		
LCS1	4,4-DDD		2.0	1.81	ug/L	91	(70-130)		
LCS2	4,4-DDD		2.0	1.91	ug/L	96	(70-130)	20	5.4
MBLK	4,4-DDD			<0.05	ug/L				
MRL_CHK	4,4-DDD		0.1	0.0820	ug/L	82	(50-150)		
MS_201208010531	4,4-DDD	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	4,4-DDE		2.0	1.85	ug/L	93	(70-130)		
LCS2	4,4-DDE		2.0	1.84	ug/L	92	(70-130)	20	0.54
MBLK	4,4-DDE			<0.05	ug/L				
MRL_CHK	4,4-DDE		0.1	0.0860	ug/L	86	(50-150)		
MS_201208010531	4,4-DDE	ND	2.0	1.91	ug/L	96	(70-130)		
LCS1	4,4-DDT		2.0	1.79	ug/L	90	(70-130)		
LCS2	4,4-DDT		2.0	1.80	ug/L	90	(70-130)	20	0.56
MBLK	4,4-DDT			<0.05	ug/L				
MRL_CHK	4,4-DDT		0.1	0.0680	ug/L	68	(50-150)		
MS_201208010531	4,4-DDT	ND	2.0	1.89	ug/L	95	(70-130)		
LCS1	Acenaphthene		2.0	1.85	ug/L	93	(70-130)		
LCS2	Acenaphthene		2.0	1.95	ug/L	98	(70-130)	20	5.3
MBLK	Acenaphthene			<0.05	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0920	ug/L	92	(50-150)		
MS_201208010531	Acenaphthene	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Acenaphthene-d10 (I)			91.7	%	92	(50-150)		
LCS2	Acenaphthene-d10 (I)			88.6	%	89	(50-150)		
MBLK	Acenaphthene-d10 (I)			75.5	%	76	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			91.5	%	92	(50-150)		
MS_201208010531	Acenaphthene-d10 (I)			85.6	%	86	(50-150)		
LCS1	Acenaphthylene		2.0	1.62	ug/L	81	(70-130)		
LCS2	Acenaphthylene		2.0	1.80	ug/L	90	(70-130)	20	11
MBLK	Acenaphthylene			<0.05	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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(S) - Indicates surrogate compound.
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Acenaphthylene		0.1	0.0710	ug/L	71	(50-150)		
MS_201208010531	Acenaphthylene	ND	2.0	1.76	ug/L	88	(70-130)		
LCS1	Acetochlor		2.0	1.76	ug/L	88	(70-130)		
LCS2	Acetochlor		2.0	2.12	ug/L	106	(70-130)	20	19
MBLK	Acetochlor			<0.05	ug/L				
MRL_CHK	Acetochlor		0.05	0.0430	ug/L	86	(50-150)		
MS_201208010531	Acetochlor	ND	2.0	2.07	ug/L	104	(70-130)		
LCS1	Alachlor		2.0	1.78	ug/L	89	(70-130)		
LCS2	Alachlor		2.0	1.94	ug/L	97	(70-130)	20	8.6
MBLK	Alachlor			<0.025	ug/L				
MRL_CHK	Alachlor		0.05	0.0440	ug/L	88	(50-150)		
MS_201208010531	Alachlor	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Aldrin		2.0	1.36	ug/L	**68**	(70-130)		
LCS2	Aldrin		2.0	1.62	ug/L	81	(70-130)	20	17
MBLK	Aldrin			<0.025	ug/L				
MRL_CHK	Aldrin		0.05	0.0360	ug/L	72	(50-150)		
MS_201208010531	Aldrin	ND	2.0	1.57	ug/L	79	(70-130)		
LCS1	Alpha-BHC		2.0	1.94	ug/L	97	(70-130)		
LCS2	Alpha-BHC		2.0	2.10	ug/L	105	(70-130)	20	7.9
MBLK	Alpha-BHC			<0.05	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.100	ug/L	100	(50-150)		
MS_201208010531	Alpha-BHC	ND	2.0	2.07	ug/L	103	(70-130)		
LCS1	alpha-Chlordane		2.0	1.88	ug/L	94	(70-130)		
LCS2	alpha-Chlordane		2.0	1.95	ug/L	97	(70-130)	20	3.7
MBLK	alpha-Chlordane			<0.025	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0580	ug/L	116	(50-150)		
MS_201208010531	alpha-Chlordane	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Anthracene		2.0	1.76	ug/L	88	(70-130)		
LCS2	Anthracene		2.0	1.86	ug/L	93	(70-130)	20	5.5
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0170	ug/L	85	(50-150)		
MS_201208010531	Anthracene	ND	2.0	1.89	ug/L	95	(70-130)		
LCS1	Atrazine		2.0	1.95	ug/L	98	(70-130)		
LCS2	Atrazine		2.0	2.10	ug/L	105	(70-130)	20	7.4
MBLK	Atrazine			<0.025	ug/L				
MRL_CHK	Atrazine		0.05	0.0460	ug/L	92	(50-150)		
MS_201208010531	Atrazine	ND	2.0	2.13	ug/L	107	(70-130)		
LCS1	Benz(a)Anthracene		2.0	1.58	ug/L	79	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Benz(a)Anthracene		2.0	1.69	ug/L	84	(70-130)	20	6.7
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0500	ug/L	100	(50-150)		
MS_201208010531	Benz(a)Anthracene	ND	2.0	1.81	ug/L	91	(70-130)		
LCS1	Benzo(a)pyrene		2.0	1.71	ug/L	86	(70-130)		
LCS2	Benzo(a)pyrene		2.0	1.72	ug/L	86	(70-130)	20	0.58
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0140	ug/L	70	(50-150)		
MS_201208010531	Benzo(a)pyrene	ND	2.0	1.75	ug/L	88	(70-130)		
LCS1	Benzo(b)Fluoranthene		2.0	1.84	ug/L	92	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	1.93	ug/L	97	(70-130)	20	4.8
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0150	ug/L	75	(50-150)		
MS_201208010531	Benzo(b)Fluoranthene	ND	2.0	1.88	ug/L	94	(70-130)		
LCS1	Benzo(g,h,i)Perylene		2.0	1.70	ug/L	85	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	1.74	ug/L	87	(70-130)	20	2.3
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0320	ug/L	64	(50-150)		
MS_201208010531	Benzo(g,h,i)Perylene	ND	2.0	1.70	ug/L	85	(70-130)		
LCS1	Benzo(k)Fluoranthene		2.0	1.95	ug/L	98	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	1.93	ug/L	96	(70-130)	20	1.0
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0200	ug/L	100	(50-150)		
MS_201208010531	Benzo(k)Fluoranthene	ND	2.0	1.95	ug/L	98	(70-130)		
LCS1	Beta-BHC		2.0	1.91	ug/L	95	(70-130)		
LCS2	Beta-BHC		2.0	2.02	ug/L	101	(70-130)	20	5.6
MBLK	Beta-BHC			<0.05	ug/L				
MRL_CHK	Beta-BHC		0.1	0.0780	ug/L	78	(50-150)		
MS_201208010531	Beta-BHC	ND	2.0	2.14	ug/L	107	(70-130)		
LCS1	Bromacil		2.0	1.80	ug/L	90	(70-130)		
LCS2	Bromacil		2.0	1.97	ug/L	98	(70-130)	20	9.0
MBLK	Bromacil			<0.05	ug/L				
MRL_CHK	Bromacil		0.1	0.0760	ug/L	76	(50-150)		
MS_201208010531	Bromacil	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	Butachlor		2.0	1.76	ug/L	88	(70-130)		
LCS2	Butachlor		2.0	1.91	ug/L	96	(70-130)	20	8.2
MBLK	Butachlor			<0.025	ug/L				
MRL_CHK	Butachlor		0.05	0.0420	ug/L	84	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201208010531	Butachlor	ND	2.0	1.99	ug/L	100	(70-130)		
LCS1	Butylbenzylphthalate		2.0	1.71	ug/L	86	(70-130)		
LCS2	Butylbenzylphthalate		2.0	1.78	ug/L	89	(70-130)	20	4.0
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.138	ug/L	92	(50-150)		
MS_201208010531	Butylbenzylphthalate	ND	2.0	1.90	ug/L	95	(70-130)		
LCS1	Caffeine by method 525mod		2.0	1.50	ug/L	75	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.60	ug/L	80	(45-137)	20	5.8
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0370	ug/L	74	(50-150)		
MS_201208010531	Caffeine by method 525mod	ND	2.0	1.60	ug/L	80	(46-144)		
LCS1	Chlorobenzilate		2.0	1.73	ug/L	86	(70-130)		
LCS2	Chlorobenzilate		2.0	1.84	ug/L	92	(70-130)	20	6.2
MBLK	Chlorobenzilate			<0.05	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.0750	ug/L	75	(50-150)		
MS_201208010531	Chlorobenzilate	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Chloroneb		2.0	1.89	ug/L	95	(70-130)		
LCS2	Chloroneb		2.0	2.03	ug/L	102	(70-130)	20	7.1
MBLK	Chloroneb			<0.05	ug/L				
MRL_CHK	Chloroneb		0.1	0.105	ug/L	105	(50-150)		
MS_201208010531	Chloroneb	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	1.88	ug/L	94	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	1.98	ug/L	99	(70-130)	20	5.2
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0360	ug/L	72	(50-150)		
MS_201208010531	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Chlorpyrifos (Dursban)		2.0	1.68	ug/L	84	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	1.90	ug/L	95	(70-130)	20	12
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0380	ug/L	76	(50-150)		
MS_201208010531	Chlorpyrifos (Dursban)	ND	2.0	1.93	ug/L	96	(70-130)		
LCS1	Chrysene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Chrysene		2.0	1.90	ug/L	95	(70-130)	20	0.53
MBLK	Chrysene			<0.01	ug/L				
MRL_CHK	Chrysene		0.02	0.0210	ug/L	105	(50-150)		
MS_201208010531	Chrysene	ND	2.0	1.91	ug/L	96	(70-130)		
LCS1	Chrysene-d12 (I)			82.2	%	82	(50-150)		
LCS2	Chrysene-d12 (I)			82.0	%	82	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chrysene-d12 (I)			54.9	%	55	(50-150)		
MRL_CHK	Chrysene-d12 (I)			78.3	%	78	(50-150)		
MS_201208010531	Chrysene-d12 (I)			85.8	%	86	(50-150)		
LCS1	Delta-BHC		2.0	1.80	ug/L	90	(70-130)		
LCS2	Delta-BHC		2.0	1.90	ug/L	95	(70-130)	20	5.4
MBLK	Delta-BHC			<0.05	ug/L				
MRL_CHK	Delta-BHC		0.1	0.0770	ug/L	77	(50-150)		
MS_201208010531	Delta-BHC	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Di-(2-Ethylhexyl)adipate		2.0	1.84	ug/L	92	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	1.82	ug/L	91	(70-130)	20	1.1
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.257	ug/L	86	(50-150)		
MS_201208010531	Di-(2-Ethylhexyl)adipate	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	Di(2-Ethylhexyl)phthalate		2.0	2.04	ug/L	102	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	1.92	ug/L	96	(70-130)	20	6.1
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.556	ug/L	93	(50-150)		
MS_201208010531	Di(2-Ethylhexyl)phthalate	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Diazinon (Qualitative)		2.0	1.58	ug/L	79	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.75	ug/L	88	(70-130)	20	9.6
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.0740	ug/L	74	(50-150)		
MS_201208010531	Diazinon (Qualitative)	ND	2.0	1.79	ug/L	90	(70-130)		
LCS1	Dibenz(a,h)Anthracene		2.0	1.66	ug/L	83	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	1.66	ug/L	83	(70-130)	20	0.0
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0300	ug/L	60	(50-150)		
MS_201208010531	Dibenz(a,h)Anthracene	ND	2.0	1.63	ug/L	82	(70-130)		
LCS1	Dichlorvos (DDVP)		2.0	1.84	ug/L	92	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	1.98	ug/L	99	(70-130)	20	7.3
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0500	ug/L	100	(50-150)		
MS_201208010531	Dichlorvos (DDVP)	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Dieldrin		2.0	1.66	ug/L	83	(70-130)		
LCS2	Dieldrin		2.0	1.78	ug/L	89	(70-130)	20	7.0
MBLK	Dieldrin			<0.05	ug/L				
MRL_CHK	Dieldrin		0.1	0.0890	ug/L	89	(50-150)		
MS_201208010531	Dieldrin	ND	2.0	1.84	ug/L	92	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Diethylphthalate		2.0	2.00	ug/L	100	(70-130)		
LCS2	Diethylphthalate		2.0	2.18	ug/L	109	(70-130)	20	8.6
MBLK	Diethylphthalate			<0.15	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.161	ug/L	107	(50-150)		
MS_201208010531	Diethylphthalate	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Dimethoate		2.0	1.42	ug/L	71	(35-100)		
LCS2	Dimethoate		2.0	1.68	ug/L	84	(35-100)	20	17
MBLK	Dimethoate			<0.05	ug/L				
MRL_CHK	Dimethoate		0.1	0.0670	ug/L	67	(35-100)		
MS_201208010531	Dimethoate	ND	2.0	1.65	ug/L	82	(34-111)		
LCS1	Dimethylphthalate		2.0	1.91	ug/L	96	(70-130)		
LCS2	Dimethylphthalate		2.0	2.05	ug/L	103	(70-130)	20	7.1
MBLK	Dimethylphthalate			<0.15	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.294	ug/L	98	(50-150)		
MS_201208010531	Dimethylphthalate	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	Di-n-Butylphthalate		4.0	3.78	ug/L	94	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	3.95	ug/L	99	(70-130)	20	4.4
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.288	ug/L	96	(50-150)		
MS_201208010531	Di-n-Butylphthalate	ND	4.0	4.04	ug/L	101	(70-130)		
LCS1	Di-N-octylphthalate		2.0	2.06	ug/L	103	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.98	ug/L	99	(70-130)	20	3.5
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.0690	ug/L	69	(50-150)		
MS_201208010531	Di-N-octylphthalate	ND	2.0	2.03	ug/L	101	(70-130)		
LCS1	Endosulfan I (Alpha)		2.0	1.76	ug/L	88	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	1.88	ug/L	94	(70-130)	20	6.6
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0870	ug/L	87	(50-150)		
MS_201208010531	Endosulfan I (Alpha)	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Endosulfan II (Beta)		2.0	1.69	ug/L	85	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	1.77	ug/L	89	(70-130)	20	4.6
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.0700	ug/L	70	(50-150)		
MS_201208010531	Endosulfan II (Beta)	ND	2.0	1.85	ug/L	92	(70-130)		
LCS1	Endosulfan Sulfate		2.0	1.80	ug/L	90	(70-130)		
LCS2	Endosulfan Sulfate		2.0	1.86	ug/L	93	(70-130)	20	3.3
MBLK	Endosulfan Sulfate			<0.05	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Endosulfan Sulfate		0.1	0.0550	ug/L	55	(50-150)		
MS_201208010531	Endosulfan Sulfate	ND	2.0	1.98	ug/L	99	(70-130)		
LCS1	Endrin		2.0	1.69	ug/L	85	(70-130)		
LCS2	Endrin		2.0	1.81	ug/L	91	(70-130)	20	6.9
MBLK	Endrin			<0.05	ug/L				
MRL_CHK	Endrin		0.1	0.0920	ug/L	92	(50-150)		
MS_201208010531	Endrin	ND	2.0	1.87	ug/L	94	(70-130)		
LCS1	Endrin Aldehyde		2.0	1.58	ug/L	79	(70-130)		
LCS2	Endrin Aldehyde		2.0	1.69	ug/L	84	(70-130)	20	6.7
MBLK	Endrin Aldehyde			<0.05	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0900	ug/L	90	(50-150)		
MS_201208010531	Endrin Aldehyde	ND	2.0	1.72	ug/L	86	(70-130)		
LCS1	EPTC		2.0	1.92	ug/L	96	(70-130)		
LCS2	EPTC		2.0	2.04	ug/L	102	(70-130)	20	6.1
MBLK	EPTC			<0.05	ug/L				
MRL_CHK	EPTC		0.1	0.0980	ug/L	98	(50-150)		
MS_201208010531	EPTC	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	Fluoranthene		2.0	1.77	ug/L	89	(70-130)		
LCS2	Fluoranthene		2.0	1.85	ug/L	93	(70-130)	20	4.4
MBLK	Fluoranthene			<0.05	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0420	ug/L	84	(50-150)		
MS_201208010531	Fluoranthene	ND	2.0	1.95	ug/L	98	(70-130)		
LCS1	Fluorene		2.0	1.87	ug/L	93	(70-130)		
LCS2	Fluorene		2.0	1.98	ug/L	99	(70-130)	20	5.7
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0490	ug/L	98	(50-150)		
MS_201208010531	Fluorene	ND	2.0	2.00	ug/L	100	(70-130)		
LCS1	gamma-Chlordane		2.0	1.75	ug/L	87	(70-130)		
LCS2	gamma-Chlordane		2.0	1.87	ug/L	93	(70-130)	20	6.6
MBLK	gamma-Chlordane			<0.025	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0490	ug/L	98	(50-150)		
MS_201208010531	gamma-Chlordane	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Heptachlor		2.0	1.75	ug/L	87	(70-130)		
LCS2	Heptachlor		2.0	1.89	ug/L	94	(70-130)	20	7.7
MBLK	Heptachlor			<0.015	ug/L				
MRL_CHK	Heptachlor		0.04	0.0360	ug/L	90	(50-150)		
MS_201208010531	Heptachlor	ND	2.0	1.92	ug/L	96	(70-130)		
LCS1	Heptachlor Epoxide (isomer B)		2.0	1.94	ug/L	97	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Heptachlor Epoxide (isomer B)		2.0	1.92	ug/L	96	(70-130)	20	1.0
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0500	ug/L	100	(50-150)		
MS_201208010531	Heptachlor Epoxide (isomer B)	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Hexachlorobenzene		2.0	1.96	ug/L	98	(70-130)		
LCS2	Hexachlorobenzene		2.0	2.05	ug/L	102	(70-130)	20	4.5
MBLK	Hexachlorobenzene			<0.025	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0540	ug/L	108	(50-150)		
MS_201208010531	Hexachlorobenzene	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Hexachlorocyclopentadiene		2.0	1.76	ug/L	88	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	1.77	ug/L	89	(70-130)	20	0.57
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0410	ug/L	82	(50-150)		
MS_201208010531	Hexachlorocyclopentadiene	ND	2.0	1.75	ug/L	87	(70-130)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	1.64	ug/L	82	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	1.67	ug/L	84	(70-130)	20	1.8
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0300	ug/L	60	(50-150)		
MS_201208010531	Indeno(1,2,3,c,d)Pyrene	ND	2.0	1.67	ug/L	84	(70-130)		
LCS1	Isophorone		2.0	1.68	ug/L	84	(70-130)		
LCS2	Isophorone		2.0	1.99	ug/L	99	(70-130)	20	17
MBLK	Isophorone			<0.25	ug/L				
MRL_CHK	Isophorone		0.1	0.0900	ug/L	90	(50-150)		
MS_201208010531	Isophorone	ND	2.0	1.68	ug/L	84	(70-130)		
LCS1	Lindane		2.0	1.94	ug/L	97	(70-130)		
LCS2	Lindane		2.0	2.06	ug/L	103	(70-130)	20	6.0
MBLK	Lindane			<0.02	ug/L				
MRL_CHK	Lindane		0.04	0.0420	ug/L	105	(50-150)		
MS_201208010531	Lindane	ND	2.0	2.11	ug/L	106	(70-130)		
LCS1	Malathion		2.0	1.78	ug/L	89	(70-130)		
LCS2	Malathion		2.0	1.91	ug/L	96	(70-130)	20	7.0
MBLK	Malathion			<0.05	ug/L				
MRL_CHK	Malathion		0.1	0.0800	ug/L	80	(50-150)		
MS_201208010531	Malathion	ND	2.0	2.06	ug/L	103	(70-130)		
LCS1	Methoxychlor		2.0	2.18	ug/L	109	(70-130)		
LCS2	Methoxychlor		2.0	2.21	ug/L	111	(70-130)	20	1.4
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.1	0.0930	ug/L	93	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201208010531	Methoxychlor	ND	2.0	2.18	ug/L	109	(70-130)		
LCS1	Metolachlor		2.0	1.81	ug/L	91	(70-130)		
LCS2	Metolachlor		2.0	1.92	ug/L	96	(70-130)	20	5.9
MBLK	Metolachlor			<0.025	ug/L				
MRL_CHK	Metolachlor		0.05	0.0520	ug/L	104	(50-150)		
MS_201208010531	Metolachlor	ND	2.0	1.94	ug/L	97	(70-130)		
LCS1	Metribuzin		2.0	1.84	ug/L	92	(70-130)		
LCS2	Metribuzin		2.0	2.00	ug/L	100	(70-130)	20	8.3
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0350	ug/L	70	(50-150)		
MS_201208010531	Metribuzin	ND	2.0	1.97	ug/L	98	(70-130)		
LCS1	Molinate		2.0	1.92	ug/L	96	(70-130)		
LCS2	Molinate		2.0	2.06	ug/L	103	(70-130)	20	6.5
MBLK	Molinate			<0.05	ug/L				
MRL_CHK	Molinate		0.1	0.0990	ug/L	99	(50-150)		
MS_201208010531	Molinate	ND	2.0	2.02	ug/L	101	(70-130)		
LCS1	Naphthalene		2.0	1.80	ug/L	90	(70-130)		
LCS2	Naphthalene		2.0	1.87	ug/L	94	(70-130)	20	3.8
MBLK	Naphthalene			<0.05	ug/L				
MRL_CHK	Naphthalene		0.1	0.0990	ug/L	99	(50-150)		
MS_201208010531	Naphthalene	ND	2.0	1.84	ug/L	92	(70-130)		
LCS1	Parathion		2.0	1.83	ug/L	91	(70-130)		
LCS2	Parathion		2.0	1.90	ug/L	95	(70-130)	20	3.8
MBLK	Parathion			<0.05	ug/L				
MRL_CHK	Parathion		0.1	0.0820	ug/L	82	(50-150)		
MS_201208010531	Parathion	ND	2.0	1.95	ug/L	98	(70-130)		
LCS1	Pendimethalin		2.0	1.94	ug/L	97	(70-130)		
LCS2	Pendimethalin		2.0	1.99	ug/L	99	(70-130)	20	2.0
MBLK	Pendimethalin			<0.05	ug/L				
MRL_CHK	Pendimethalin		0.1	0.0740	ug/L	74	(50-150)		
MS_201208010531	Pendimethalin	ND	2.0	2.09	ug/L	105	(70-130)		
LCS1	Pentachlorophenol		8.0	8.00	ug/L	100	(70-130)		
LCS2	Pentachlorophenol		8.0	8.28	ug/L	104	(70-130)	20	3.4
MBLK	Pentachlorophenol			<0.6	ug/L				
MRL_CHK	Pentachlorophenol		0.5	0.407	ug/L	81	(50-150)		
MS_201208010531	Pentachlorophenol	ND	8.0	8.43	ug/L	105	(70-130)		
LCS1	Permethrin (mixed isomers)		4.0	3.97	ug/L	99	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	3.78	ug/L	95	(70-130)	20	4.9

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.15	0.193	ug/L	129	(50-150)		
MS_201208010531	Permethrin (mixed isomers)	ND	4.0	3.94	ug/L	98	(70-130)		
LCS1	Perylene-d12 (S)			76.7	%	77	(70-130)		
LCS2	Perylene-d12 (S)			85.4	%	85	(70-130)		
MBLK	Perylene-d12 (S)			73.9	%	74	(70-130)		
MRL_CHK	Perylene-d12 (S)			71.7	%	72	(70-130)		
MS_201208010531	Perylene-d12 (S)			89.7	%	90	(70-130)		
LCS1	Phenanthrene		2.0	1.81	ug/L	90	(70-130)		
LCS2	Phenanthrene		2.0	1.89	ug/L	95	(70-130)	20	4.3
MBLK	Phenanthrene			<0.02	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0200	ug/L	100	(50-150)		
MS_201208010531	Phenanthrene	ND	2.0	1.88	ug/L	94	(70-130)		
LCS1	Phenanthrene-d10 (I)			97.7	%	98	(50-150)		
LCS2	Phenanthrene-d10 (I)			94.4	%	94	(50-150)		
MBLK	Phenanthrene-d10 (I)			78.4	%	78	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			97.2	%	97	(50-150)		
MS_201208010531	Phenanthrene-d10 (I)			92.2	%	92	(50-150)		
LCS1	Propachlor		2.0	2.05	ug/L	103	(70-130)		
LCS2	Propachlor		2.0	2.12	ug/L	106	(70-130)	20	3.4
MBLK	Propachlor			<0.025	ug/L				
MRL_CHK	Propachlor		0.05	0.0510	ug/L	102	(50-150)		
MS_201208010531	Propachlor	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Pyrene		2.0	1.79	ug/L	90	(70-130)		
LCS2	Pyrene		2.0	1.87	ug/L	93	(70-130)	20	4.4
MBLK	Pyrene			<0.025	ug/L				
MRL_CHK	Pyrene		0.05	0.0450	ug/L	90	(50-150)		
MS_201208010531	Pyrene	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	Simazine		2.0	1.74	ug/L	87	(70-130)		
LCS2	Simazine		2.0	2.00	ug/L	100	(70-130)	20	14
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0480	ug/L	96	(50-150)		
MS_201208010531	Simazine	ND	2.0	1.97	ug/L	98	(70-130)		
LCS1	Terbacil		2.0	1.63	ug/L	82	(70-130)		
LCS2	Terbacil		2.0	2.04	ug/L	102	(70-130)	20	**23**
MBLK	Terbacil			<0.05	ug/L				
MRL_CHK	Terbacil		0.1	0.0730	ug/L	73	(50-150)		
MS_201208010531	Terbacil	ND	2.0	2.02	ug/L	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Terbuthylazine		2.0	1.82	ug/L	91	(70-130)		
LCS2	Terbuthylazine		2.0	2.15	ug/L	108	(70-130)	20	17
MBLK	Terbuthylazine			<0.2	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.103	ug/L	103	(50-150)		
MS_201208010531	Terbuthylazine	ND	2.0	2.12	ug/L	106	(70-130)		
LCS1	Thiobencarb		2.0	1.73	ug/L	87	(70-130)		
LCS2	Thiobencarb		2.0	1.95	ug/L	97	(70-130)	20	12
MBLK	Thiobencarb			<0.1	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0890	ug/L	89	(50-150)		
MS_201208010531	Thiobencarb	ND	2.0	1.97	ug/L	99	(70-130)		
LCS1	trans-Nonachlor		2.0	1.85	ug/L	93	(70-130)		
LCS2	trans-Nonachlor		2.0	1.86	ug/L	93	(70-130)	20	0.54
MBLK	trans-Nonachlor			<0.025	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0380	ug/L	76	(50-150)		
MS_201208010531	trans-Nonachlor	ND	2.0	1.96	ug/L	98	(70-130)		
LCS1	Trifluralin		2.0	2.18	ug/L	109	(70-130)		
LCS2	Trifluralin		2.0	2.27	ug/L	114	(70-130)	20	4.0
MBLK	Trifluralin			<0.05	ug/L				
MRL_CHK	Trifluralin		0.1	0.0890	ug/L	89	(50-150)		
MS_201208010531	Trifluralin	ND	2.0	2.30	ug/L	115	(70-130)		
LCS1	Triphenylphosphate (S)			95.5	%	96	(70-130)		
LCS2	Triphenylphosphate (S)			96.0	%	96	(70-130)		
MBLK	Triphenylphosphate (S)			95.7	%	96	(70-130)		
MRL_CHK	Triphenylphosphate (S)			98.6	%	99	(70-130)		
MS_201208010531	Triphenylphosphate (S)			103	%	103	(70-130)		
QC Ref# 667040 - Nitrosamines by GCMS by EPA 521						**Analysis Date: 08/15/2012**			
LCS3	NDMA-D6 (S)			90.0	%	90	(70-130)		
MBLK	NDMA-D6 (S)			96.7	%	97	(70-130)		
MRL_CHK	NDMA-D6 (S)			100	%	100	(70-130)		
MS2_201208030191	NDMA-D6 (S)			94.8	%	95	(70-130)		
MSD2_201208030191	NDMA-D6 (S)			86.9	%	87	(70-130)		
LCS3	NDPA-D14 (I)			88.4	%	88	(50-150)		
MBLK	NDPA-D14 (I)			73.6	%	74	(50-150)		
MRL_CHK	NDPA-D14 (I)			93.4	%	93	(50-150)		
MS2_201208030191	NDPA-D14 (I)			89.4	%	89	(50-150)		
MSD2_201208030191	NDPA-D14 (I)			98.9	%	99	(50-150)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	64.8	ng/L	81	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	2.33	ng/L	116	(50-150)		
MS2_201208030191	N-Nitroso dimethylamine (NDMA)	ND	40	37.2	ng/L	91	(70-130)		
MSD2_201208030191	N-Nitroso dimethylamine (NDMA)	ND	40	36.3	ng/l	89	(70-130)	30	2.5
LCS3	N-Nitrosodiethylamine (NDEA)		80	68.0	ng/L	85	(70-130)		
MBLK	N-Nitrosodiethylamine (NDEA)			<2	ng/L				
MRL_CHK	N-Nitrosodiethylamine (NDEA)		2.0	2.06	ng/L	103	(50-150)		
MS2_201208030191	N-Nitrosodiethylamine (NDEA)		40	38.5	ng/L	96	(70-130)		
MSD2_201208030191	N-Nitrosodiethylamine (NDEA)		40	41.6	ng/L	104	(70-130)	30	7.7
LCS3	N-Nitrosodi-n-propylamin(NDPA)		80	77.4	ng/L	97	(70-130)		
MBLK	N-Nitrosodi-n-propylamin(NDPA)			<2	ng/L				
MRL_CHK	N-Nitrosodi-n-propylamin(NDPA)		2.0	2.22	ng/L	111	(50-150)		
MS2_201208030191	N-Nitrosodi-n-propylamin(NDPA)		40	44.1	ng/L	110	(70-130)		
MSD2_201208030191	N-Nitrosodi-n-propylamin(NDPA)		40	39.1	ng/l	98	(70-130)	30	12
QC Ref# 667125 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 08/13/2012**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.41	ug/L	108	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.14	ug/L	103	(70-130)	20	5.1
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	4.73	ug/L	95	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.55	ug/L	91	(70-130)	20	3.9
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.54	ug/L	111	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.48	ug/L	110	(70-130)	20	1.1
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.00	ug/L	100	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.36	ug/L	107	(70-130)	20	7.0
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.72	ug/L	94	(70-130)	20	6.4
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.90	ug/L	98	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.69	ug/L	94	(70-130)	20	4.4
MBLK	1,1-Dichloroethylene			<0.25	ug/L				

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloropropene		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.56	ug/L	91	(70-130)	20	8.0
MBLK	1,1-Dichloropropene			<0.25	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.72	ug/L	114	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.66	ug/L	113	(70-130)	20	1.1
MBLK	1,2,3-Trichlorobenzene			<0.25	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.37	ug/L	107	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.20	ug/L	104	(70-130)	20	3.2
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.43	ug/L	109	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.26	ug/L	105	(70-130)	20	3.2
MBLK	1,2,4-Trichlorobenzene			<0.25	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.72	ug/L	114	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.18	ug/L	104	(70-130)	20	9.9
MBLK	1,2,4-Trimethylbenzene			<0.25	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2-Dichloroethane		5.0	4.89	ug/L	98	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.45	ug/L	89	(70-130)	20	9.4
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			94.4	%	94	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			92.6	%	93	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			89.8	%	90	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.31	ug/L	106	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.87	ug/L	97	(70-130)	20	8.6
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.63	ug/L	113	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.23	ug/L	105	(70-130)	20	7.4
MBLK	1,3,5-Trimethylbenzene			<0.25	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.450	ug/L	90	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,3-Dichloropropane		5.0	5.27	ug/L	105	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.08	ug/L	102	(70-130)	20	3.7
MBLK	1,3-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.420	ug/L	84	(50-150)		
LCS1	2,2-Dichloropropane		5.0	5.05	ug/L	101	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.53	ug/L	91	(70-130)	20	11
MBLK	2,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	2-Butanone (MEK)		50	50.6	ug/L	101	(70-130)		
LCS2	2-Butanone (MEK)		50	51.1	ug/L	102	(70-130)	20	0.98
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.87	ug/L	97	(50-150)		
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	54.6	ug/L	109	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	52.9	ug/L	106	(70-130)	20	3.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.92	ug/L	98	(50-150)		
LCS1	Benzene		5.0	5.21	ug/L	104	(70-130)		
LCS2	Benzene		5.0	5.07	ug/L	101	(70-130)	20	2.7
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5.0	5.70	ug/L	114	(70-130)		
LCS2	Bromobenzene		5.0	5.23	ug/L	105	(70-130)	20	8.6
MBLK	Bromobenzene			<0.25	ug/L				
MRL_CHK	Bromobenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromochloromethane		5.0	5.34	ug/L	107	(70-130)		
LCS2	Bromochloromethane		5.0	4.80	ug/L	96	(70-130)	20	11
MBLK	Bromochloromethane			<0.25	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromodichloromethane		5.0	5.41	ug/L	108	(70-130)		
LCS2	Bromodichloromethane		5.0	4.95	ug/L	99	(70-130)	20	8.9
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	Bromoethane		5.0	4.76	ug/L	95	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Bromoethane		5.0	4.52	ug/L	90	(70-130)	20	5.2
MBLK	Bromoethane			<0.25	ug/L				
MRL_CHK	Bromoethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoform		5.0	6.13	ug/L	123	(70-130)		
LCS2	Bromoform		5.0	5.83	ug/L	117	(70-130)	20	5.0
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.580	ug/L	116	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.82	ug/L	116	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.01	ug/L	100	(70-130)	20	15
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.400	ug/L	80	(50-150)		
LCS1	Carbon disulfide		5.0	4.50	ug/L	90	(70-130)		
LCS2	Carbon disulfide		5.0	4.37	ug/L	87	(70-130)	20	2.9
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.490	ug/L	98	(50-150)		
LCS1	Carbon Tetrachloride		5.0	4.98	ug/L	100	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.50	ug/L	90	(70-130)	20	10
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.450	ug/L	90	(50-150)		
LCS1	Chlorobenzene		5.0	5.59	ug/L	112	(70-130)		
LCS2	Chlorobenzene		5.0	5.31	ug/L	106	(70-130)	20	5.1
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.61	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.17	ug/L	103	(70-130)	20	8.2
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Chloroethane		5.0	5.18	ug/L	104	(70-130)		
LCS2	Chloroethane		5.0	5.25	ug/L	105	(70-130)	20	1.3
MBLK	Chloroethane			<0.25	ug/L				
MRL_CHK	Chloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.07	ug/L	101	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.80	ug/L	96	(70-130)	20	5.5
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.480	ug/L	96	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	5.24	ug/L	105	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.09	ug/L	102	(70-130)	20	2.9
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.480	ug/L	96	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.14	ug/L	103	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.18	ug/L	104	(70-130)	20	0.78
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.45	ug/L	109	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.10	ug/L	102	(70-130)	20	6.6
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Dibromomethane		5.0	5.23	ug/L	105	(70-130)		
LCS2	Dibromomethane		5.0	4.91	ug/L	98	(70-130)	20	6.3
MBLK	Dibromomethane			<0.25	ug/L				
MRL_CHK	Dibromomethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	5.15	ug/L	103	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.96	ug/L	99	(70-130)	20	3.8
MBLK	Dichlorodifluoromethane			<0.25	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Dichloromethane		5.0	5.18	ug/L	104	(70-130)		
LCS2	Dichloromethane		5.0	4.95	ug/L	99	(70-130)	20	4.5
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.46	ug/L	89	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.38	ug/L	88	(70-130)	20	1.8
MBLK	Di-isopropyl ether			<1.5	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.490	ug/L	98	(50-150)		
LCS1	Ethyl benzene		5.0	5.33	ug/L	107	(70-130)		
LCS2	Ethyl benzene		5.0	5.15	ug/L	103	(70-130)	20	3.4
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Hexachlorobutadiene		5.0	4.88	ug/L	98	(70-130)		
LCS2	Hexachlorobutadiene		5.0	4.69	ug/L	94	(70-130)	20	4.0
MBLK	Hexachlorobutadiene			<0.25	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Isopropylbenzene		5.0	5.61	ug/L	112	(70-130)		
LCS2	Isopropylbenzene		5.0	5.31	ug/L	106	(70-130)	20	5.5
MBLK	Isopropylbenzene			<0.25	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	m,p-Xylenes		10	11.4	ug/L	114	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	m,p-Xylenes		10	11.1	ug/L	111	(70-130)	20	2.7
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.960	ug/L	96	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.550	ug/L	110	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.69	ug/L	114	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.32	ug/L	106	(70-130)	20	6.7
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.25	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.69	ug/L	94	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.31	ug/L	86	(70-130)	20	8.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.460	ug/L	92	(50-150)		
LCS1	Naphthalene		5.0	6.21	ug/L	124	(70-130)		
LCS2	Naphthalene		5.0	5.71	ug/L	114	(70-130)	20	8.4
MBLK	Naphthalene			<0.25	ug/L				
MRL_CHK	Naphthalene		0.5	0.510	ug/L	102	(50-150)		
LCS1	n-Butylbenzene		5.0	5.39	ug/L	108	(70-130)		
LCS2	n-Butylbenzene		5.0	5.09	ug/L	102	(70-130)	20	5.7
MBLK	n-Butylbenzene			<0.25	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	n-Propylbenzene		5.0	5.35	ug/L	107	(70-130)		
LCS2	n-Propylbenzene		5.0	5.26	ug/L	105	(70-130)	20	1.7
MBLK	n-Propylbenzene			<0.25	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.43	ug/L	109	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.05	ug/L	101	(70-130)	20	7.3
MBLK	o-Chlorotoluene			<0.25	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.51	ug/L	110	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.24	ug/L	105	(70-130)	20	5.0
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Xylene		5.0	5.84	ug/L	117	(70-130)		
LCS2	o-Xylene		5.0	5.44	ug/L	109	(70-130)	20	7.1
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.49	ug/L	110	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.31	ug/L	106	(70-130)	20	3.3

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	p-Chlorotoluene			<0.25	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	6.08	ug/L	122	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.68	ug/L	114	(70-130)	20	6.8
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.74	ug/L	115	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.32	ug/L	106	(70-130)	20	7.6
MBLK	p-Isopropyltoluene			<0.25	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.430	ug/L	86	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.49	ug/L	110	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.16	ug/L	103	(70-130)	20	6.2
MBLK	sec-Butylbenzene			<0.25	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Styrene		5.0	5.63	ug/L	113	(70-130)		
LCS2	Styrene		5.0	5.57	ug/L	111	(70-130)	20	1.1
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.530	ug/L	106	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.72	ug/L	94	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.45	ug/L	89	(70-130)	20	5.9
MBLK	tert-amyl Methyl Ether			<1.5	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.430	ug/L	86	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.57	ug/L	91	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.34	ug/L	87	(70-130)	20	5.2
MBLK	tert-Butyl Ethyl Ether			<1.5	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.460	ug/L	92	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.44	ug/L	109	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.05	ug/L	101	(70-130)	20	7.4
MBLK	tert-Butylbenzene			<0.25	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	5.07	ug/L	101	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.74	ug/L	95	(70-130)	20	6.7
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene		5.0	5.22	ug/L	104	(70-130)		
LCS2	Toluene		5.0	4.97	ug/L	99	(70-130)	20	4.9
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.530	ug/L	106	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			99.4	%	99	(70-130)		
MBLK	Toluene-d8 (S)			98.6	%	99	(70-130)		
MRL_CHK	Toluene-d8 (S)			102	%	102	(70-130)		
MRLLW	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.03	ug/L	101	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.86	ug/L	97	(70-130)	20	3.4
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.41	ug/L	108	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.35	ug/L	107	(70-130)	20	1.1
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	5.01	ug/L	100	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.71	ug/L	94	(70-130)	20	6.2
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.420	ug/L	84	(50-150)		
LCS1	Trichlorofluoromethane		5.0	6.04	ug/L	121	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.16	ug/L	103	(70-130)	20	16
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	5.03	ug/L	101	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.84	ug/L	97	(70-130)	20	3.9
MBLK	Trichlorotrifluoroethane(Freon			<0.25	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.500	ug/L	100	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.08	ug/L	102	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.68	ug/L	94	(70-130)	20	8.2
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.490	ug/L	98	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.230	ug/L	92	(50-150)		
QC Ref# 667163 - Explosives by LCMS by LC-MS-MS						**Analysis Date: 08/28/2012**			
LCS1	2,4,6-Trinitrotoluene (TNT)		0.5	0.560	ug/L	112	(70-130)		
LCS2	2,4,6-Trinitrotoluene (TNT)		0.5	0.577	ug/L	115	(70-130)	30	3.0
MBLK	2,4,6-Trinitrotoluene (TNT)			<0.05	ug/L				
MRL_CHK	2,4,6-Trinitrotoluene (TNT)		0.05	0.0638	ug/L	128	(50-150)		
MS_201208020287	2,4,6-Trinitrotoluene (TNT)	ND	0.5	0.338	ug/L	**68**	(70-130)		
MSD_201208020287	2,4,6-Trinitrotoluene (TNT)	ND	0.5	0.333	ug/L	**67**	(70-130)	30	1.5
LCS1	HMX		0.5	0.541	ug/L	108	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 404386

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	HMX		0.5	0.490	ug/L	98	(70-130)	30	9.9
MBLK	HMX			<0.05	ug/L				
MRL_CHK	HMX		0.05	0.0550	ug/L	110	(50-150)		
MS_201208020287	HMX	ND	0.5	0.313	ug/L	**63**	(70-130)		
MSD_201208020287	HMX	ND	0.5	0.303	ug/L	**61**	(70-130)	30	3.3
LCS1	RDX		0.5	0.587	ug/L	117	(70-130)		
LCS2	RDX		0.5	0.578	ug/L	116	(70-130)	30	1.6
MBLK	RDX			<0.05	ug/L				
MRL_CHK	RDX		0.05	0.0605	ug/L	121	(50-150)		
MS_201208020287	RDX	ND	0.5	0.315	ug/L	**63**	(70-130)		
MSD_201208020287	RDX	ND	0.5	0.290	ug/L	**58**	(70-130)	30	8.3
QC Ref# 668320 - 1,4-Dioxane by EPA 522						**Analysis Date: 08/22/2012**			
LCS1	Dioxane		20	17.9	ug/L	90	(70-130)		
MBLK	Dioxane			<1	ug/L				
MRL_CHK	Dioxane		0.5	0.380	ug/L	76	(50-150)		
MS_201208020287	Dioxane	ND	20	18.1	ug/L	90	(70-130)		
MSD_201208020287	Dioxane	ND	20	18.1	ug/L	90	(70-130)	20	0.0
LCS1	Dioxane-d8 (S)			91.5	%	92	(70-130)		
MBLK	Dioxane-d8 (S)			77.5	%	78	(70-130)		
MRL_CHK	Dioxane-d8 (S)			88.8	%	89	(70-130)		
MS_201208020287	Dioxane-d8 (S)			93.8	%	94	(70-130)		
MSD_201208020287	Dioxane-d8 (S)			92.9	%	93	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

MWH LABORATORIES

Ship To:
685 Stone Road, Unit 6
Biovir Laboratories Inc.

Benicia, CA 94510

Phone: 707-747-5906 Fax: 707-747-1751

MWH Folder #:	Report Due:	Sub PO #:
404386	08/12/2012	99-17549

Submittal Form & Purchase Order 99-17549

1074-1-2

Date: 8/6/2012

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different MWH Folder Numbers!*
Report & Invoice must have the MWH Folder# **404386** Sub PO# **99-17549** and Job # **1000014**

MONO01
1.6°C

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
MWH Laboratories , Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: MWH Laboratories
Accounts Payable PO BOX 6610, Broomfield, CO 80021

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

9 day rush with level 4 data pack

JLS	Use MWH Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
1 EPA 1623	201208030246 Giardia and Cryptosporidium	FW-02-028-M07	Giardia and Cryptosporidium	08/02/12 0923	Water		
2 EPA 1623	201208030248 Giardia and Cryptosporidium	FW-01-028-M07	Giardia and Cryptosporidium	08/02/12 1050	Water		

Relinquished by: M. DE LUSA Sample Control EE/t Date 8-6-12 Time 1015

Received by: Jmc Date 8/7/12 Time 9:35

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Dr., Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

BioVir Laboratories, Inc

NELAC #05234CA
EPA ID# 01401, CA-ELAP #179

685 Stone Road, Unit 6 • Benicia, CA 94510 • (707) 747-5906 • 1-800-GIARDIA • FAX (707) 747-1751 • WEB: www.biovir.com

LAB Sample ID: 121074-001

Client / Address: Eurofins Eaton Analytical, Inc.,750 Royal Oaks Drive, Suite 100 , Monrovia CA 91016
Client No: EUR003 **Purchase Order No:** 404386/99-17549
PWS ID: N/A **Facility ID:** 201208030246
Client Contact: Jackie Contreras, Jacklyn.L.Contreras **Client Phone:** 626-386-1165

SAMPLE INFORMATION:

Name of Sampler: none listed **Customer Sample No.:** FW-02-028-M07
Matrix: Raw Water **Date/Time Received:** 8/7/2012 9:35:00 AM
Sample Point ID: **Check-in Temp. (0-20C)** 1.6
Sample Collection Date: 8/2/2012 **Container Type:** 10 L Cubitainer
Sample Time: 9:23:00 AM
Comments: Samples #1-2 rec'd. past hold time. Client contacted. Per Jackie Contreras, OK to run past hold time; Site ID from sample label, not listed on COC.

ASSAY RESULTS: 1623 EPA 821-R-01-025

Sample Preparation

Filter Type	Envirochek HV	Filter Serial #	
Number of Filters	1	Sample Vol Filtered	10.75 L
Sample Vol Examined	10.75 L	Elution date	8/7/12
Elution Time	1040	Pellet Volume	0.1 mL
Resuspended Conc. Vol.	5 mL	No. of Slides Examined	1
Resample	No	Original Sample Date	
Analyst	kw	Analysis Date / Time	8/7/12-1600

Sample Results

Analyte	Crypto
No. of Crypto	0
Analyte 2	Giardia
No. of Giardia	0

Sample Q. C

OPR Crypto Results	71 %
OPR Giardia Results	29 %
Method Blank Results	0

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. B ioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.
COMPANY IS NOT AN INSURER: BioVir Laboratories is not an insurer or guarantor of the quality and/or purity of water, wastewater, biosolid or other material from which the sample was taken. BioVir offers no express or implied warranties whatsoever concerning the quality or purity of any water, wastewater, biosolid or other material which is ultimately consumed, distributed, applied or disposed.
MAINTENANCE OF RECORDS: BioVir Laboratories, Inc. shall maintain records pertaining to the historical reconstruction of client's data for a minimum of five years from the date of issuance of the final report. Records m ay be destroyed after that date unless a written client's request for records transfer is received by BioVir which requests otherwise. Records transfer or storage charges may apply after the 5 year period. THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF BIOVIR LABORATORIES, INC.

9/11/2012
Report Date

Signature

Quality Checked DCelio

BioVir Laboratories, Inc

NELAC #05234CA
EPA ID# 01401, CA-ELAP #179

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LAB Sample ID: 121074-002

Client / Address: Eurofins Eaton Analytical, Inc.,750 Royal Oaks Drive, Suite 100 , Monrovia CA 91016
Client No: EUR003 **Purchase Order No:** 404386/99-17549
PWS ID: N/A **Facility ID:** 201208030248
Client Contact: Jackie Contreras, Jacklyn.L.Contreras **Client Phone:** 626-386-1165

SAMPLE INFORMATION:

Name of Sampler: none listed **Customer Sample No.:** FW-01-028-M07
Matrix: Raw Water **Date/Time Received:** 8/7/2012 9:35:00 AM
Sample Point ID: **Check-in Temp. (0-20C)** 1.6
Sample Collection Date: 8/2/2012 **Container Type:** 10 L Cubitainer
Sample Time: 10:50:00 AM
Comments: Rec'd. past hold time. Under volume @ 8.5 L. Client contacted. Per Jackie Contreras, OK to run past hold time, under volume; Site ID from sample label.

ASSAY RESULTS: 1623 EPA 821-R-01-025

Sample Preparation

Filter Type	Envirochek HV	Filter Serial #	
Number of Filters	1	Sample Vol Filtered	8.50 L
Sample Vol Examined	8.50 L	Elution date	8/7/12
Elution Time	1040	Pellet Volume	0.1 mL
Resuspended Conc. Vol.	5 mL	No. of Slides Examined	1
Resample	No	Original Sample Date	
Analyst	kw	Analysis Date / Time	8/7/12-1610

Sample Results

Analyte	Crypto
No. of Crypto	0
Analyte 2	Giardia
No. of Giardia	0

Sample Q. C

OPR Crypto Results	71 %
OPR Giardia Results	29 %
Method Blank Results	0

SAMPLE EVALUATION PERFORMANCE CRITERIA: The precise rates of recovery of organisms from environmental samples cannot be determined. B ioVir Laboratories has analyzed your sample(s) in accordance with the method described with each analyte above, however, due to inherent limitations of these methods organisms may avoid detection. For additional information regarding the limitations of the method(s) referred to above please call us at 1-800-GIARDIA.
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9/11/2012
Report Date

Signature

Quality Checked DCelio

EasySeed™

Certificate of Analysis

Batch Number: B 455

General

Safety:	This product is non-hazardous.
Storage:	2-8°C. Do not freeze.
Catalogue Number:	ESCG100
Preparation Date:	21 June 2012
Expiration Date:	19 October 2012
Volume:	1.251 ml +/- 28 ul
Suspension media:	Buffered saline solution.
Sterilisation method:	Gamma irradiation.

Counts

(Method Ref: ESCG-001)

	Mean	St.Dev.
***Cryptosporidium* count:**	**100**	**1.4**
	Mean	St.Dev.
***Giardia* count:**	**99**	**2.1**

DAPI staining:

***Cryptosporidium* % +ve**	**100**	**%**
***Giardia* % +ve**	**100**	**%**

Stock specifics

Organism:	*Cryptosporidium parvum*
Strain:	Iowa
Source:	Bovine
Shed date:	29 April 2012
Purification method:	Discontinuous sucrose and cesium chloride centrifugation gradients.

Organism:	*Giardia lamblia*
Strain:	H3
Source:	Gerbil
Shed date:	06 June 2012
Purification method:	Sucrose and Percoll density gradient centrifugation

Quality Officer:

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Linh Le

NATA TECHNICAL COMPETENCE

This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO Guide 34.

Accredited Reference Material Producer
Accreditation Number: 14993
Site Number: 15276

BTF A BIOMÉRIEUX COMPANY

Water Industry Enquires:
BTF Pty Ltd.
Sydney Australia
Tel. 61 (0) 2 8877 9150
Fax. 61 (0) 2 8877 9101
www.btfbio.com

BIOMÉRIEUX INDUSTRIE

Issue: 9 - March 2009

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 16, 2012

Ms. Jaclyn L. Contreras
MWH Americas, Inc.
Royal Oaks Dr.
Suite 100
Monrovia, CA 910163629

RE: Project: PACE PA 404386
Pace Project No.: 3074814

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, MWH Americas, Inc.

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: PACE PA 404386
Pace Project No.: 3074814

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3074814001	**201208030246**	Drinking Water	08/02/12 09:23	08/06/12 10:30

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: PACE PA 404386
Pace Project No.: 3074814

Lab ID	Sample ID	Method	Analysts	Analytes Reported
3074814001	**201208030246**	EPA 906.0	SLA	1

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Greensburg, PA 15601
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PROJECT NARRATIVE

Project: PACE PA 404386
Pace Project No.: 3074814

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: MWH Laboratories
Date: August 16, 2012

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: PACE PA 404386
Pace Project No.: 3074814

Sample: 201208030246 **Lab ID: 3074814001** Collected: 08/02/12 09:23 Received: 08/06/12 10:30 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**-18.6 ± 136 (242)**	pCi/L	08/10/12 08:11	10028-17-8	

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QUALITY CONTROL DATA

Project: PACE PA 404386
Pace Project No.: 3074814

QC Batch: RADC/12856
QC Batch Method: EPA 906.0
Analysis Method: EPA 906.0
Analysis Description: 906.0 Tritium
Associated Lab Samples: 3074814001

METHOD BLANK: 474004
Matrix: Water
Associated Lab Samples: 3074814001

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	34.6 ± 139 (242)	pCi/L	08/10/12 04:06	

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MWH LABORATORIES

Ship To:
1638 Roseytown Road, Suite 2
PACE Analytical Services, Inc.

Greensburg, PA 15601

Phone: 724-850-5600 Fax: 724-850-5601

Submittal Form & Purchase Order 99-17546

Date: 8/3/2012

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different MWH Folder Numbers!
Report & Invoice must have the MWH Folder # **404386** Sub PO# **99-17546** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
MWH Laboratories , Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: MWH Laboratories
Accounts Payable PO BOX 6610, Broomfield, CO 80021

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

9 day rush w/level 4 data pack

3074814

MWH Folder #:	Report Due:	Sub PO #:
404386	08/17/2012	99-17546

JLS	Use MWH Lab Order # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
EPA 906.0	201208030246 @H3EDD	FW-02-028-M07	Total Tritium (Sub)	08/02/12 0923	Water	001	

Relinquished by: M. DeMuesa Sample Control MWH Date 8-3-12 Time 1320

Received by: Date 8-6-12 Time 1030

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Dr., Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

Sample Condition Upon Receipt

Pace Analytical

Client Name: MWH Project # 3074814

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 4294 2882 7344

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 5 6 7 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature NA Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8-6-12

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed: Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 8/1/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C003-6 SCURF front 2April2012.xls

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

RCDU Upload

Analyst:	SLA		
Date:	8/13/2012	Method:	EPA 906.0
Worklist:	12856	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	474004

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	34.5800	139.1000	241.8000	115.30000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	8/10/12 18:24	8/10/12 19:25				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2712.016	2711.998				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.100	0.100				
Target Conc. (pCi/L, g, F):	2712.016	2711.998				
1.96 Sigma Uncertainty (Calculated):	74.418	74.417				
Result (pCi/L, g, F):	2875.810	2843.510				
1.96 Sigma Unc:	261.200	258.600				
% Recovery:	106.04%	104.85%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	LCS					
Duplicate Sample I.D.	LCSD					
Sample Result (pCi/L, g, F):	2875.8100					
1.96 Sigma Unc:	261.2000					
Sample Duplicate Result (pCi/L, g, F):	2843.5100					
Duplicate Sample 1.96 Sigma Unc.	258.6000					
Either results below MDC?	no					
Relative Percent Difference:	1.13%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Tritium		
Sample Collection Date:	8/1/2012		
Sample I.D.	3074730001		
Sample MS I.D.	3074730001MS		
Sample MSD I.D.			
Spike I.D.:	10-003		
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2715.929		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1000		
MS Target Conc.(pCi/L, g, F):	5431.858		
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	149.050		
MSD Spike uncertainty (calculated):			
Sample Result:	0.000		
Sample 1.96 Sigma Unc.:	137.000		
Sample Matrix Spike Result:	5745.600		
Sample MS 1.96 Sigma Unc.:	341.200		
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	105.78%		
MSD % Recovery:			
MS Assessment:	Pass		
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%		
MS/MSD Lower % Recovery Limits:	75.00%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

8/14/12

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 16, 2012

Ms. Jaclyn L. Contreras
MWH Americas, Inc.
Royal Oaks Dr.
Suite 100
Monrovia, CA 910163629

RE: Project: PACE PA 404386
Pace Project No.: 3074823

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins

jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, MWH Americas, Inc.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: PACE PA 404386
Pace Project No.: 3074823

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3074823001	**201208030246**	Drinking Water	08/02/12 09:23	08/06/12 10:30
3074823002	**201208030248**	Drinking Water	08/02/12 10:50	08/06/12 10:30

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: PACE PA 404386
Pace Project No.: 3074823

Lab ID	Sample ID	Method	Analysts	Analytes Reported
3074823001	**201208030246**	EPA 903.1	SLA	1
		EPA 904.0	WRR	1
		EPA 905.0	WRR	1
3074823002	**201208030248**	EPA 903.1	SLA	1
		EPA 904.0	WRR	1
		EPA 905.0	WRR	1
		EPA 906.0	SLA	1

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PROJECT NARRATIVE

Project: PACE PA 404386
Pace Project No.: 3074823

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: MWH Laboratories
Date: August 16, 2012

General Information:
2 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PACE PA 404386
Pace Project No.: 3074823

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: MWH Laboratories
Date: August 16, 2012

General Information:
2 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PACE PA 404386
Pace Project No.: 3074823

Method: **EPA 905.0**
Description: 905.0 Strontium 89/90
Client: MWH Laboratories
Date: August 16, 2012

General Information:
2 samples were analyzed for EPA 905.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: PACE PA 404386
Pace Project No.: 3074823

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: MWH Laboratories
Date: August 16, 2012

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: PACE PA 404386
Pace Project No.: 3074823

Sample: 201208030246 **Lab ID: 3074823001** Collected: 08/02/12 09:23 Received: 08/06/12 10:30 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	**0.177 ± 0.490 (0.952)**	pCi/L	08/14/12 11:12	13982-63-3	
Radium-228	EPA 904.0	**0.993 ± 0.530 (1.000)**	pCi/L	08/13/12 12:06	15262-20-1	
Strontium-90	EPA 905.0	**0.220 ± 0.279 (0.614)**	pCi/L	08/14/12 16:59	10098-97-2	

Sample: 201208030248 **Lab ID: 3074823002** Collected: 08/02/12 10:50 Received: 08/06/12 10:30 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	**0.635 ± 0.582 (0.854)**	pCi/L	08/14/12 11:25	13982-63-3	
Radium-228	EPA 904.0	**0.808 ± 0.487 (0.951)**	pCi/L	08/13/12 11:58	15262-20-1	
Strontium-90	EPA 905.0	**-0.157 ± 0.194 (0.553)**	pCi/L	08/14/12 18:24	10098-97-2	
Tritium	EPA 906.0	**2.63 ± 135 (239)**	pCi/L	08/10/12 09:12	10028-17-8	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: PACE PA 404386
Pace Project No.: 3074823

QC Batch: RADC/12856 Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 Analysis Description: 906.0 Tritium
Associated Lab Samples: 3074823002

METHOD BLANK: 474004 Matrix: Water
Associated Lab Samples: 3074823002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Tritium	34.6 ± 139 (242)	pCi/L	08/10/12 04:06	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: PACE PA 404386
Pace Project No.: 3074823

QC Batch: RADC/12871 | Analysis Method: EPA 905.0
QC Batch Method: EPA 905.0 | Analysis Description: 905.0 Strontium 89/90
Associated Lab Samples: 3074823001, 3074823002

METHOD BLANK: 474290 | Matrix: Water
Associated Lab Samples: 3074823001, 3074823002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Strontium-90	-0.150 ± 0.164 (0.422)	pCi/L	08/14/12 17:27	

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(724)850-5600

QUALITY CONTROL DATA

Project: PACE PA 404386
Pace Project No.: 3074823

QC Batch: RADC/12872 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Associated Lab Samples: 3074823001, 3074823002

METHOD BLANK: 474291 Matrix: Water
Associated Lab Samples: 3074823001, 3074823002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.399 ± 0.576 (0.938)	pCi/L	08/14/12 11:12	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: PACE PA 404386
Pace Project No.: 3074823

QC Batch: RADC/12874 | Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 | Analysis Description: 904.0 Radium 228
Associated Lab Samples: 3074823001, 3074823002

METHOD BLANK: 474293 | Matrix: Water
Associated Lab Samples: 3074823001, 3074823002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-228	0.441 ± 0.454 (0.947)	pCi/L	08/13/12 12:04	

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MWH LABORATORIES

Ship To:
1638 Roseytown Road, Suite 2
PACE Analytical Services, Inc.

Greensburg, PA 15601

Phone: 724-850-5600 Fax: 724-850-5601

Submittal Form & Purchase Order 99-17545

Date: 8/3/2012

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different MWH Folder Numbers!
Report & Invoice must have the MWH Folder # **404386** Sub PO# **99-17545** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
MWH Laboratories , Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: MWH Laboratories
Accounts Payable PO BOX 6610, Broomfield, CO 80021

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

9 day rush with a level 4 data pack with final report in 9 days

MWH Folder #:	Report Due:	Sub PO #:
404386	08/17/2012	99-17545

3074823

JLS	Use MWH Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
	201208030246	FW-02-028-M07		08/02/12 0923	Water	001	
EPA 903.1	@R226EDD		Radium 226 (Sub)				
EPA 904.0	@R228EDD		Radium 228 (Sub)				
EPA 905.0	@SR90EDD		Total Strontium-90 (sub)				
	201208030248	FW-01-028-M07		08/02/12 1050	Water	002	
EPA 906.0	@H3EDD		Total Tritium (Sub)				
EPA 903.1	@R226EDD		Radium 226 (Sub)				
EPA 904.0	@R228EDD		Radium 228 (Sub)				
EPA 905.0	@SR90EDD		Total Strontium-90 (sub)				

Relinquished by: M. DE LUSA Sample Control MWH Date 8-3-12 Time 1320

Received by: Date 8-6-12 Time 1030

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Dr., Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://MWHLabs.com

ADD

Sample Condition Upon Receipt

Pace Analytical

Client Name: MWH

Project # 3074823

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 4694 2882 7344

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 5 6 7 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature NA Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8-6-12

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. pH<2
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed: [illegible] Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 8/7/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-ALL-C003-6 SCURF front 2April2012.xls

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLA
Date:	8/9/2012
Worklist:	12872
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID	474291
MB concentration:	0.399
M/B Counting Uncertainty:	0.572
MB MDC:	0.938
MB Numerical Performance Indicator:	4.70
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS12872	**LCSD12872**
Count Date:	8/14/2012	8/14/2012
Spike I.D.:	12-011	12-011
Spike Concentration (pCi/mL):	56.709	56.709
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	11.342	11.342
Uncertainty (Calculated):	0.272	0.272
Result (pCi/L, g, F):	11.714	11.622
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.890	2.030
Numerical Performance Indicator:	0.38	0.27
Percent Recovery:	103.28%	102.47%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	8/2/2012
Sample I.D.	3074823001
Sample MS I.D.	3074823001MS
Sample MSD I.D.	
Spike I.D.:	12-011
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	56.710
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.500
MS Target Conc.(pCi/L, g, F):	22.684
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.544
Sample Result:	0.177
Sample Result Counting Uncertainty (pCi/L, g, F):	0.490
Sample Matrix Spike Result:	24.093
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	2.939
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	0.797
MSD Numerical Performance Indicator:	
MS Percent Recovery:	105.43%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS12872
Duplicate Sample I.D.	LCSD12872
Sample Result (pCi/L, g, F):	11.714
Sample Result Counting Uncertainty (pCi/L, g, F):	1.890
Sample Duplicate Result (pCi/L, g, F):	11.622
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	2.030
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.065
Duplicate RPD:	0.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

8/16/12

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	WRR
Date:	8/6/2012
Worklist:	12874
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID	474293
MB concentration:	0.441
M/B Counting Uncertainty:	0.446
MB MDC:	0.947
MB Numerical Performance Indicator:	1.93
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS12874	**LCSD12874**
Count Date:	8/13/2012	8/13/2012
Spike I.D.:	12-019	12-019
Spike Concentration (pCi/mL):	40.209	40.210
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.800	0.800
Target Conc. (pCi/L, g, F):	5.026	5.026
Uncertainty (Calculated):	0.151	0.151
Result (pCi/L, g, F):	4.784	3.714
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.056	0.838
Numerical Performance Indicator:	-0.44	-3.02
Percent Recovery:	95.18%	73.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	8/1/2012
Sample I.D.	3074730001
Sample MS I.D.	3074730001MS
Sample MSD I.D.	
Spike I.D.:	12-019
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	40.371
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.800
MS Target Conc.(pCi/L, g, F):	10.093
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.303
Sample Result:	-0.675
Sample Result Counting Uncertainty (pCi/L, g, F):	0.411
Sample Matrix Spike Result:	8.011
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.174
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-2.155
MSD Numerical Performance Indicator:	
MS Percent Recovery:	86.06%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS12874
Duplicate Sample I.D.	LCSD12874
Sample Result (pCi/L, g, F):	4.784
Sample Result Counting Uncertainty (pCi/L, g, F):	1.056
Sample Duplicate Result (pCi/L, g, F):	3.714
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.838
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	1.556
Duplicate RPD:	25.19%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Sr-90 EPA905
Analyst:	WRR
Date:	8/15/2012
Worklist:	12871
Matrix (Pick One):	DW
Reporting Units:	pCi/L

Method Blank Assessment

MB concentration:	-0.150
M/B Counting Uncertainty:	0.154
MB MDC:	0.422
MB Numerical Performance Indicator:	-1.91
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCS	LCSD
* Count Date:	8/15/2012 8:20	8/15/2012 8:20
Spike I.D.:	08-027	08-027
Spike Concentration (pCi/mL):	46.024	46.024
Volume Used (mL):	0.100	0.100
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	9.205	9.205
Uncertainty (Calculated):	0.902	0.902
Result (pCi/L, g, F):	8.220	6.760
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.520	1.250
Numerical Performance Indicator:	-1.09	-3.11
Percent Recovery:	89.30%	73.44%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	7/17/2012 9:00
Sample I.D.	3074730002
Sample MS I.D.	3074730002MS
Sample MSD I.D.	
Spike I.D.:	08-027
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	46.112
Spike Volume Used in MS (mL):	0.200
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.500
MS Target Conc.(pCi/L, g, F):	18.445
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	1.808
Sample Result:	-0.027
Sample Result Counting Uncertainty (pCi/L, g, F):	0.227
Sample Matrix Spike Result:	14.150
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.110
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-3.921
MSD Numerical Performance Indicator:	
MS Percent Recovery:	76.86%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS12871
Duplicate Sample I.D.	LCSD12871
Sample Results (pCi/L):	8.220
Sample Result Counting Uncertainty:	1.520
Sample Duplicate Results (pCi/L):	6.760
Sample Duplicate Result Counting Uncertainty:	1.250
Are sample and/or duplicate results below MDC?	No
Duplicate Numerical Performance Indicator:	1.454
Duplicate RPD:	19.49%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

RCDU Upload

Analyst:	SLA		
Date:	8/13/2012	Method:	EPA 906.0
Worklist:	12856	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	474004

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	34.5800	139.1000	241.8000	115.30000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	8/10/12 18:24	8/10/12 19:25				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2712.016	2711.998				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.100	0.100				
Target Conc. (pCi/L, g, F):	2712.016	2711.998				
1.96 Sigma Uncertainty (Calculated):	74.418	74.417				
Result (pCi/L, g, F):	2875.810	2843.510				
1.96 Sigma Unc:	261.200	258.600				
% Recovery:	106.04%	104.85%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	LCS					
Duplicate Sample I.D.	LCSD					
Sample Result (pCi/L, g, F):	2875.8100					
1.96 Sigma Unc:	261.2000					
Sample Duplicate Result (pCi/L, g, F):	2843.5100					
Duplicate Sample 1.96 Sigma Unc.	258.6000					
Either results below MDC?	no					
Relative Percent Difference:	1.13%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Tritium		
Sample Collection Date:	8/1/2012		
Sample I.D.	3074730001		
Sample MS I.D.	3074730001MS		
Sample MSD I.D.			
Spike I.D.:	10-003		
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2715.929		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1000		
MS Target Conc.(pCi/L, g, F):	5431.858		
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	149.050		
MSD Spike uncertainty (calculated):			
Sample Result:	0.000		
Sample 1.96 Sigma Unc.:	137.000		
Sample Matrix Spike Result:	5745.600		
Sample MS 1.96 Sigma Unc.:	341.200		
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	105.78%		
MSD % Recovery:			
MS Assessment:	Pass		
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%		
MS/MSD Lower % Recovery Limits:	75.00%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

Cs/ie/h

PAT-CHEM LABORATORIES
11990 Discovery Ct. • Moorpark, CA 93021 • Ph. (805) 532-0012 • Fax (805) 532-0016

19 September 2012

Jackie Contreras
Eurofins Eaton Analytical, Inc.
750 Royal Oaks Dr., Suite.100
Monrovia, CA 91016

RE: Wastewater

Enclosed are the results of analyses for samples received by the laboratory on 03-Aug-12 13:57. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Pat Brueckner
Laboratory Director

PAT-CHEM LABORATORIES
11990 Discovery Ct. • Moorpark, CA 93021 • Ph. (805) 532-0012 • Fax (805) 532-0016

Eurofins Eaton Analytical, Inc.	Project: Wastewater	
750 Royal Oaks Dr., Suite.100	Project Number: 99-17531	**Reported:**
Monrovia CA, 91016	Project Manager: Jackie Contreras	19-Sep-12 06:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
404386 (FW-02-028-M07)	1208043-01	Water	02-Aug-12 09:23	03-Aug-12 13:57
404386 (FW-01-028-M07)	1208043-02	Water	01-Aug-12 10:50	03-Aug-12 13:57

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pat Brueckner, Laboratory Director

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Eurofins Eaton Analytical, Inc.	Project: Wastewater	
750 Royal Oaks Dr., Suite.100	Project Number: 99-17531	**Reported:**
Monrovia CA, 91016	Project Manager: Jackie Contreras	19-Sep-12 06:47

404386 (FW-02-028-M07)

Sample I.D.#: 1208043-01 (Water) Date Sampled: 02-Aug-12 09:23 Sampled By: Customer

Pat-Chem Laboratories

TVPH by GC FID

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Ethylene glycol	ND	5.0	mg/l	1	AH20615	06-Aug-12	06-Aug-12	EPA 8015M	

Pat-Chem Laboratories

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Pat Brueckner, Laboratory Director

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Eurofins Eaton Analytical, Inc.	Project: Wastewater	
750 Royal Oaks Dr., Suite.100	Project Number: 99-17531	**Reported:**
Monrovia CA, 91016	Project Manager: Jackie Contreras	19-Sep-12 06:47

404386 (FW-01-028-M07)

Sample I.D.#: 1208043-02 (Water) Date Sampled: 01-Aug-12 10:50 Sampled By: Customer

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pat-Chem Laboratories									
TVPH by GC FID									
Ethylene glycol	ND	5.0	mg/l	1	AH20615	06-Aug-12	06-Aug-12	EPA 8015M	

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pat Brueckner, Laboratory Director

PAT-CHEM LABORATORIES
11990 Discovery Ct. • Moorpark, CA 93021 • Ph. (805) 532-0012 • Fax (805) 532-0016

Eurofins Eaton Analytical, Inc.	Project: Wastewater	
750 Royal Oaks Dr., Suite.100	Project Number: 99-17531	**Reported:**
Monrovia CA, 91016	Project Manager: Jackie Contreras	19-Sep-12 06:47

TVPH by GC FID - Quality Control

Pat-Chem Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AH20615 - Direct Inject										
Blank (AH20615-BLK1)				Prepared & Analyzed: 06-Aug-12						
Ethylene glycol	ND	5.0	mg/l							
LCS (AH20615-BS1)				Prepared & Analyzed: 06-Aug-12						
Ethylene glycol	463	5.0	mg/l	500		92.6	75-120			
Propylene glycol	471	5.0	mg/l	500		94.2	75-120			
LCS Dup (AH20615-BSD1)				Prepared & Analyzed: 06-Aug-12						
Ethylene glycol	465	5.0	mg/l	500		93.0	75-120	0.440	20	
Propylene glycol	468	5.0	mg/l	500		93.6	75-120	0.596	200	
Matrix Spike (AH20615-MS1)		**Source: 1208042-01**		Prepared & Analyzed: 06-Aug-12						
Ethylene glycol	567	5.0	mg/l	500	ND	113	70-130			
Propylene glycol	567	5.0	mg/l	500	ND	113	70-130			
Matrix Spike Dup (AH20615-MSD1)		**Source: 1208042-01**		Prepared & Analyzed: 06-Aug-12						
Ethylene glycol	542	5.0	mg/l	500	ND	108	70-130	4.57	20	
Propylene glycol	532	5.0	mg/l	500	ND	106	70-130	6.33	20	

Pat-Chem Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Pat Brueckner, Laboratory Director

Water Quality Data for Discharges to Mojave Water Agency's Lenwood Recharge Basin, FW-03 and FW-04

Pacific Gas and Electric Company, Hinkley, California

Analyte	Units	Method	FW-03 (05/05/14)	FW-04 (05/13/14)	California MCL[a]	EPA MCL[b]	Does Result Exceed CA MCL?
1,1,1,2-Tetrachloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,1,1-Trichloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	200	200	No
1,1,2,2-Tetrachloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	1	--	No
1,1,2-Trichloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	5	5	No
1,1-Dichloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	5	--	No
1,1-Dichloroethylene	µg/L	EPA 524.2	0.5 U	0.5 U	6	7	No
1,1-Dichloropropene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,2,3-Trichlorobenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,2,3-Trichloropropane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,2,4-Trichlorobenzene	µg/L	EPA 524.2	0.5 U	0.5 U	5	70	No
1,2,4-Trimethylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	EPA 551.1	0.01 U	0.01 U	0.2	0.2	No
1,2-Dibromoethane	µg/L	EPA 551.1	0.01 U	0.01 U	0.05	0.05	No
1,2-Dichloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	0.5	5	No
1,2-Dichloropropane	µg/L	EPA 524.2	0.5 U	0.5 U	5	5	No
1,3,5-Trimethylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,3-Dichlorobenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
1,3-Dichloropropane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
2,2-Dichloropropane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
2,3,7,8-TCDD	pg/L	EPA 1613B	5 U	5 U	30	30	No
2,4,5-T	µg/L	EPA 515.4	0.2 U	0.2 U	--	--	--
2,4,5-TP (Silvex)	µg/L	EPA 515.4	0.2 U	0.2 U	50	50	No
2,4-D	µg/L	EPA 515.4	0.1 U	0.1 U	70	70	No
2,4-DB	µg/L	EPA 515.4	2 U	2 U	--	--	--
2,4-Dinitrotoluene	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
2,6-Dinitrotoluene	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
2-Butanone	µg/L	EPA 524.2	5 U	5 U	--	--	--
3,5-DICHLOROBENZOIC ACID	µg/L	EPA 515.4	0.5 U	0.5 U	--	--	--
3-HYDROXYCARBOFURAN	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
4,4-DDD	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
4,4-DDE	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
4,4-DDT	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
4-METHYL-2-PENTANONE	µg/L	EPA 524.2	5 U	5 U	--	--	--
Acenaphthene	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Acenaphthylene	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Acetochlor	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
ACIFLUORFEN	µg/L	EPA 515.4	0.2 U	0.2 U	--	--	--
ALACHLOR	µg/L	EPA 505	0.1 U	0.1 U	2	2	No
ALACHLOR	µg/L	EPA 525.2	0.05 U	0.05 U	2	2	No
Aldicarb (Temik)	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
ALDICARB SULFONE	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
ALDICARB SULFOXIDE	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
Aldrin	µg/L	EPA 505	0.01 U	0.01 U	--	--	--
Alkalinity	mg/L	SM 2320 B	81.6	82.6	--	--	--
alpha-BHC	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
alpha-Chlordane	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Aluminum	µg/L	EPA 200.8	30.3	20 U	200	--	No
Anthracene	µg/L	EPA 525.2	0.02 U	0.02 U	--	--	--
Antimony	µg/L	EPA 200.8	1 U	1 U	6	6	No
Apparent Color	ACU	SM 2120 B	3	3 U	15	--	No
Aroclor-1016	µg/L	EPA 505	0.08 U	0.08 U	0.5	0.5	No
Aroclor-1221	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Aroclor-1232	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Aroclor-1242	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Aroclor-1248	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Aroclor-1254	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Aroclor-1260	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Arsenic	µg/L	EPA 200.8	2.38	2.23	10	10	No
Asbestos	MFL	EPA 100.2	0.2 UJ	0.2 U	7	7	No
ATRAZINE	µg/L	EPA 525.2	0.05 U	0.05 U	1	3	No
Barium	µg/L	EPA 200.8	55.7	55.8	1000	2000	No
Baygon	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
BENTAZON	µg/L	EPA 515.4	0.5 U	0.5 U	18	--	No
Benzene	µg/L	EPA 524.2	0.5 U	0.5 U	1	5	No
Benzo (a) anthracene	µg/L	EPA 525.2	0.05 U	0.05 U	10	--	No
Benzo (a) pyrene	µg/L	EPA 525.2	0.02 U	0.02 U	0.2	0.2	No

Water Quality Data for Discharges to Mojave Water Agency's Lenwood Recharge Basin, FW-03 and FW-04
Pacific Gas and Electric Company, Hinkley, California

Analyte	Units	Method	FW-03 (05/05/14)	FW-04 (05/13/14)	California MCL[a]	EPA MCL[b]	Does Result Exceed CA MCL?
Benzo (b) fluoranthene	µg/L	EPA 525.2	0.02 U	0.02 U	--	--	--
Benzo (g,h,i) perylene	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Benzo(k)fluoranthene	µg/L	EPA 525.2	0.02 U	0.02 U	--	--	--
Beryllium	µg/L	EPA 200.8	1 U	1 U	4	4	No
beta-BHC	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
BROMACIL	µg/L	EPA 525.2	0.2 U	0.2 U	--	--	--
Bromobenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Bromochloromethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Bromodichloromethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Bromoethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Bromoform	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Bromomethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
BUTACHLOR	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Butyl benzylphthalate	µg/L	EPA 525.2	0.5 U	0.5 U	--	--	--
Cadmium	µg/L	EPA 200.8	0.5 U	0.5 U	5	5	No
Caffeine	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Calcium	mg/L	EPA 200.7	29.9	36.3	--	--	--
Carbaryl	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
CARBOFURAN	µg/L	EPA 531.2	0.5 U	0.5 U	18	40	No
CARBON DISULFIDE	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Carbon tetrachloride	µg/L	EPA 524.2	0.5 U	0.5 U	0.5	5	No
CHLORDANE	µg/L	EPA 505	0.1 U	0.1 U	0.1	2	No
Chloride	mg/L	EPA 300.0	37.8	42.3	250	--	No
Chlorobenzene	µg/L	EPA 524.2	0.5 U	0.5 U	70	100	No
CHLOROBENZILATE	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Chlorodibromomethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Chloroethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Chloroform	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Chloromethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Chloroneb	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Chlorothalonil(Draconil,Bravo)	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Chlorpyrifos, ethyl (Dursban)	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Chromium, Total	µg/L	EPA 200.8	1 U	1 U	50	100	No
Chrysene	µg/L	EPA 525.2	0.02 U	0.02 U	--	--	--
cis-1,2-Dichloroethylene	µg/L	EPA 524.2	0.5 U	0.5 U	6	70	No
cis-1,3-Dichloropropene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Conductance	umho/cm	SM 2510 B	394	421	900	--	No
Copper	µg/L	EPA 200.8	2 U	2 U	1000	--	No
Cyanide	mg/L	SM 4500-CN	0.025 U	0.025 U	0.15	0.2	No
Dalapon	µg/L	EPA 515.4	1 U	1 U	200	200	No
delta-BHC	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Di-(2-Ethylhexyl)adipate	µg/L	EPA 525.2	0.6 U	0.6 U	400	400	No
Di(2-Ethylhexyl)phthalate	µg/L	EPA 525.2	0.6 U	0.6 U	4	6	No
DIAZINON	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Dibenzo (a,h) anthracene	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Dibromomethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Dicamba	µg/L	EPA 515.4	0.1 U	0.1 U	--	--	--
Dichlorodifluoromethane	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Dichloromethane	µg/L	EPA 524.2	0.5 U	0.5 U	5	5	No
Dichloroprop	µg/L	EPA 515.4	0.5 U	0.5 U	--	--	--
DICHLORVOS	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Dieldrin	µg/L	EPA 505	0.01 U	0.01 U	--	--	--
Diethyl phthalate	µg/L	EPA 525.2	0.5 U	0.5 U	--	--	--
Di-isopropyl ether	µg/L	EPA 524.2	3 U	3 U	--	--	--
DIMETHOATE	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Dimethyl phthalate	µg/L	EPA 525.2	0.5 U	0.5 U	--	--	--
Di-n-butylphthalate	µg/L	EPA 525.2	1 U	1 U	--	--	--
Di-n-octylphthalate	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Dinoseb	µg/L	EPA 515.4	0.2 U	0.2 U	7	7	No
DIQUAT	µg/L	EPA 549.2	0.4 U	0.4 U	20	20	No
E. Coli Bacteria	P=Pres/A=Abs	SM 9223 B	A U	A U	--	--	--
E. Coli Bacteria[c]	P=Pres/A=Abs	SM 9223 B	A J	A J	--	--	--
Endosulfan I	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Endosulfan II	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Endosulfan sulfate	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Endothall	µg/L	EPA 548.1	5 U	5 U	100	100	No

Water Quality Data for Discharges to Mojave Water Agency's Lenwood Recharge Basin, FW-03 and FW-04
Pacific Gas and Electric Company, Hinkley, California

Analyte	Units	Method	FW-03 (05/05/14)	FW-04 (05/13/14)	California MCL[a]	EPA MCL[b]	Does Result Exceed CA MCL?
Endrin	µg/L	EPA 505	0.01 U	0.01 U	2	2	No
Endrin aldehyde	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
EPTC	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
ETHYL PARATHION	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Ethylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	300	700	No
Fluoranthene	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Fluorene	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Fluoride	mg/L	SM 4500-F C	0.517	0.545	--	--	--
gamma-BHC (Lindane)	µg/L	EPA 505	0.01 U	0.01 U	0.2	0.2	No
gamma-BHC (Lindane)	µg/L	EPA 525.2	0.04 U	0.04 U	0.2	0.2	No
gamma-Chlordane	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
GLYPHOSATE	µg/L	EPA 547	6 U	6 U	700	700	No
Gross Alpha	pCi/L	EPA 900.0	3 U	3 U	15	15	No
GROSS BETA	pCi/L	EPA 900.0	4 U	3 U	50[d]	--	No
Hardness	mg/L	SM 2340 C	98.8	118	--	--	--
Heptachlor	µg/L	EPA 505	0.01 U	0.01 U	0.01	0.4	No
Heptachlor epoxide	µg/L	EPA 505	0.01 U	0.01 U	0.01	0.2	No
Hexachlorobenzene	µg/L	EPA 525.2	0.05 U	0.05 U	1	1	No
Hexachlorobutadiene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Hexachlorocyclopentadiene	µg/L	EPA 525.2	0.05 U	0.05 U	50	50	No
Hexavalent chromium, LL	µg/L	EPA 218.6 LL	0.109	0.122	10	--	No
Indeno (1,2,3-c,d) pyrene	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Iron	mg/L	EPA 200.7	0.0346	0.0217	0.3	--	No
Isophorone	µg/L	EPA 525.2	0.5 U	0.5 U	--	--	--
Isopropylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Lead	µg/L	EPA 200.8	0.5 U	0.5 U	15	--	No
m,p-Xylene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Magnesium	mg/L	EPA 200.7	5.82	6.84	--	--	--
MALATHION	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Manganese	µg/L	EPA 200.8	2.16	2 U	50	--	No
MBAS	mg/L	SM 5540 C	0.05 U	0.05 U	0.5	--	No
Mercury	µg/L	EPA 245.1	0.2 U	0.2 U	2	2	No
Methiocarb	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
Methomyl	µg/L	EPA 531.2	0.5 U	0.5 U	--	--	--
Methoxychlor	µg/L	EPA 505	0.05 U	0.05 U	30	40	No
METOLACHLOR	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
METRIBUZIN	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Molinate	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Naphthalene	µg/L	EPA 525.2	0.3 U	0.3 U	--	--	--
n-Butylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Nickel	µg/L	EPA 200.8	5 U	5 U	100	--	No
Nitrate + Nitrite-N	mg/L	EPA 300.0	0.91	1	10	--	No
Nitrate as Nitrogen	mg/L	EPA 300.0	0.912	1.03	10	10	No
Nitrate as NO3 (calc)	mg/L	EPA 300.0	4.04	4.55	45	--	No
Nitrite Nitrogen	mg/L	EPA 300.0	0.05 U	0.05 U	1	1	No
n-Propylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
o-Chlorotoluene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
o-Dichlorobenzene (1,2-DCB)	µg/L	EPA 524.2	0.5 U	0.5 U	600	600	No
Odor	TON	SM 2150 B	1 U	1 U	3	--	No
Orthophosphate as P, dissolved	mg/L	EPA 365.1	0.044	0.054	--	--	--
Oxamyl	µg/L	EPA 531.2	0.5 U	0.5 U	50	200	No
o-Xylene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Paraquat	µg/L	EPA 549.2	2 U	2 U	--	--	--
p-Chlorotoluene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
p-Dichlorobenzene (1,4-DCB)	µg/L	EPA 524.2	0.5 U	0.5 U	5	75	No
Pendimethalin	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Pentachlorophenol	µg/L	EPA 515.4	0.04 U	0.04 U	1	1	No
Perchlorate	µg/L	EPA 314	4 U	4 U	6	--	No
Permethrin (mixed isomers)	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
pH	pH Units	SM 4500-H+ B	7.74	7.65 J	6.5 - 8.5	--	No
Phenanthrene	µg/L	EPA 525.2	0.04 U	0.04 U	--	--	--
PICLORAM	µg/L	EPA 515.4	0.1 U	0.1 U	500	500	No
p-Isopropyltoluene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Polychlorinated Biphenyls (PCBs), Total	µg/L	EPA 505	0.1 U	0.1 U	0.5	0.5	No
Potassium	mg/L	EPA 200.7	2.02	2.28	--	--	--
PROPACHLOR	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--

Water Quality Data for Discharges to Mojave Water Agency's Lenwood Recharge Basin, FW-03 and FW-04

Pacific Gas and Electric Company, Hinkley, California

Analyte	Units	Method	FW-03 (05/05/14)	FW-04 (05/13/14)	California MCL[a]	EPA MCL[b]	Does Result Exceed CA MCL?
Pyrene	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
RADIUM-226	pCi/L	EPA 903.1	1 U	1 U	--	--	--
RADIUM-228	pCi/L	EPA 904.0	1 U	1 U	--	--	--
sec-Butylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Selenium	µg/L	EPA 200.8	5 U	5 U	50	50	No
Silver	µg/L	EPA 200.8	0.5 U	0.5 U	100	--	No
SIMAZINE	µg/L	EPA 525.2	0.05 U	0.05 U	4	4	No
Sodium	mg/L	EPA 200.7	35	38.9	--	--	--
Soluble Silica	mg/L	EPA 200.7	22.8	24.6	--	--	--
STRONTIUM-90	pCi/L	EPA 905.0	2 U	1 U	8	--	No
Styrene	µg/L	EPA 524.2	0.5 U	0.5 U	100	100	No
Sulfate	mg/L	EPA 300.0	33.8	39.5	250	--	No
TCE	µg/L	EPA 524.2	0.5 U	0.5 U	5	5	No
Terbacil	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Terbuthylazine	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
tert-Amyl Methyl Ether	µg/L	EPA 524.2	3 U	3 U	--	--	--
tert-Butyl Ethyl Ether	µg/L	EPA 524.2	3 U	3 U	--	--	--
tert-Butyl Methyl Ether	µg/L	EPA 524.2	0.5 U	0.5 U	5	--	No
tert-Butylbenzene	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
Tetrachloroethene	µg/L	EPA 524.2	0.5 U	0.5 U	5	5	No
Thallium	µg/L	EPA 200.8	1 U	1 U	2	2	No
Thiobencarb (ELAP)	µg/L	EPA 525.2	0.2 U	0.2 U	--	--	--
Toluene	µg/L	EPA 524.2	0.5 U	0.5 U	150	1000	No
Tot DCPA Mono&Diacid Degradate	µg/L	EPA 515.4	0.1 U	0.1 U	--	--	--
Total Coliform Bacteria	P=Pres/A=Abs	SM 9223 B	A U	A U	--	5%[e]	--
Total Coliform Bacteria[c]	P=Pres/A=Abs	SM 9223 B	A J	A J	--	5%[e]	--
Total Dissolved Solids	mg/L	SM 2540 C	228	266 J	500	--	No
Total THM	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
TOTAL, 1,3-DICHLOROPROPENE (CIS AND TRANS)	µg/L	EPA 524.2	0.5 U	0.5 U	0.5	--	No
Toxaphene	µg/L	EPA 505	0.5 U	0.5 U	3	3	No
Trans-1,2-DCE	µg/L	EPA 524.2	0.5 U	0.5 U	10	100	No
TRANS-1,2-DICHLOROPROPENE	µg/L	EPA 524.2	0.5 U	0.5 U	--	--	--
TRANS-NONACHLOR	µg/L	EPA 525.2	0.05 U	0.05 U	--	--	--
Trichlorofluoromethane	µg/L	EPA 524.2	0.5 U	0.5 U	150	--	No
Trichlorotrifluoroethane	µg/L	EPA 524.2	0.5 U	0.5 U	200	--	No
TRIFLURALIN	µg/L	EPA 525.2	0.1 U	0.1 U	--	--	--
Tritium	pCi/L	EPA 906.0	400 U	400 U	20000	--	No
Turbidity	NTU	EPA 180.1	0.161	0.141	5	--	No
Uranium	µg/L	EPA 200.8	1 U	1.3	--	30 µg/L	No
Uranium (pCi/L)	pCi/L	EPA 200.8	0.7 U	0.871	20 pCi/L	--	No
Vinyl chloride	µg/L	EPA 524.2	0.3 U	0.3 U	0.5	2	No
XYLENES, TOTAL	µg/L	EPA 524.2	0.5 U	0.5 U	1750	10000	No
Zinc	µg/L	EPA 200.8	20 U	20 U	5000	--	No

Notes:

[a] The most conservative of the Primary and Secondary MCL values is presented, as available

[b] EPA MCL values are generally less conservative than California values but are provided as a reference.

[c] Duplicate confirmation samples collected on May 21 and May 20, 2014 for FW-03 and FW-04, respectively

[d] The Gross Beta MCL provided represents a screening level, the exceedance of which requires additional testing.

[e] If 5% of samples analyzed tested positive for coliform additional testing and disinfection would have been required.

-- Not sampled for given constituent

mg/L milligrams per liter

µg/L micrograms per liter

pg/L picograms per liter

pCi/L picocuries per liter

NTU Nephelometric Turbidity Unit

umho/cm micromhos per centimeter

TON Threshold Odor Number

ACU Apparent Color Unit

MFL Million Fibers per Liter

MCL Maximum Contaminant Level

J Analyte was present in the sample but the laboratory reported concentration is qualified as estimated by data validation because one or more quality control criteria were not met.

U Parameter is not detected at the reporting limit shown.

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1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

CH2M Hill
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
06/04/2014
EUROFINS EATON
ANALYTICAL

Report: 479896
Project: HINKLEY
Group: Fresh Water Well

DST: David S Tripp

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 479896
Project: HINKLEY
Sample Group: Fresh Water Well

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 05, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
	@551_EDB_DBCP TB -- EDB/DBCP/HAN by EPA 551.1	
	@551_EDB-DBCP -- EDB/DBCP/HAN by EPA 551.1	
	@COLI-PA -- Coliform,Pres/Absence,24 Hours	
	@DIQUAT -- Diquat and Paraquat	
	@H3EDD -- Total Tritium (Sub)	
	@ML505 -- Organochlorine Pesticides/PCBs	
	@ML515.4 -- Chlorophenoxy Herbicides	
	@ML531.2 -- Aldicarbs	
	@R226EDD -- Radium 226 (Sub)	
	@R228EDD -- Radium 228 (Sub)	
	@RADEDD -- Gross Alpha/Beta Radiation (Sub)	
	@SR90EDD -- Total Strontium-90 (sub)	
	@VOASDWA -- Volatile Organics by GCMS	
	@VOASDWA TB -- Volatile Organics by GCMS	

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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Acknowledgement of Samples Received

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2525 Airpark Drive
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Sample #	Sample ID	Sample Date
201405050183	FW-03-055-Q2	05/05/2014 0950

@ANIONS28	@ANIONS48	@ICP
@ICPMS	Agressiveness Index-Calculated	Alkalinity in CaCO3 units
Anion Sum - Calculated	Bicarb.Alkalinity as HCO3,calc	Carbon Dioxide,Free(25C)-Calc.
Carbonate as CO3, Calculated	Cation Sum - Calculated	Fluoride
Hydroxide as OH, Calculated	Langelier Index - 25 degree	Mercury
PH (H3=past HT not compliant)	pH of CaCO3 saturation(25C)	pH of CaCO3 saturation(60C)
Specific Conductance	Surfactants	Total Dissolved Solid (TDS)
Total Hardness as CaCO3 by ICP	Apparent Color	Odor at 60 C (TON)
Turbidity	@ICPMS	Uranium by ICPMS as pCi/L
@2378-TCDD_Dioxin	@525PLUS	@551_EDB-DBCP
@COLI-PA	@DIQUAT	@H3EDD
@ML505	@ML515.4	@ML531.2
@R226EDD	@R228EDD	@RADEDD
@SR90EDD	@VOASDWA	Asbestos by TEM - >10 microns
Cobalt Total ICAP/MS	Hexavalent chromium(Dissolved)	Cyanide
Endothall	Glyphosate	Orthophosphate as P (OPO4)
Orthophosphate as PO4	Perchlorate	Silica Dissolved

201405050184	Travel Blank	05/05/2014 0800

@551_EDB_DBCP TB	@VOASDWA TB

201405050185	Sample Pick Up	05/05/2014 0800

Courier Charge

201405060401	CRVI & Arsenic rush TAT	05/05/2014 0800

RUSH

Test Description

@ANIONS28 -- Chloride, Sulfate by EPA 300.0

@ANIONS48 -- Nitrate, Nitrite by EPA 300.0

@ICP -- ICP Metals

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

@2378-TCDD_Dioxin -- 2,3,7,8-TCDD_Dioxin

@525PLUS -- Semivolatiles by GCMS

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479896

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UCMR3 CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100. Monrovia, CA 91016-3629

Phone: 626 386 1100/ 800 566 LABS (800 566 5227)
Fax: 626 386 1101

Website: www.EatonAnalytical.com

PWSID: _____
Example: (CA1234567)

EUROFINS EATON ANALYTICAL USE ONLY:

Folder No:

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: W

SAMPLES LOGGED IN BY: W

SAMPLES REC'D DAY OF COLLECTION? ☑ (check for yes)

SAMPLE TEMP RECEIVED AT:
☐ Colton / No. California / Arizona _____ °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)
☑ Monrovia 11.6 °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ECS

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CH2M HILL

PROJECT CODE: PGE HINKLEY

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP:

COMPLIANCE SAMPLES ☐ (check for yes)
- Requires upload to EPA database ☐

Regulation: UCMR3

NOTE: we **MUST** have PWSID#, Facility ID, Sample Point ID, and Sample Type to be able to upload data to EPA Databa

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☒ (check for yes), ***OR***

list ANALYSES REQUIRED (Mark "X" in all test required for each sample line)

TAT requested: rush by adv notice only 21 Days — STD X 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	FACILITY ID (per EPA Requirement) - 5 characters Max	UNIQUE FIELD SAMPLE ID (per EPA Requirement) - 20 characters max	WATER SOURCE TYPE (1)	SAMPLE EVENT # (2)	SAMLE POINT TYPE ID (3)	DISINFECTANT TYPE (4)	UCMR3 200.8	UCMR3 200.8 - FB *	UCMR3 218.7	UCMR3 522	UCMR3 524.3	UCMR3 524.3 - TB *	UCMR3 537	UCMR3 537 - FB *	UCMR3 539	UCMR3 539 - FB *	UCMR3 Chlorate				SAMPLER COMMENTS
5/5/14	0900	NA	FW-03-055-Q2	GW	SE1	EP	NODU				SEE	ATTACHED			BOTTLE		ORDER		FOR	ANALYSIS		
											PLEASE	RUSH			(24 hour)							rec'd by CHD 05/05/14 1357
											Cr	to	Co.		As							

(1) **Water Source Type:** **SW:** Surface Water **GW:** Ground Water **GU:** Ground Water under the direct influence of SW **MX:** Any Combination of previous three water types

(2) **Sample Event Code:** **SE1** (first) **SE2** (second) **SE3** (third) **SE4** (fourth)

(3) **Sampling Point Type ID:** **EP:** Entry Point to the distribution system **MR:** Distribution System sample at maximum residence time

(4) **Disinfectant Type:** **CLGA:** Gaseous Chlorine **CLOF:** Offsite Generated Hypochlorite (stored as liquid form) **CLON:** Onsite Generated Hypochlorite (no storage) **CAGC:** Chloramine (formed from gaseous chlorine) **CAOF:** Chloroamine (formed from offsite hypochlorite) **CAON:** Chloroamine (formed from onsite hypochlorite) **CLDO:** Chlorine Dioxide **OZON:** Ozone **ULVL:** Ultraviolet Light **OTHD:** All Other Types of Disinfectant **NODU:** No Disinfectant Used

* Field Blank (FB) or Trip Blank (TB) are analyzed only when associated samples have positive results (>MRL)

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
SAMPLED BY:	Eli Ludwig	Eli Ludwig	Groundwater Partners	5/5/14	10:58
RELINQUISHED BY:	Eli Ludwig	Eli Ludwig	Groundwater Partners	5/5/14	10:59
RECEIVED BY:	[illegible]	Vincent Durar	EGS	5-5-14	11:05
RELINQUISHED BY:	[illegible]	Vincent Duran	EGS	5-5-14	12:44
RECEIVED BY:	[illegible]	CHRIS DAMREM	EGS	5/5/14	1252

QA FO 0030 (06/26/2013)

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for CH2M Hill

David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 89869
Created By: ADT
Deliver By: 05/02/2014
STG: Bottle Orders
Ice Type: W

Client ID: CH2M-REDDING
Project Code: HINKLEY Bottle Orders
Group Name: Fresh Water Well
PO#/JOB#:

Ship Sample Kits to
Groundwater Partners
24134 Dixie Road
Hinkley, CA 92347-9682

Attn: Eli Ludwig
Phone: 505-999-7535

Send Report to
CH2M Hill
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831 or 530-941-9227
Fax: 530-243-1654

Billing Address
CH2M Hill
155 Grand Avenue, Suite 800
Oakland, CA 94602

Attn: William DeBoer
Phone: 510-587-7563

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
2	@2378-TCDD_Dioxin	2 1L amber glass D1613_NO_PRESERVATIVE	
2	@525PLUS	2 1L amber glass 2ml of 6N HCl	UN1789
3	@551_EDB_DBCP TB	2 60ml amber glass 1g(1%NaP/99%KP)+0.6%NH4CL+ H2O	
2	@551_EDB-DBCP	3 60ml amber glass EDB1g(1%NaP/99%KP)+0.6%NH4CL	
2	@ANIONS28, @ANIONS48	1 125ml poly no preservative	
2	@COLI-PA	1 100ml poly sterilized 0.25ml thio (8%)	
2	@DIQUAT	1 1L amber poly no preservative	
2	@H3EDD	1 500ml amber glass H3 - no preservative	
2	@ICP, @ICPMS, Mercury, @ICPMS, Uranium by ICPMS as pCi/L, Cobalt Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031
2	@ML505	4 40ml amber glass vial 1drop thio (8%)	
2	@ML515.4	2 125ml amber glass 7mg SULFITE xls	
2	@ML531.2	2 40ml amber glass vial 0.37g KH2Citrate+6mg ThioSO4	
2	@RA226 GA, @RA228 GA	3 1L poly 4ml HNO3 (18%)	UN2031
2	@RAD_BETA_ONLY, Gross Alpha by Co-precipitation	2 500ml poly 2ml 18%HNO3+125ml poly/no pres	UN2031
2	@SR90EDD	1 1L poly 4ml 18%HNO3+125ml poly/no pres	UN2031
2	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
3	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
2	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance, Silica Dissolved	1 250ml poly no preservative	
2	Apparent Color, Odor at 60 C (TON), Turbidity	1 1L amber glass ODOR_no preservative	
2	Asbestos by TEM - >10 microns	1 1L poly sonicated no preservative	
2	CRVI-LOW	1 125ml poly 1.25 ml NH4SO4/NH4OH buffer	
2	Cyanide	1 250 ml poly 2 ml NaOH (30%)+6 scoops AA	

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formerly MWH Laboratories

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Kit Order for CH2M Hill

David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 89869
Created By: ADT
Deliver By: 05/02/2014
STG: Bottle Orders
Ice Type: W

Client ID: CH2M-REDDING
Project Code: HINKLEY Bottle Orders
Group Name: Fresh Water Well
PO#/JOB#:

Ship Sample Kits to
Groundwater Partners
24134 Dixie Road
Hinkley, CA 92347-9682

Attn: Eli Ludwig
Phone: 505-999-7535

Send Report to
CH2M Hill
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831
Fax: 530-243-1654

Billing Address
CH2M Hill
155 Grand Avenue, Suite 800
Oakland, CA 94602

Attn: William DeBoer
Phone: 510-587-7563

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
2	Endothall	1 250ml amber glass no preservative	
2	Fluoride	1 250 ml poly FLUORIDE_no preservative	
2	Glyphosate	1 125ml amber glass no preservative	
2	Orthophosphate as P, Orthophosphate as PO4	1 125ml poly OPO4_no preservative	
2	Perchlorate	1 125ml poly CLO4 - no preservative	
2	Surfactants	1 500ml poly no preservative	
2	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

750 Royal Oaks Drive, Suite 100
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1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 479896

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Folder Comments

Analytical results for Gross Alpha, Beta, Radium 226, Radium 228, Tritium and Strontium 90 are submitted by Pace Analytical Services, Greensburg, PA

Flags Legend:

LE - MRL Check recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

The Comments Report may be blank if there are no comments for this report.

750 Royal Oaks Drive, Suite 100
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Laboratory Hits
Report: 479896

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/05/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201405050183	**FW-03-055-Q2**				
05/07/2014 11:53	Agressiveness Index-Calculated		12		None	0.1
05/06/2014 10:39	Alkalinity in CaCO3 units		82		mg/L	2
05/05/2014 16:04	Aluminum Total ICAP/MS		30	200	ug/L	20
05/07/2014 12:51	Anion Sum - Calculated		3.5		meq/L	0.001
05/05/2014 13:58	Apparent Color		3.0	15	ACU	3
05/05/2014 16:04	Arsenic Total ICAP/MS		2.4	10	ug/L	1
05/05/2014 16:04	Barium Total ICAP/MS		56	2000	ug/L	2
05/07/2014 11:53	Bicarb.Alkalinity as HCO3calc		99		mg/L	2
05/05/2014 16:24	Calcium Total ICAP		30		mg/L	1
05/07/2014 11:53	Carbon Dioxide,Free(25C)-Calc.		3.2		mg/L	2
05/06/2014 09:36	Cation Sum - Calculated		3.6		meq/L	0.001
05/05/2014 14:01	Chloride		38	250	mg/L	1
05/06/2014 16:00	Dissolved Silica		23		mg/L	0.5
05/06/2014 13:45	Fluoride		0.52	4	mg/L	0.05
05/05/2014 14:26	Hexavalent chromium(Dissolved)		0.11		ug/L	0.02
05/05/2014 16:24	Iron Total ICAP		0.034	0.3	mg/L	0.02
05/07/2014 11:53	Langelier Index - 25 degree		-0.23		None	
05/05/2014 16:24	Magnesium Total ICAP		5.8		mg/L	0.1
05/05/2014 16:04	Manganese Total ICAP/MS		2.2	50	ug/L	2
05/05/2014 14:01	Nitrate as Nitrogen by IC		0.91	10	mg/L	0.1
05/05/2014 14:01	Nitrate as NO3 (calc)		4.0	45	mg/L	0.44
05/06/2014 09:26	Orthophosphate as P		0.044		mg/L	0.01
05/06/2014 11:55	Orthophosphate as PO4		0.13		mg/L	0.031
05/06/2014 11:22	PH (H3=past HT not compliant)		7.7		Units	0.1
05/07/2014 11:53	pH of CaCO3 saturation(25C)		8.0		Units	0.1
05/06/2014 09:36	pH of CaCO3 saturation(60C)		7.5		Units	0.1
05/05/2014 16:24	Potassium Total ICAP		2.0		mg/L	1
05/05/2014 16:24	Sodium Total ICAP		35		mg/L	1
05/06/2014 10:39	Specific Conductance, 25 C		390		umho/cm	2
05/05/2014 14:01	Sulfate		34	250	mg/L	0.5
05/09/2014 16:53	Total Dissolved Solids (TDS)		230	500	mg/L	10
05/06/2014 09:36	Total Hardness as CaCO3 by ICP (calc)		99		mg/L	3
05/05/2014 14:01	Total Nitrate, Nitrite-N, CALC		0.91		mg/L	0.1
05/05/2014 13:48	Turbidity		0.16	5	NTU	0.05

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 479896

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/05/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-03-055-Q2 (201405050183)						**Sampled on 05/05/2014 0950**		
		EPA 906.0 - Total Tritium (Sub)						
	05/18/2014	02:19	(EPA 906.0)	Tritium	<400	pCi/L	400	1
	05/18/2014	02:19	(EPA 906.0)	Tritium, MDA	400	pCi/L		1
	05/18/2014	02:19	(EPA 906.0)	Tritium, Two Sigma Error	124	pCi/L		1
		EPA 905.0 - Total Strontium-90 (sub)						
	05/16/2014	11:08	(EPA 905.0)	Strontium 90 (sub)	<2.00	pCi/L	2	1
	05/16/2014	11:08	(EPA 905.0)	Strontium-90, MDA	2.00	pCi/L		1
	05/16/2014	11:08	(EPA 905.0)	Strontium-90, Two Sigma Error	0.323	pCi/L		1
		EPA 903.1 - Radium 226 (Sub)						
	05/21/2014	14:34	(EPA 903.1)	Radium 226	<1.00	pCi/L	1	1
	05/21/2014	14:34	(EPA 903.1)	Radium 226 Minimal Detectable	1	pCi/L		1
	05/21/2014	14:34	(EPA 903.1)	Radium 226 Two Sigma Error	0.367	pCi/L		1
		EPA 904.0 - Radium 228 (Sub)						
	05/22/2014	12:24	(EPA 904.0)	Radium 228	<1.000	pCi/L	1	1
	05/22/2014	12:24	(EPA 904.0)	Radium 228 Minimum Detectable	1	pCi/L		1
	05/22/2014	12:24	(EPA 904.0)	Radium 228 Two Sigma Error	0.406	pCi/L		1
		EPA 900.0 - Gross Alpha/Beta Radiation (Sub)						
	05/17/2014	12:48	(EPA 900.0)	Alpha, Min Detectable Activity	3	pCi/L		1
	05/17/2014	12:48	(EPA 900.0)	Beta Min Detectable Activity	4	pCi/L		1
	05/17/2014	12:48	(EPA 900.0)	Beta Two Sigma Error	0.584	pCi/L		1
	05/17/2014	12:48	(EPA 900.0)	Gross Alpha (Subbed)	<3.00	pCi/L	3	1
	05/17/2014	12:48	(EPA 900.0)	Gross Alpha + adjusted error	ND	pCi/L		1
	05/17/2014	12:48	(EPA 900.0)	Gross Alpha Two Sigma Error	0.991	pCi/L		1
	05/17/2014	12:48	(EPA 900.0)	Gross Beta (Subbed)	<4.00	pCi/L	4	1
		EPA 200.8 - ICPMS Metals						
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Aluminum Total ICAP/MS	30	ug/L	20	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Arsenic Total ICAP/MS	2.4	ug/L	1	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Barium Total ICAP/MS	56	ug/L	2	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
5/5/2014	05/05/2014	16:04 767594	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 479896

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/05/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/5/2014	05/05/2014	16:04	767594	(EPA 200.8)	Manganese Total ICAP/MS	2.2	ug/L	2	1
5/5/2014	05/05/2014	16:04	767594	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
5/5/2014	05/05/2014	16:04	767594	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
5/5/2014	05/08/2014	13:15	768297	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
5/5/2014	05/05/2014	16:04	767594	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
5/5/2014	05/05/2014	16:04	767594	(EPA 200.8)	Uranium ICAP/MS	ND	ug/L	1	1
5/5/2014	05/05/2014	16:04	767594	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
		EPA 200.7 - ICP Metals							
5/5/2014	05/05/2014	16:24	767562	(EPA 200.7)	Calcium Total ICAP	30	mg/L	1	1
5/5/2014	05/06/2014	16:00	767752	(EPA 200.7)	Dissolved Silica	23	mg/L	0.5	1
5/5/2014	05/05/2014	16:24	767562	(EPA 200.7)	Iron Total ICAP	0.034	mg/L	0.02	1
5/5/2014	05/05/2014	16:24	767562	(EPA 200.7)	Magnesium Total ICAP	5.8	mg/L	0.1	1
5/5/2014	05/05/2014	16:24	767562	(EPA 200.7)	Potassium Total ICAP	2.0	mg/L	1	1
5/5/2014	05/05/2014	16:24	767562	(EPA 200.7)	Sodium Total ICAP	35	mg/L	1	1
		EPA 245.1 - Mercury Total							
5/13/2014	05/14/2014	21:25	769996	(EPA 245.1)	Mercury	ND	ug/L	0.2	1
		EPA 100.2 - Asbestos by TEM - >10 microns							
5/6/2014	05/16/2014	00:00	770257	(EPA 100.2)	Asbestos by TEM - >10 microns	ND	MFL	0.2	1
		SM 9223 - Coliform,Pres/Absence,24 Hours							
5/5/2014	05/06/2014	14:55	767729	(SM 9223)	E. coli Bacteria	A	P=Pres/A=Abs		1
5/5/2014	05/06/2014	14:55	767729	(SM 9223)	Total Coliform Bacteria	A	P=Pres/A=Abs		1
		SM2330B - Hydroxide as OH, Calculated							
	05/07/2014	11:53		(SM2330B)	Hydroxide as OH Calculated	ND	mg/L	2	1
		SM 2330B - pH of CaCO3 saturation(60C)							
	05/06/2014	09:36		(SM 2330B)	pH of CaCO3 saturation(60C)	7.5	Units	0.1	1
		EPA 200.8 - Uranium by ICPMS as pCi/L							
	05/06/2014	09:36		(EPA 200.8)	Uranium by ICPMS as pCi/L	ND	pCi/L	0.7	1
		SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.							
	05/07/2014	11:53		(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	3.2	mg/L	2	1
		SM 2330B - Langelier Index - 25 degree							
	05/07/2014	11:53		(SM 2330B)	Langelier Index - 25 degree	-0.23	None		1
		SM2330B - Carbonate as CO3, Calculated							
	05/07/2014	11:53		(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2	1
		SM 2340B - Total Hardness as CaCO3 by ICP							
	05/06/2014	09:36		(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	99	mg/L	3	1
		SM 1030E - Anion Sum - Calculated							
	05/07/2014	12:51		(SM 1030E)	Anion Sum - Calculated	3.5	meq/L	0.001	1

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CH2M Hill
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		SM 1030E - Cation Sum - Calculated						
	05/06/2014	09:36	(SM 1030E)	Cation Sum - Calculated	3.6	meq/L	0.001	1
		SM 2330B - pH of CaCO3 saturation(25C)						
	05/07/2014	11:53	(SM 2330B)	pH of CaCO3 saturation(25C)	8.0	Units	0.1	1
		4500P-E/365.1 - Orthophosphate as PO4 (CAL)						
	05/06/2014	11:55	(4500P-E/365.1)	Orthophosphate as PO4	0.13	mg/L	0.031	1
		SM2330B - Bicarb.Alkalinity as HCO3,calc						
	05/07/2014	11:53	(SM2330B)	Bicarb.Alkalinity as HCO3calc	99	mg/L	2	1
		SM 2330 - Agressiveness Index-Calculated						
	05/07/2014	11:53	(SM 2330)	Agressiveness Index-Calculated	12	None	0.1	1
		EPA 505 - Organochlorine Pesticides/PCBs						
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Aldrin	ND	ug/L	0.01	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Chlordane	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Endrin	ND	ug/L	0.01	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
5/8/2014	05/09/2014	05:37 768421	(EPA 505)	Tetrachlorometaxylene	113	%		1
		EPA 515.4 - Chlorophenoxy Herbicides						
5/12/2014	05/14/2014	02:02 768542	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
5/12/2014	05/14/2014	02:02 768542	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
5/12/2014	05/14/2014	02:02 768542	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
5/12/2014	05/14/2014	02:02 768542	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
5/12/2014	05/14/2014	02:02 768542	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
5/12/2014	05/14/2014	02:02 768542	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1

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5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Dalapon	ND	ug/L	1	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	103	%		1
5/12/2014	05/14/2014	02:02	768542	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	93	%		1
		EPA 551.1 - EDB/DBCP/HAN by EPA 551.1							
5/9/2014	05/09/2014	14:25	768827	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/9/2014	05/09/2014	14:25	768827	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
5/9/2014	05/09/2014	14:25	768827	(EPA 551.1)	1,2-Dibromopropane	91	%		1
		EPA 525.2 - Semivolatiles by GCMS							
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Aldrin	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Benz(a)Anthracene	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Benzo(g,h,i)Perylene	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Benzo(k)Fluoranthene	ND	ug/L	0.02	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1

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5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Dibenz(a,h)Anthracene	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Dimethoate	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND	ug/L	0.05	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
5/15/2014	05/19/2014 15:14	771215	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1

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5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Pentachlorophenol	ND (LK)	ug/L	1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Permethrin (mixed isomers)	ND (LE)	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	107	%		1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Acenaphthene-d10	82	%		1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Chrysene-d12	78	%		1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Perylene-d12	86	%		1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Phenanthrene-d10	81	%		1
5/15/2014	05/19/2014	15:14	771215	(EPA 525.2)	Triphenylphosphate	109	%		1
		EPA 548.1 - Endothall							
5/6/2014	05/12/2014	11:10	768992	(EPA 548.1)	Endothall	ND	ug/L	5	1
		EPA 1613B - 2,3,7,8-TCDD_Dioxin							
5/12/2014	05/16/2014	04:06	770160	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5	1
5/12/2014	05/16/2014	04:06	770160	(EPA 1613B)	C12-2,3,7,8-TCDD	80	%		1
		EPA 547 - Glyphosate							
	05/13/2014	14:58	769142	(EPA 547)	Glyphosate	ND	ug/L	6	1
		EPA 531.2 - Aldicarbs							
	05/06/2014	15:17	767699	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1

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05/05/2014

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	05/06/2014	15:17	767699	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	05/06/2014	15:17	767699	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	100	%		1
			EPA 549.2 - Diquat and Paraquat						
5/7/2014	05/12/2014	15:51	768834	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
5/7/2014	05/12/2014	15:51	768834	(EPA 549.2)	Paraquat	ND	ug/L	2	1
			EPA 218.6 - Hexavalent chromium(Dissolved)						
	05/05/2014	14:26	767663	(EPA 218.6)	Hexavalent chromium(Dissolved)	0.11	ug/L	0.02	1
			EPA 300.0 - Nitrate, Nitrite by EPA 300.0						
	05/05/2014	14:01	767735	(EPA 300.0)	Nitrate as Nitrogen by IC	0.91	mg/L	0.1	1
	05/05/2014	14:01	767735	(EPA 300.0)	Nitrate as NO3 (calc)	4.0	mg/L	0.44	1
	05/05/2014	14:01	767735	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
	05/05/2014	14:01	767735	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	0.91	mg/L	0.1	1
			EPA 300.0 - Chloride, Sulfate by EPA 300.0						
	05/05/2014	14:01	767740	(EPA 300.0)	Chloride	38	mg/L	1	1
	05/05/2014	14:01	767740	(EPA 300.0)	Sulfate	34	mg/L	0.5	1
			EPA 314.0 - Perchlorate						
	05/07/2014	09:28	767854	(EPA 314.0)	Perchlorate	ND	ug/L	4	1
			EPA 524.2 - Volatile Organics by GCMS						
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1

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CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	2,2-Dichloropropane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Bromoethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Bromoform	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Carbon disulfide	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Carbon Tetrachloride	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Chlorodibromomethane	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Chloroethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	cis-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Dichlorodifluoromethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Di-isopropyl ether	ND (LK)	ug/L	3	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	m,p-Xylenes	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1

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5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	trans-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Trichlorofluoromethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Vinyl chloride (VC)	ND (LK)	ug/L	0.3	1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	1,2-Dichloroethane-d4	108	%		1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	4-Bromofluorobenzene	97	%		1
5/14/2014	05/14/2014	12:54	769820	(EPA 524.2)	Toluene-d8	97	%		1
		SM4500CN-F - Cyanide							
	05/06/2014	15:29	767709	(SM4500CN-F)	Cyanide	ND	mg/L	0.025	1
		SM 2150B - Odor at 60 C (TON)							
	05/05/2014	13:14	767533	(SM 2150B)	Odor at 60 C (TON)	ND	TON	1	1
		SM 4500F-C - Fluoride							
	05/06/2014	13:45	767951	(SM 4500F-C)	Fluoride	0.52	mg/L	0.05	1
		SM 2320B - Alkalinity in CaCO3 units							
	05/06/2014	10:39	767900	(SM 2320B)	Alkalinity in CaCO3 units	82	mg/L	2	1
		E160.1/SM2540C - Total Dissolved Solids (TDS)							
5/8/2014	05/09/2014	16:53	768661	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	230	mg/L	10	1
		SM4500-HB - PH (H3=past HT not compliant)							
	05/06/2014	11:22	767291	(SM4500-HB)	PH (H3=past HT not compliant)	7.7	Units	0.1	1
		SM 5540C/EPA 425.1 - Surfactants							
	05/06/2014	08:50	767682	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
		EPA 180.1 - Turbidity							
	05/05/2014	13:48	767477	(EPA 180.1)	Turbidity	0.16	NTU	0.05	1

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		SM2510B - Specific Conductance						
	05/06/2014 10:39	767914	(SM2510B)	Specific Conductance, 25 C	390	umho/cm	2	1
		SM 2120B - Apparent Color						
	05/05/2014 13:58	767537	(SM 2120B)	Apparent Color	3.0	ACU	3	1
		4500P-E/365.1 - Orthophosphate as P (OPO4)						
	05/06/2014 09:26	767681	(4500P-E/365.1)	Orthophosphate as P	0.044	mg/L	0.01	1
Travel Blank (201405050184)						**Sampled on 05/05/2014 0800**		
		EPA 551.1 - EDB/DBCP/HAN by EPA 551.1						
5/9/2014	05/09/2014 15:48	768827	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/9/2014	05/09/2014 15:48	768827	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
5/9/2014	05/09/2014 15:48	768827	(EPA 551.1)	1,2-Dibromopropane	96	%		1
		EPA 524.2 - Volatile Organics by GCMS						
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	2,2-Dichloropropane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Bromoethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Bromoform	ND (LE)	ug/L	0.5	1

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5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Carbon disulfide	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Carbon Tetrachloride	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Chlorodibromomethane	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Chloroethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	cis-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Dichlorodifluoromethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Di-isopropyl ether	ND (LK)	ug/L	3	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	m,p-Xylenes	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 479896

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Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/05/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	trans-1,3-Dichloropropene	ND (LE)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Trichlorofluoromethane	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND (LK)	ug/L	0.5	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Vinyl chloride (VC)	ND (LK)	ug/L	0.3	1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	1,2-Dichloroethane-d4	112	%		1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	4-Bromofluorobenzene	101	%		1
5/14/2014	05/14/2014 13:17	769820	(EPA 524.2)	Toluene-d8	98	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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QC Ref # 767291 - PH (H3=past HT not compliant) **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: 6Q4
201405050183	FW-03-055-Q2	Analyzed by: 6Q4

QC Ref # 767477 - Turbidity **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: MXT
201405050183	FW-03-055-Q2	Analyzed by: MXT

QC Ref # 767533 - Odor at 60 C (TON) **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: MIA8
201405050183	FW-03-055-Q2	Analyzed by: MIA8

QC Ref # 767537 - Apparent Color **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: MIA8
201405050183	FW-03-055-Q2	Analyzed by: MIA8

QC Ref # 767562 - ICP Metals **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: NINA
201405050183	FW-03-055-Q2	Analyzed by: NINA

QC Ref # 767594 - ICPMS Metals **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: SXK
201405050183	FW-03-055-Q2	Analyzed by: SXK

QC Ref # 767663 - Hexavalent chromium(Dissolved) **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: TLH
201405050183	FW-03-055-Q2	Analyzed by: TLH

QC Ref # 767681 - Orthophosphate as P (OPO4) **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: AF1
201405050183	FW-03-055-Q2	Analyzed by: AF1

QC Ref # 767682 - Surfactants **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: AF1
201405050183	FW-03-055-Q2	Analyzed by: AF1

QC Ref # 767699 - Aldicarbs **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: XWO
201405050183	FW-03-055-Q2	Analyzed by: XWO

QC Ref # 767709 - Cyanide **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: JMO
201405050183	FW-03-055-Q2	Analyzed by: JMO

QC Ref # 767729 - Coliform,Pres/Absence,24 Hours **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: A35W
201405050183	FW-03-055-Q2	Analyzed by: A35W

QC Ref # 767735 - Nitrate, Nitrite by EPA 300.0 **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: CYP
201405050183	FW-03-055-Q2	Analyzed by: CYP

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QC Ref # 767740 - Chloride, Sulfate by EPA 300.0 — **Analysis Date: 05/05/2014**

201405050183	FW-03-055-Q2	Analyzed by: CYP
201405050183	FW-03-055-Q2	Analyzed by: CYP

QC Ref # 767752 - ICP Metals — **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: NINA
201405050183	FW-03-055-Q2	Analyzed by: NINA

QC Ref # 767854 - Perchlorate — **Analysis Date: 05/07/2014**

201405050183	FW-03-055-Q2	Analyzed by: LUPE
201405050183	FW-03-055-Q2	Analyzed by: LUPE

QC Ref # 767900 - Alkalinity in CaCO3 units — **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: 6Q4
201405050183	FW-03-055-Q2	Analyzed by: 6Q4

QC Ref # 767914 - Specific Conductance — **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: 6Q4
201405050183	FW-03-055-Q2	Analyzed by: 6Q4

QC Ref # 767951 - Fluoride — **Analysis Date: 05/06/2014**

201405050183	FW-03-055-Q2	Analyzed by: 6Q4
201405050183	FW-03-055-Q2	Analyzed by: 6Q4

QC Ref # 768297 - ICPMS Metals — **Analysis Date: 05/08/2014**

201405050183	FW-03-055-Q2	Analyzed by: SXK
201405050183	FW-03-055-Q2	Analyzed by: SXK

QC Ref # 768421 - Organochlorine Pesticides/PCBs — **Analysis Date: 05/09/2014**

201405050183	FW-03-055-Q2	Analyzed by: LRL
201405050183	FW-03-055-Q2	Analyzed by: LRL

QC Ref # 768542 - Chlorophenoxy Herbicides — **Analysis Date: 05/14/2014**

201405050183	FW-03-055-Q2	Analyzed by: DYM
201405050183	FW-03-055-Q2	Analyzed by: DYM

QC Ref # 768661 - Total Dissolved Solids (TDS) — **Analysis Date: 05/09/2014**

201405050183	FW-03-055-Q2	Analyzed by: JRF
201405050183	FW-03-055-Q2	Analyzed by: JRF

QC Ref # 768827 - EDB/DBCP/HAN by EPA 551.1 — **Analysis Date: 05/09/2014**

201405050183	FW-03-055-Q2	Analyzed by: MCP
201405050183	FW-03-055-Q2	Analyzed by: MCP
201405050184	Travel Blank	Analyzed by: MCP
201405050184	Travel Blank	Analyzed by: MCP

QC Ref # 768834 - Diquat and Paraquat — **Analysis Date: 05/12/2014**

201405050183	FW-03-055-Q2	Analyzed by: XWO
201405050183	FW-03-055-Q2	Analyzed by: XWO

QC Ref # 768992 - Endothall — **Analysis Date: 05/12/2014**

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201405050183	FW-03-055-Q2	Analyzed by: CRW
201405050183	FW-03-055-Q2	Analyzed by: CRW

QC Ref # 769142 - Glyphosate **Analysis Date: 05/13/2014**

201405050183	FW-03-055-Q2	Analyzed by: SZZ
201405050183	FW-03-055-Q2	Analyzed by: SZZ

QC Ref # 769820 - Volatile Organics by GCMS **Analysis Date: 05/14/2014**

201405050183	FW-03-055-Q2	Analyzed by: KAM
201405050183	FW-03-055-Q2	Analyzed by: KAM
201405050184	Travel Blank	Analyzed by: KAM
201405050184	Travel Blank	Analyzed by: KAM

QC Ref # 769996 - Mercury Total **Analysis Date: 05/14/2014**

201405050183	FW-03-055-Q2	Analyzed by: AZS
201405050183	FW-03-055-Q2	Analyzed by: AZS

QC Ref # 770160 - 2,3,7,8-TCDD_Dioxin **Analysis Date: 05/16/2014**

201405050183	FW-03-055-Q2	Analyzed by: PAC
201405050183	FW-03-055-Q2	Analyzed by: PAC

QC Ref # 770257 - Asbestos by TEM - >10 microns **Analysis Date: 05/16/2014**

201405050183	FW-03-055-Q2	Analyzed by: CJB
201405050183	FW-03-055-Q2	Analyzed by: CJB

QC Ref # 771215 - Semivolatiles by GCMS **Analysis Date: 05/19/2014**

201405050183	FW-03-055-Q2	Analyzed by: JWC
201405050183	FW-03-055-Q2	Analyzed by: JWC

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 767291 - PH (H3=past HT not compliant) by SM4500-HB						**Analysis Date: 05/06/2014**			
DUP_201405050183	PH (H3=past HT not compliant)	7.7		7.78	Units		(0.000-20)	20	0.52
DUP_201405010582	PH (H3=past HT not compliant)	8.6		8.57	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 767477 - Turbidity by EPA 180.1						**Analysis Date: 05/05/2014**			
DUP1_201405050017	Turbidity	0.16		0.167	NTU		(0.000-20)	20	3.0
LCS1	Turbidity		20	21.5	NTU	108	(90-110)		
LCS2	Turbidity		20	21.5	NTU	108	(90-110)	20	0.0
MBLK	Turbidity			<0.05	NTU				
MRL_CHK	Turbidity		0.05	0.0620	NTU	124	(50-150)		
QC Ref# 767533 - Odor at 60 C (TON) by SM 2150B						**Analysis Date: 05/05/2014**			
DUP1_201405050017	Odor at 60 C (TON)	1.0		1.00	TON		(0.000-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				
QC Ref# 767537 - Apparent Color by SM 2120B						**Analysis Date: 05/05/2014**			
DUP1_201405050017	Apparent Color	ND		ND	ACU		(0.000-20)		
DUP2_201405060087	Apparent Color	10		10.0	ACU		(0.000-20)	20	0.0
MBLK	Apparent Color			<3	ACU				
QC Ref# 767562 - ICP Metals by EPA 200.7						**Analysis Date: 05/05/2014**			
LCS1	Calcium Total ICAP		50	49.0	mg/L	98	(85-115)		
LCS2	Calcium Total ICAP		50	48.0	mg/L	96	(85-115)	20	2.1
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.999	mg/L	100	(50-150)		
MS_201405030053	Calcium Total ICAP	68	50	111	mg/L	86	(70-130)		
MS2_201405010354	Calcium Total ICAP	70	50	119	mg/L	97	(70-130)		
MSD_201405030053	Calcium Total ICAP	68	50	111	mg/L	84	(70-130)	20	0.0
MSD2_201405010354	Calcium Total ICAP	70	50	112	mg/L	85	(70-130)	20	5.2
LCS1	Iron Total ICAP		5.0	5.04	mg/L	101	(85-115)		
LCS2	Iron Total ICAP		5.0	4.88	mg/L	98	(85-115)	20	3.2
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0203	mg/L	101	(50-150)		
MS_201405030053	Iron Total ICAP	ND	5.0	4.74	mg/L	95	(70-130)		
MS2_201405010354	Iron Total ICAP	ND	5.0	4.93	mg/L	99	(70-130)		
MSD_201405030053	Iron Total ICAP	ND	5.0	4.71	mg/L	94	(70-130)	20	0.64
MSD2_201405010354	Iron Total ICAP	ND	5.0	4.69	mg/L	94	(70-130)	20	5.0
LCS1	Magnesium Total ICAP		20	20.6	mg/L	103	(85-115)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Magnesium Total ICAP		20	20.1	mg/L	100	(85-115)	20	2.5
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.103	mg/L	103	(50-150)		
MS_201405030053	Magnesium Total ICAP	25	20	43.3	mg/L	92	(70-130)		
MS2_201405010354	Magnesium Total ICAP	11	20	31.1	mg/L	100	(70-130)		
MSD_201405030053	Magnesium Total ICAP	25	20	42.8	mg/L	89	(70-130)	20	1.2
MSD2_201405010354	Magnesium Total ICAP	11	20	29.6	mg/L	93	(70-130)	20	4.6
LCS1	Potassium Total ICAP		20	19.4	mg/L	97	(85-115)		
LCS2	Potassium Total ICAP		20	19.1	mg/L	96	(85-115)	20	1.6
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.878	mg/L	88	(50-150)		
MS_201405030053	Potassium Total ICAP	4.2	20	23.4	mg/L	96	(70-130)		
MS2_201405010354	Potassium Total ICAP	2.6	20	22.7	mg/L	100	(70-130)		
MSD_201405030053	Potassium Total ICAP	4.2	20	23.1	mg/L	94	(70-130)	20	1.3
MSD2_201405010354	Potassium Total ICAP	2.6	20	21.5	mg/L	95	(70-130)	20	5.4
LCS1	Sodium Total ICAP		50	50.2	mg/L	100	(85-115)		
LCS2	Sodium Total ICAP		50	48.5	mg/L	97	(85-115)	20	3.4
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	0.990	mg/L	99	(50-150)		
MS_201405030053	Sodium Total ICAP	89	50	132	mg/L	86	(70-130)		
MS2_201405010354	Sodium Total ICAP	31	50	81.1	mg/L	100	(70-130)		
MSD_201405030053	Sodium Total ICAP	89	50	131	mg/L	84	(70-130)	20	0.76
MSD2_201405010354	Sodium Total ICAP	31	50	76.9	mg/L	91	(70-130)	20	5.3
QC Ref# 767594 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/05/2014**			
LCS1	Aluminum Total ICAP/MS		200	209	ug/L	105	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	213	ug/L	107	(85-115)	20	1.9
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	21.9	ug/L	109	(50-150)		
MS_201404290579	Aluminum Total ICAP/MS	ND	200	205	ug/L	101	(70-130)		
MS2_201404290286	Aluminum Total ICAP/MS	ND	200	220	ug/L	109	(70-130)		
MSD_201404290579	Aluminum Total ICAP/MS	ND	200	216	ug/L	107	(70-130)	20	5.2
MSD2_201404290286	Aluminum Total ICAP/MS	ND	200	218	ug/L	108	(70-130)	20	0.91
LCS1	Antimony Total ICAP/MS		50	48.8	ug/L	98	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.9	ug/L	98	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201404290579	Antimony Total ICAP/MS	ND	50	52.9	ug/L	106	(70-130)		
MS2_201404290286	Antimony Total ICAP/MS	ND	50	58.2	ug/L	116	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201404290579	Antimony Total ICAP/MS	ND	50	56.2	ug/L	112	(70-130)	20	6.0
MSD2_201404290286	Antimony Total ICAP/MS	ND	50	55.7	ug/L	111	(70-130)	20	4.4
LCS1	Arsenic Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201404290579	Arsenic Total ICAP/MS	ND	20	25.8	ug/L	126	(70-130)		
MS2_201404290286	Arsenic Total ICAP/MS	ND	20	24.2	ug/L	117	(70-130)		
MSD_201404290579	Arsenic Total ICAP/MS	ND	20	26.2	ug/L	128	(70-130)	20	1.5
MSD2_201404290286	Arsenic Total ICAP/MS	ND	20	23.9	ug/L	116	(70-130)	20	1.3
LCS1	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.21	ug/L	110	(50-150)		
MS_201404290579	Barium Total ICAP/MS	67	100	177	ug/L	110	(70-130)		
MS2_201404290286	Barium Total ICAP/MS	21	100	140	ug/L	119	(70-130)		
MSD_201404290579	Barium Total ICAP/MS	67	100	188	ug/L	121	(70-130)	20	6.0
MSD2_201404290286	Barium Total ICAP/MS	21	100	133	ug/L	112	(70-130)	20	5.1
LCS1	Beryllium Total ICAP/MS		5.0	4.96	ug/L	99	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.02	ug/L	100	(85-115)	20	1.2
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201404290579	Beryllium Total ICAP/MS	ND	5.0	5.93	ug/L	119	(70-130)		
MS2_201404290286	Beryllium Total ICAP/MS	ND	5.0	6.02	ug/L	120	(70-130)		
MSD_201404290579	Beryllium Total ICAP/MS	ND	5.0	6.18	ug/L	124	(70-130)	20	4.1
MSD2_201404290286	Beryllium Total ICAP/MS	ND	5.0	5.82	ug/L	116	(70-130)	20	3.4
LCS1	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	1.9
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.531	ug/L	106	(50-150)		
MS_201404290579	Cadmium Total ICAP/MS	ND	20	20.9	ug/L	105	(70-130)		
MS2_201404290286	Cadmium Total ICAP/MS	ND	20	23.8	ug/L	119	(70-130)		
MSD_201404290579	Cadmium Total ICAP/MS	ND	20	22.2	ug/L	111	(70-130)	20	6.0
MSD2_201404290286	Cadmium Total ICAP/MS	ND	20	22.6	ug/L	113	(70-130)	20	5.2
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	1.9
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		

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Laboratory QC
Report: 479896

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201404290579	Chromium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MS2_201404290286	Chromium Total ICAP/MS	1.2	100	111	ug/L	110	(70-130)		
MSD_201404290579	Chromium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)	20	4.6
MSD2_201404290286	Chromium Total ICAP/MS	1.2	100	110	ug/L	109	(70-130)	20	0.91
LCS1	Cobalt Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	106	ug/L	106	(85-115)	20	0.94
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.13	ug/L	106	(50-150)		
MS_201404290579	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201404290286	Cobalt Total ICAP/MS	ND	100	108	ug/L	108	(70-130)		
MSD_201404290579	Cobalt Total ICAP/MS	ND	100	108	ug/L	107	(70-130)	20	5.7
MSD2_201404290286	Cobalt Total ICAP/MS	ND	100	108	ug/L	108	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	99.6	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.40
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201404290579	Copper Total ICAP/MS	ND	100	91.1	ug/L	91	(70-130)		
MS2_201404290286	Copper Total ICAP/MS	ND	100	103	ug/L	101	(70-130)		
MSD_201404290579	Copper Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)	20	3.7
MSD2_201404290286	Copper Total ICAP/MS	ND	100	101	ug/L	99	(70-130)	20	2.0
LCS1	Lead Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.3	ug/L	102	(85-115)	20	0.49
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.518	ug/L	104	(50-150)		
MS_201404290579	Lead Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MS2_201404290286	Lead Total ICAP/MS	ND	20	22.2	ug/L	109	(70-130)		
MSD_201404290579	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	4.1
MSD2_201404290286	Lead Total ICAP/MS	ND	20	21.4	ug/L	106	(70-130)	20	3.2
LCS1	Manganese Total ICAP/MS		50	54.7	ug/L	109	(85-115)		
LCS2	Manganese Total ICAP/MS		50	54.5	ug/L	109	(85-115)	20	0.37
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.16	ug/L	108	(50-150)		
MS_201404290579	Manganese Total ICAP/MS	ND	50	53.0	ug/L	105	(70-130)		
MS2_201404290286	Manganese Total ICAP/MS	ND	50	57.9	ug/L	113	(70-130)		
MSD_201404290579	Manganese Total ICAP/MS	ND	50	55.1	ug/L	110	(70-130)	20	3.9
MSD2_201404290286	Manganese Total ICAP/MS	ND	50	58.5	ug/L	115	(70-130)	20	1.0
LCS1	Nickel Total ICAP/MS		50	49.5	ug/L	99	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)	20	1.4

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.12	ug/L	102	(50-150)		
MS_201404290579	Nickel Total ICAP/MS	ND	50	48.2	ug/L	92	(70-130)		
MS2_201404290286	Nickel Total ICAP/MS	ND	50	50.2	ug/L	100	(70-130)		
MSD_201404290579	Nickel Total ICAP/MS	ND	50	49.5	ug/L	95	(70-130)	20	2.7
MSD2_201404290286	Nickel Total ICAP/MS	ND	50	49.6	ug/L	99	(70-130)	20	1.2
LCS1	Selenium Total ICAP/MS		20	20.5	ug/L	103	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.97
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.59	ug/L	112	(50-150)		
MS_201404290579	Selenium Total ICAP/MS	ND	20	30.2	ug/L	**141**	(70-130)		
MS2_201404290286	Selenium Total ICAP/MS	ND	20	28.2	ug/L	**137**	(70-130)		
MSD_201404290579	Selenium Total ICAP/MS	ND	20	32.1	ug/L	**151**	(70-130)	20	6.1
MSD2_201404290286	Selenium Total ICAP/MS	ND	20	26.2	ug/L	127	(70-130)	20	7.7
LCS1	Thallium Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.1	ug/L	101	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.04	ug/L	103	(50-150)		
MS_201404290579	Thallium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MS2_201404290286	Thallium Total ICAP/MS	ND	20	21.7	ug/L	108	(70-130)		
MSD_201404290579	Thallium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	3.5
MSD2_201404290286	Thallium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	4.2
LCS1	Uranium ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Uranium ICAP/MS		20	18.7	ug/L	93	(85-115)	20	0.54
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	0.972	ug/L	97	(50-150)		
MS_201404290579	Uranium ICAP/MS	16	20	37.4	ug/L	109	(70-130)		
MS2_201404290286	Uranium ICAP/MS	ND	20	21.4	ug/L	106	(70-130)		
MSD_201404290579	Uranium ICAP/MS	16	20	39.1	ug/L	118	(70-130)	20	4.4
MSD2_201404290286	Uranium ICAP/MS	ND	20	20.8	ug/L	103	(70-130)	20	2.8
LCS1	Zinc Total ICAP/MS		100	104	ug/L	103	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.5	ug/L	108	(50-150)		
MS_201404290579	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201404290286	Zinc Total ICAP/MS	24	100	145	ug/L	121	(70-130)		
MSD_201404290579	Zinc Total ICAP/MS	ND	100	110	ug/L	110	(70-130)	20	4.7
MSD2_201404290286	Zinc Total ICAP/MS	24	100	141	ug/L	117	(70-130)	20	2.8

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 767663 - Hexavalent chromium(Dissolved) by EPA 218.6						**Analysis Date: 05/05/2014**			
LCS1	Hexavalent chromium(Dissolved)		2.0	1.94	ug/L	97	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	1.95	ug/L	98	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.020	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.02	0.0184	ug/L	92	(50-150)		
MS_201405020222	Hexavalent chromium(Dissolved)	6.5	2.0	8.52	ug/L	99	(90-110)		
MSD_201405020222	Hexavalent chromium(Dissolved)	6.5	2.0	8.53	ug/L	100	(90-110)	20	0.12
QC Ref# 767681 - Orthophosphate as P (OPO4) by 4500P-E/365.1						**Analysis Date: 05/06/2014**			
LCS1	Orthophosphate as P		0.25	0.244	mg/L	98	(90-110)		
LCS2	Orthophosphate as P		0.25	0.243	mg/L	97	(90-110)	20	0.41
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0100	mg/L	100	(50-150)		
MS_201405020315	Orthophosphate as P	ND	0.5	0.514	mg/L	103	(90-110)		
MSD_201405020315	Orthophosphate as P	ND	0.5	0.494	mg/L	99	(90-110)	20	4.0
QC Ref# 767682 - Surfactants by SM 5540C/EPA 425.1						**Analysis Date: 05/06/2014**			
LCS1	Surfactants		0.2	0.183	mg/L	91	(90-110)		
LCS2	Surfactants		0.2	0.206	mg/L	103	(90-110)	20	12
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0633	mg/L	127	(50-150)		
MS_201405050173	Surfactants	ND	0.2	0.213	mg/L	99	(80-120)		
MSD_201405050173	Surfactants	ND	0.2	0.226	mg/L	105	(80-120)	20	5.9
QC Ref# 767699 - Aldicarbs by EPA 531.2						**Analysis Date: 05/06/2014**			
CCCH	3-Hydroxycarbofuran		25	25.7	ug/L	103	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.5	ug/L	105	(70-130)		
LCS2	3-Hydroxycarbofuran			5.64	ug/L				
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.666	ug/L	133	(50-150)		
MS1_201405050183	3-Hydroxycarbofuran	ND	5.0	5.46	ug/L	109	(70-130)		
MSD1_201405050183	3-Hydroxycarbofuran	ND	5.0	4.82	ug/L	97	(70-130)	20	13
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		123	%	123	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
LCS2	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		97.0	%	97	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		110	%	110	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		95.0	%	95	(70-130)		
MS1_201405050183	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		113	%	113	(70-130)		
MSD1_201405050183	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		115	%	115	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Aldicarb (Temik)		25	23.7	ug/L	95	(70-130)		
CCCM	Aldicarb (Temik)		10	9.64	ug/L	96	(70-130)		
LCS2	Aldicarb (Temik)			4.72	ug/L				
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.502	ug/L	100	(50-150)		
MS1_201405050183	Aldicarb (Temik)	ND	5.0	4.98	ug/L	100	(70-130)		
MSD1_201405050183	Aldicarb (Temik)	ND	5.0	5.15	ug/L	103	(70-130)	20	3.2
CCCH	Aldicarb sulfone		25	25.6	ug/L	103	(70-130)		
CCCM	Aldicarb sulfone		10	10.2	ug/L	102	(70-130)		
LCS2	Aldicarb sulfone			5.63	ug/L				
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.710	ug/L	142	(50-150)		
MS1_201405050183	Aldicarb sulfone	ND	5.0	4.95	ug/L	99	(70-130)		
MSD1_201405050183	Aldicarb sulfone	ND	5.0	5.40	ug/L	108	(70-130)	20	8.7
CCCH	Aldicarb sulfoxide		25	26.1	ug/L	104	(70-130)		
CCCM	Aldicarb sulfoxide		10	10.6	ug/L	106	(70-130)		
LCS2	Aldicarb sulfoxide			5.87	ug/L				
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.720	ug/L	144	(50-150)		
MS1_201405050183	Aldicarb sulfoxide	ND	5.0	5.56	ug/L	111	(70-130)		
MSD1_201405050183	Aldicarb sulfoxide	ND	5.0	5.60	ug/L	112	(70-130)	20	0.72
CCCH	Baygon		25	24.9	ug/L	100	(70-130)		
CCCM	Baygon		10	10.5	ug/L	105	(70-130)		
LCS2	Baygon			5.30	ug/L				
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.638	ug/L	128	(50-150)		
MS1_201405050183	Baygon	ND	5.0	5.26	ug/L	105	(70-130)		
MSD1_201405050183	Baygon	ND	5.0	5.24	ug/L	105	(70-130)	20	0.38
CCCH	Carbaryl		25	25.8	ug/L	103	(70-130)		
CCCM	Carbaryl		10	9.97	ug/L	100	(70-130)		
LCS2	Carbaryl			5.64	ug/L				
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.684	ug/L	137	(50-150)		
MS1_201405050183	Carbaryl	ND	5.0	4.90	ug/L	98	(70-130)		
MSD1_201405050183	Carbaryl	ND	5.0	5.09	ug/L	102	(70-130)	20	3.8
CCCH	Carbofuran (Furadan)		25	25.6	ug/L	103	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.6	ug/L	107	(70-130)		
LCS2	Carbofuran (Furadan)			5.01	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.652	ug/L	130	(50-150)		
MS1_201405050183	Carbofuran (Furadan)	ND	5.0	5.18	ug/L	104	(70-130)		
MSD1_201405050183	Carbofuran (Furadan)	ND	5.0	4.77	ug/L	95	(70-130)	20	8.2
CCCH	Methiocarb		25	25.8	ug/L	103	(70-130)		
CCCM	Methiocarb		10	10.1	ug/L	101	(70-130)		
LCS2	Methiocarb			5.37	ug/L				
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.579	ug/L	116	(50-150)		
MS1_201405050183	Methiocarb	ND	5.0	5.31	ug/L	106	(70-130)		
MSD1_201405050183	Methiocarb	ND	5.0	5.22	ug/L	104	(70-130)	20	1.7
CCCH	Methomyl		25	25.4	ug/L	102	(70-130)		
CCCM	Methomyl		10	10.3	ug/L	103	(70-130)		
LCS2	Methomyl			4.98	ug/L				
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.573	ug/L	115	(50-150)		
MS1_201405050183	Methomyl	ND	5.0	4.67	ug/L	93	(70-130)		
MSD1_201405050183	Methomyl	ND	5.0	4.97	ug/L	99	(70-130)	20	6.2
CCCH	Oxamyl (Vydate)		25	26.1	ug/L	104	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.36	ug/L	94	(70-130)		
LCS2	Oxamyl (Vydate)			4.74	ug/L				
MBLK	Oxamyl (Vydate)			<0.16	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.694	ug/L	139	(50-150)		
MS1_201405050183	Oxamyl (Vydate)	ND	5.0	5.02	ug/L	100	(70-130)		
MSD1_201405050183	Oxamyl (Vydate)	ND	5.0	5.26	ug/L	105	(70-130)	20	4.7
QC Ref# 767709 - Cyanide by SM4500CN-F						**Analysis Date: 05/06/2014**			
LCS1	Cyanide		0.1	0.105	mg/L	105	(90-110)		
LCS2	Cyanide		0.1	0.103	mg/L	103	(90-110)	20	1.9
MBLK	Cyanide			<0.025	mg/L				
MRL_CHK	Cyanide		0.025	0.0249	mg/L	100	(50-150)		
MS_201405010683	Cyanide	ND	0.1	0.106	mg/L	99	(80-120)		
MS_201405020315	Cyanide	ND	0.1	0.106	mg/L	97	(80-120)		
MSD_201405010683	Cyanide	ND	0.1	0.104	mg/L	97	(80-120)	20	1.9
QC Ref# 767735 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						**Analysis Date: 05/05/2014**			
LCS1	Nitrate as Nitrogen by IC		2.5	2.36	mg/L	94	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.36	mg/L	95	(90-110)	20	0.0
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0460	mg/L	92	(50-150)		
MS_201405050017	Nitrate as Nitrogen by IC	0.64	1.3	1.85	mg/L	97	(80-120)		
MS_201405050027	Nitrate as Nitrogen by IC	ND	1.3	1.22	mg/L	97	(80-120)		
MSD_201405050027	Nitrate as Nitrogen by IC	ND	1.3	1.23	mg/L	98	(80-120)	20	0.82
MSD_201405050017	Nitrate as Nitrogen by IC	0.64	1.3	1.86	mg/L	98	(80-120)	20	0.54
LCS1	Nitrite Nitrogen by IC		1.0	1.01	mg/L	101	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.02	mg/L	101	(90-110)	20	0.99
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0483	mg/L	97	(50-150)		
MS_201405050027	Nitrite Nitrogen by IC	ND	0.5	0.509	mg/L	102	(80-120)		
MS_201405050017	Nitrite Nitrogen by IC	ND	0.5	0.520	mg/L	104	(80-120)		
MSD_201405050027	Nitrite Nitrogen by IC	ND	0.5	0.512	mg/L	102	(80-120)	20	0.78
MSD_201405050017	Nitrite Nitrogen by IC	ND	0.5	0.521	mg/L	104	(80-120)	20	0.0
QC Ref# 767740 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						**Analysis Date: 05/05/2014**			
LCS1	Chloride		25	25.0	mg/L	100	(90-110)		
LCS2	Chloride		25	25.1	mg/L	100	(90-110)	20	0.40
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.398	mg/L	80	(50-150)		
MS_201405050017	Chloride	1.7	13	14.4	mg/L	102	(80-120)		
MS_201405050027	Chloride	10	13	23.9	mg/L	108	(80-120)		
MSD_201405050017	Chloride	1.7	13	14.5	mg/L	103	(80-120)	20	0.69
MSD_201405050027	Chloride	10	13	24.1	mg/L	109	(80-120)	20	0.83
LCS1	Sulfate		50	48.6	mg/L	97	(90-110)		
LCS2	Sulfate		50	48.7	mg/L	97	(90-110)	20	0.21
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.896	mg/L	90	(50-150)		
MRLLW	Sulfate		0.25	0.243	mg/L	97	(50-150)		
MS_201405050027	Sulfate	ND	25	24.8	mg/L	99	(80-120)		
MS_201405050017	Sulfate	ND	25	24.7	mg/L	98	(80-120)		
MSD_201405050027	Sulfate	ND	25	25.1	mg/L	100	(80-120)	20	1.2
MSD_201405050017	Sulfate	ND	25	24.9	mg/L	99	(80-120)	20	0.81
QC Ref# 767752 - ICP Metals by EPA 200.7						**Analysis Date: 05/06/2014**			
LCS1	Calcium Total ICAP		50	51.6	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	51.8	mg/L	104	(85-115)	20	0.39
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.07	mg/L	107	(50-150)		
MS_201405010623	Calcium Total ICAP	11	50	59.7	mg/L	97	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201404300437	Calcium Total ICAP	ND	50	51.1	mg/L	102	(70-130)		
MSD_201405010623	Calcium Total ICAP	11	50	61.8	mg/L	101	(70-130)	20	3.5
MSD2_201404300437	Calcium Total ICAP	ND	50	51.6	mg/L	103	(70-130)	20	0.97
LCS1	Dissolved Silica		21	23.3	mg/L	109	(85-115)		
LCS2	Dissolved Silica		21	23.4	mg/L	109	(85-115)	20	0.43
MBLK	Dissolved Silica			<0.211	mg/L				
MRL_CHK	Dissolved Silica		0.42	0.460	mg/L	109	(50-150)		
MS_201405010623	Dissolved Silica	48	21	68.7	mg/L	98	(70-130)		
MS2_201404300437	Dissolved Silica	ND	21	23.1	mg/L	108	(70-130)		
MSD_201405010623	Dissolved Silica	48	21	71.6	mg/L	112	(70-130)	20	4.1
MSD2_201404300437	Dissolved Silica	ND	21	23.8	mg/L	111	(70-130)	20	3.0
LCS1	Iron Total ICAP		5.0	5.17	mg/L	103	(85-115)		
LCS2	Iron Total ICAP		5.0	5.20	mg/L	104	(85-115)	20	0.58
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0255	mg/L	128	(50-150)		
MS_201405010623	Iron Total ICAP	ND	5.0	4.99	mg/L	100	(70-130)		
MS2_201404300437	Iron Total ICAP	ND	5.0	5.07	mg/L	101	(70-130)		
MSD_201405010623	Iron Total ICAP	ND	5.0	5.20	mg/L	104	(70-130)	20	4.1
MSD2_201404300437	Iron Total ICAP	ND	5.0	5.21	mg/L	104	(70-130)	20	2.7
LCS1	Magnesium Total ICAP		20	21.0	mg/L	105	(85-115)		
LCS2	Magnesium Total ICAP		20	21.2	mg/L	106	(85-115)	20	0.47
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.107	mg/L	107	(50-150)		
MS_201405010623	Magnesium Total ICAP	13	20	31.6	mg/L	94	(70-130)		
MS2_201404300437	Magnesium Total ICAP	0.68	20	21.6	mg/L	105	(70-130)		
MSD_201405010623	Magnesium Total ICAP	13	20	32.9	mg/L	100	(70-130)	20	4.0
MSD2_201404300437	Magnesium Total ICAP	0.68	20	21.8	mg/L	106	(70-130)	20	0.92
LCS1	Potassium Total ICAP		20	20.4	mg/L	102	(85-115)		
LCS2	Potassium Total ICAP		20	20.5	mg/L	102	(85-115)	20	0.49
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.993	mg/L	99	(50-150)		
MS_201405010623	Potassium Total ICAP	4.2	20	23.7	mg/L	98	(70-130)		
MS2_201404300437	Potassium Total ICAP	ND	20	21.1	mg/L	103	(70-130)		
MSD_201405010623	Potassium Total ICAP	4.2	20	24.6	mg/L	102	(70-130)	20	3.7
MSD2_201404300437	Potassium Total ICAP	ND	20	21.2	mg/L	103	(70-130)	20	0.47
LCS1	Sodium Total ICAP		50	52.0	mg/L	104	(85-115)		
LCS2	Sodium Total ICAP		50	51.8	mg/L	104	(85-115)	20	0.39
MBLK	Sodium Total ICAP			<0.5	mg/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Sodium Total ICAP		1.0	1.07	mg/L	107	(50-150)		
MS_201405010623	Sodium Total ICAP	48	50	93.3	mg/L	90	(70-130)		
MS2_201404300437	Sodium Total ICAP	ND	50	52.6	mg/L	104	(70-130)		
MSD_201405010623	Sodium Total ICAP	48	50	97.2	mg/L	98	(70-130)	20	4.1
MSD2_201404300437	Sodium Total ICAP	ND	50	53.2	mg/L	105	(70-130)	20	1.1
QC Ref# 767854 - Perchlorate by EPA 314.0						**Analysis Date: 05/07/2014**			
LCS1	Perchlorate		25	25.1	ug/L	100	(85-115)		
LCS2	Perchlorate		25	25.5	ug/L	102	(85-115)	15	1.6
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.09	ug/L	102	(75-125)		
MS_201404300668	Perchlorate	ND	25	25.8	ug/L	103	(80-120)		
MSD_201404300668	Perchlorate	ND	25	25.9	ug/L	103	(80-120)	15	0.39
QC Ref# 767900 - Alkalinity in CaCO3 units by SM 2320B						**Analysis Date: 05/06/2014**			
LCS1	Alkalinity in CaCO3 units		100	99.0	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	100	mg/L	100	(90-110)	20	1.0
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.44	mg/L	122	(50-150)		
MS_201405050183	Alkalinity in CaCO3 units	82	100	166	mg/L	85	(80-120)		
MS_201405010582	Alkalinity in CaCO3 units	27	100	117	mg/L	90	(80-120)		
MSD_201405050183	Alkalinity in CaCO3 units	82	100	170	mg/L	89	(80-120)	20	2.4
MSD_201405010582	Alkalinity in CaCO3 units	27	100	118	mg/L	91	(80-120)	20	0.85
QC Ref# 767914 - Specific Conductance by SM2510B						**Analysis Date: 05/06/2014**			
DUP_201405050183	Specific Conductance	390		391	umho/cm		(0-20)	20	0.61
DUP_201405010582	Specific Conductance	3800		3860	umho/cm		(0-20)	20	0.0
LCS1	Specific Conductance		1000	1020	umho/cm	102	(95-105)		
LCS2	Specific Conductance		1000	1020	umho/cm	102	(95-105)	20	0.0
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.5	1.60	umho/cm	110	(50-150)		
QC Ref# 767951 - Fluoride by SM 4500F-C						**Analysis Date: 05/06/2014**			
LCS1	Fluoride		1.0	1.08	mg/L	108	(81-116)		
LCS2	Fluoride		1.0	1.09	mg/L	109	(81-116)	20	0.92
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0527	mg/L	105	(50-150)		
MS_201404300566	Fluoride	0.28	1.0	1.42	mg/L	114	(73-124)		
MS_201405010488	Fluoride	0.22	1.0	1.43	mg/L	121	(73-124)		
MSD_201404300566	Fluoride	0.28	1.0	1.48	mg/L	121	(73-124)	20	4.1

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405010488	Fluoride	0.22	1.0	1.36	mg/L	114	(73-124)	20	5.0
QC Ref# 768297 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/08/2014**			
LCS1	Silver Total ICAP/MS		50	44.5	ug/L	89	(85-115)		
LCS2	Silver Total ICAP/MS		50	44.3	ug/L	89	(85-115)	20	0.45
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.443	ug/L	89	(50-150)		
MS_201404300426	Silver Total ICAP/MS		50	45.1	ug/L	90	(70-130)		
MS2_201404220581	Silver Total ICAP/MS	ND	50	42.3	ug/L	85	(70-130)		
MSD_201404300426	Silver Total ICAP/MS		50	44.2	ug/L	88	(70-130)	20	2.0
MSD2_201404220581	Silver Total ICAP/MS	ND	50	46.6	ug/L	93	(70-130)	20	9.7
QC Ref# 768421 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 05/08/2014**			
CCCH	Alachlor (Alanex)		1.0	1.04	ug/L	104	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.05	ug/L	105	(70-130)		
LCS1	Alachlor (Alanex)		1.0	1.02	ug/L	102	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.113	ug/L	113	(50-150)		
MS1_201405050031	Alachlor (Alanex)	ND	0.2	0.200	ug/L	100	(65-135)		
MS2_201405050183	Alachlor (Alanex)	ND	1.0	0.985	ug/L	99	(65-135)		
CCCH	Aldrin		0.1	0.109	ug/L	109	(70-130)		
CCCH	Aldrin		0.1	0.105	ug/L	105	(70-130)		
LCS1	Aldrin		0.1	0.107	ug/L	107	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.00980	ug/L	98	(50-150)		
MS1_201405050031	Aldrin	ND	0.02	0.0215	ug/L	108	(65-135)		
MS2_201405050183	Aldrin	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Chlordane		0.5	0.521	ug/L	104	(70-130)		
LCS1	Chlordane		0.5	0.502	ug/L	100	(70-130)		
MBLK	Chlordane			<0.1	ug/L				
MRL_CHK	Chlordane		0.1	0.0976	ug/L	98	(50-150)		
MS1_201405050031	Chlordane	ND	0.5	0.494	ug/L	99	(65-135)		
MS2_201405050183	Chlordane	ND	0.5	0.511	ug/L	102	(65-135)		
CCCH	Dieldrin		0.1	0.105	ug/L	105	(70-130)		
CCCH	Dieldrin		0.1	0.106	ug/L	106	(70-130)		
LCS1	Dieldrin		0.1	0.0949	ug/L	95	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.0101	ug/L	101	(50-150)		
MS1_201405050031	Dieldrin	ND	0.02	0.0204	ug/L	102	(65-135)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201405050183	Dieldrin	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Endrin		0.1	0.0937	ug/L	94	(70-130)		
CCCH	Endrin		0.1	0.0939	ug/L	94	(70-130)		
LCS1	Endrin		0.1	0.101	ug/L	101	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0119	ug/L	119	(50-150)		
MS1_201405050031	Endrin	ND	0.02	0.0208	ug/L	104	(65-135)		
MS2_201405050183	Endrin	ND	0.1	0.0928	ug/L	93	(65-135)		
CCCH	Heptachlor		0.1	0.104	ug/L	104	(70-130)		
CCCH	Heptachlor		0.1	0.102	ug/L	102	(70-130)		
LCS1	Heptachlor		0.1	0.102	ug/L	102	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00990	ug/L	99	(50-150)		
MS1_201405050031	Heptachlor	ND	0.02	0.0203	ug/L	101	(65-135)		
MS2_201405050183	Heptachlor	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.104	ug/L	105	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.100	ug/L	100	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.101	ug/L	101	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0115	ug/L	115	(50-150)		
MS1_201405050031	Heptachlor Epoxide	ND	0.02	0.0211	ug/L	93	(65-135)		
MS2_201405050183	Heptachlor Epoxide	ND	0.1	0.0970	ug/L	97	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.103	ug/L	103	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.103	ug/L	103	(70-130)		
LCS1	Lindane (gamma-BHC)		0.1	0.0949	ug/L	95	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0122	ug/L	122	(50-150)		
MS1_201405050031	Lindane (gamma-BHC)	ND	0.02	0.0219	ug/L	110	(65-135)		
MS2_201405050183	Lindane (gamma-BHC)	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Methoxychlor		0.5	0.478	ug/L	96	(70-130)		
CCCH	Methoxychlor		0.5	0.477	ug/L	95	(70-130)		
LCS1	Methoxychlor		0.5	0.464	ug/L	93	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0664	ug/L	133	(50-150)		
MS1_201405050031	Methoxychlor	ND	0.1	0.0995	ug/L	84	(65-135)		
MS2_201405050183	Methoxychlor	ND	0.5	0.478	ug/L	94	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				

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Laboratory QC
Report: 479896

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			109	%	109	(70-130)		
CCCH	Tetrachlorometaxylene (S)			119	%	119	(70-130)		
LCS1	Tetrachlorometaxylene (S)			113	%	113	(70-130)		
MBLK	Tetrachlorometaxylene (S)			103	%	103	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			111	%	111	(70-130)		
MS1_201405050031	Tetrachlorometaxylene (S)			106	%	106	(70-130)		
MS2_201405050183	Tetrachlorometaxylene (S)			115	%	115	(70-130)		
MBLK	Total PCBs			<0.08	ug/L				
CCCH	Toxaphene		2.5	2.44	ug/L	98	(70-130)		
LCS1	Toxaphene		2.5	2.64	ug/L	106	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.472	ug/L	94	(50-150)		
QC Ref# 768542 - Chlorophenoxy Herbicides by EPA 515.4						**Analysis Date: 05/13/2014**			
CCCH	2,4,5-T		4.0	3.99	ug/L	100	(70-130)		
CCCM	2,4,5-T		1.0	1.03	ug/L	103	(70-130)		
LCS1	2,4,5-T		3.0	2.86	ug/L	95	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.204	ug/L	102	(50-150)		
MS1_201405050183	2,4,5-T	ND	3.0	3.35	ug/L	112	(70-130)		
MSD1_201405050183	2,4,5-T	ND	3.0	3.47	ug/L	116	(70-130)	30	3.5
CCCH	2,4,5-TP (Silvex)		4.0	4.04	ug/L	101	(70-130)		
CCCM	2,4,5-TP (Silvex)		1.0	1.04	ug/L	104	(70-130)		
LCS1	2,4,5-TP (Silvex)		3.0	2.84	ug/L	95	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.219	ug/L	109	(50-150)		
MS1_201405050183	2,4,5-TP (Silvex)	ND	3.0	3.36	ug/L	111	(70-130)		
MSD1_201405050183	2,4,5-TP (Silvex)	ND	3.0	3.48	ug/L	115	(70-130)	30	3.5
CCCH	2,4-D		2.0	2.00	ug/L	100	(70-130)		
CCCM	2,4-D		0.5	0.548	ug/L	110	(70-130)		
LCS1	2,4-D		1.5	1.45	ug/L	96	(70-130)		
MBLK	2,4-D			<0.033	ug/L				
MRL_CHK	2,4-D		0.1	0.111	ug/L	111	(50-150)		
MS1_201405050183	2,4-D	ND	1.5	1.64	ug/L	109	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201405050183	2,4-D	ND	1.5	1.74	ug/L	116	(70-130)	30	5.9
CCCH	2,4-DB		40	41.0	ug/L	102	(70-130)		
CCCM	2,4-DB		10	10.3	ug/L	103	(70-130)		
LCS1	2,4-DB		30	27.8	ug/L	93	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2.0	2.05	ug/L	103	(50-150)		
MS1_201405050183	2,4-DB	ND	30	34.4	ug/L	115	(70-130)		
MSD1_201405050183	2,4-DB	ND	30	35.7	ug/L	119	(70-130)	30	3.7
CCCH	2,4-Dichlorophenyl acetic acid (S)			98.5	%	98	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			103	%	103	(70-130)		
LCS1	2,4-Dichlorophenyl acetic acid (S)			91.1	%	91	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			95.6	%	96	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			100	%	100	(70-130)		
MS1_201405050183	2,4-Dichlorophenyl acetic acid (S)			119	%	119	(70-130)		
MSD1_201405050183	2,4-Dichlorophenyl acetic acid (S)			124	%	124	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	10.0	ug/L	100	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.46	ug/L	99	(70-130)		
LCS1	3,5-Dichlorobenzoic acid		7.5	7.19	ug/L	96	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.429	ug/L	86	(50-150)		
MS1_201405050183	3,5-Dichlorobenzoic acid	ND	7.5	8.04	ug/L	107	(70-130)		
MSD1_201405050183	3,5-Dichlorobenzoic acid	ND	7.5	8.30	ug/L	111	(70-130)	30	3.2
CCCH	4,4-Dibromooctafluorobiphenyl (I)			99.2	%	99	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			97.8	%	98	(50-150)		
LCS1	4,4-Dibromooctafluorobiphenyl (I)			100	%	101	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			111	%	111	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			100	%	100	(50-150)		
MS1_201405050183	4,4-Dibromooctafluorobiphenyl (I)			85.0	%	85	(50-150)		
MSD1_201405050183	4,4-Dibromooctafluorobiphenyl (I)			82.4	%	82	(50-150)		
CCCH	Acifluorfen		4.0	4.21	ug/L	105	(70-130)		
CCCM	Acifluorfen		1.0	1.07	ug/L	107	(70-130)		
LCS1	Acifluorfen		3.0	2.74	ug/L	91	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.209	ug/L	104	(50-150)		
MS1_201405050183	Acifluorfen	ND	3.0	3.59	ug/L	120	(70-130)		
MSD1_201405050183	Acifluorfen	ND	3.0	3.70	ug/L	123	(70-130)	30	3.0
CCCH	Bentazon		10	10.1	ug/L	101	(70-130)		
CCCM	Bentazon		2.5	2.63	ug/L	105	(70-130)		

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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bentazon		7.5	6.61	ug/L	88	(70-130)		
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.337	ug/L	67	(50-150)		
MS1_201405050183	Bentazon	ND	7.5	8.99	ug/L	120	(70-130)		
MSD1_201405050183	Bentazon	ND	7.5	9.32	ug/L	124	(70-130)	30	3.6
CCCH	Dalapon		20	20.9	ug/L	105	(70-130)		
CCCM	Dalapon		5.0	5.49	ug/L	110	(70-130)		
LCS1	Dalapon		15	14.3	ug/L	95	(70-130)		
MBLK	Dalapon			<0.333	ug/L				
MRL_CHK	Dalapon		1.0	1.04	ug/L	104	(50-150)		
MS1_201405050183	Dalapon	ND	15	19.2	ug/L	128	(70-130)		
MSD1_201405050183	Dalapon	ND	15	19.2	ug/L	128	(70-130)	30	0.0
CCCH	Dicamba		2.0	1.96	ug/L	98	(70-130)		
CCCM	Dicamba		0.5	0.460	ug/L	92	(70-130)		
LCS1	Dicamba		1.5	1.56	ug/L	104	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.0741	ug/L	74	(50-150)		
MS1_201405050183	Dicamba	ND	1.5	1.74	ug/L	116	(70-130)		
MSD1_201405050183	Dicamba	ND	1.5	1.78	ug/L	118	(70-130)	30	2.3
CCCH	Dichlorprop		10	9.91	ug/L	99	(70-130)		
CCCM	Dichlorprop		2.5	2.54	ug/L	102	(70-130)		
LCS1	Dichlorprop		7.5	7.47	ug/L	100	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.436	ug/L	87	(50-150)		
MS1_201405050183	Dichlorprop	ND	7.5	8.75	ug/L	117	(70-130)		
MSD1_201405050183	Dichlorprop	ND	7.5	9.00	ug/L	120	(70-130)	30	2.8
CCCH	Dinoseb		4.0	4.06	ug/L	102	(70-130)		
CCCM	Dinoseb		1.0	1.03	ug/L	103	(70-130)		
LCS1	Dinoseb		3.0	2.73	ug/L	91	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.191	ug/L	96	(50-150)		
MS1_201405050183	Dinoseb	ND	3.0	3.34	ug/L	111	(70-130)		
MSD1_201405050183	Dinoseb	ND	3.0	3.42	ug/L	114	(70-130)	30	2.4
CCCH	Pentachlorophenol		0.8	0.824	ug/L	103	(70-130)		
CCCM	Pentachlorophenol		0.2	0.204	ug/L	102	(70-130)		
LCS1	Pentachlorophenol		0.6	0.599	ug/L	100	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0455	ug/L	114	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201405050183	Pentachlorophenol	ND	0.6	0.674	ug/L	112	(70-130)		
MSD1_201405050183	Pentachlorophenol	ND	0.6	0.698	ug/L	116	(70-130)	30	3.5
CCCH	Picloram		2.0	2.01	ug/L	100	(70-130)		
CCCM	Picloram		0.5	0.499	ug/L	100	(70-130)		
LCS1	Picloram		1.5	1.40	ug/L	93	(70-130)		
MBLK	Picloram			<0.033	ug/L				
MRL_CHK	Picloram		0.1	0.0906	ug/L	91	(50-150)		
MS1_201405050183	Picloram	ND	1.5	1.70	ug/L	112	(70-130)		
MSD1_201405050183	Picloram	ND	1.5	1.72	ug/L	113	(70-130)	30	1.2
CCCH	Tot DCPA Mono&Diacid Degradate		2.0	2.12	ug/L	106	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.527	ug/L	105	(70-130)		
LCS1	Tot DCPA Mono&Diacid Degradate		1.5	1.77	ug/L	118	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.113	ug/L	113	(50-150)		
MS1_201405050183	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.66	ug/L	111	(70-130)		
MSD1_201405050183	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.75	ug/L	117	(70-130)	30	5.3
QC Ref# 768661 - Total Dissolved Solids (TDS) by E160.1/SM2540C						**Analysis Date: 05/09/2014**			
DUP_201405030063	Total Dissolved Solid (TDS)	1200		1180	mg/L		(0.000-20)	20	1.2
DUP_201405050100	Total Dissolved Solid (TDS)	720		718	mg/L		(0.000-20)		
LCS1	Total Dissolved Solid (TDS)		175	166	mg/L	95	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	676	mg/L	97	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
QC Ref# 768827 - EDB/DBCP/HAN by EPA 551.1 by EPA 551.1						**Analysis Date: 05/09/2014**			
CCC3	1,2-Dibromopropane (S)			102	%	102	(80-120)		
CCCM2	1,2-Dibromopropane (S)			102	%	102	(80-120)		
DUP1_201405070499	1,2-Dibromopropane (S)			103	%	103	(80-120)		
DUP2_201405050017	1,2-Dibromopropane (S)			90.2	%	90	(80-120)		
LCS2	1,2-Dibromopropane (S)			99.4	%	99	(80-120)		
MBLK	1,2-Dibromopropane (S)			107	%	107	(80-120)		
MRL_CHK	1,2-Dibromopropane (S)			104	%	104	(80-120)		
MS_201405050022	1,2-Dibromopropane (S)			99.4	%	99	(80-120)		
MS2_201405050183	1,2-Dibromopropane (S)			99.0	%	99	(80-120)		
CCC3	Dibromochloropropane (DBCP)		0.25	0.247	ug/L	99	(80-120)		
CCCM2	Dibromochloropropane (DBCP)		0.05	0.0570	ug/L	114	(80-120)		
DUP1_201405070499	Dibromochloropropane (DBCP)	0.19		0.198	ug/L		(0.000-20)	20	4.0
DUP2_201405050017	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0.000-20)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dibromochloropropane (DBCP)		0.25	0.249	ug/L	100	(80-120)		
MBLK	Dibromochloropropane (DBCP)			<0.01	ug/L				
MRL_CHK	Dibromochloropropane (DBCP)		0.01	0.0114	ug/L	114	(50-150)		
MS_201405050022	Dibromochloropropane (DBCP)	ND	0.25	0.251	ug/L	100	(80-120)		
MS2_201405050183	Dibromochloropropane (DBCP)	ND	0.05	0.0558	ug/L	112	(80-120)		
CCC3	Ethylene Dibromide (EDB)		0.25	0.245	ug/L	98	(80-120)		
CCCM2	Ethylene Dibromide (EDB)		0.05	0.0472	ug/L	94	(80-120)		
DUP1_201405070499	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
DUP2_201405050017	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
LCS2	Ethylene Dibromide (EDB)		0.25	0.243	ug/L	97	(80-120)		
MBLK	Ethylene Dibromide (EDB)			<0.01	ug/L				
MRL_CHK	Ethylene Dibromide (EDB)		0.01	0.00960	ug/L	96	(50-150)		
MS_201405050022	Ethylene Dibromide (EDB)	ND	0.25	0.246	ug/L	98	(80-120)		
MS2_201405050183	Ethylene Dibromide (EDB)	ND	0.05	0.0474	ug/L	95	(80-120)		
QC Ref# 768834 - Diquat and Paraquat by EPA 549.2						**Analysis Date: 05/12/2014**			
CCCH	Diquat		10	10.3	ug/L	103	(80-120)		
CCCL	Diquat		0.4	0.394	ug/L	99	(80-120)		
CCCM	Diquat		4.0	4.04	ug/L	101	(80-120)		
LCS1	Diquat		5.0	4.39	ug/L	88	(70-130)		
LCS2	Diquat		5.0	4.43	ug/L	89	(70-130)	20	0.91
MBLK	Diquat			<0.2	ug/L				
MRL_CHK	Diquat		0.4	0.344	ug/L	86	(50-150)		
MS_201405050183	Diquat	ND	5.0	4.02	ug/L	81	(70-130)		
MS2_201404300449	Diquat	ND	5.0	4.38	ug/L	88	(70-130)		
MSD_201405050183	Diquat	ND	5.0	4.10	ug/L	82	(70-130)	20	2.0
CCCH	Paraquat		10	9.30	ug/L	93	(80-120)		
CCCL	Paraquat		2.0	2.14	ug/L	107	(80-120)		
CCCM	Paraquat		4.0	3.87	ug/L	97	(80-120)		
LCS1	Paraquat		5.0	4.23	ug/L	85	(70-130)		
LCS2	Paraquat		5.0	4.30	ug/L	86	(70-130)	20	1.6
MBLK	Paraquat			<1	ug/L				
MRL_CHK	Paraquat		2.0	1.77	ug/L	88	(50-150)		
MS_201405050183	Paraquat	ND	5.0	4.13	ug/L	83	(70-130)		
MS2_201404300449	Paraquat	ND	5.0	4.21	ug/L	84	(70-130)		
MSD_201405050183	Paraquat	ND	5.0	4.17	ug/L	84	(70-130)	20	0.96
QC Ref# 768979 - Endothall by EPA 548.1						**Analysis Date: 05/09/2014**			
LCS1	Endothall		25	24.2	ug/L	97	(70-130)		

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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5.0	5.83	ug/L	117	(50-150)		
MS_201405050022	Endothall	ND	25	24.6	ug/L	98	(70-130)		
MS_2ND_201405050031	Endothall	ND	25	27.3	ug/L	109	(70-130)		
MSD_201405050022	Endothall	ND	25	25.8	ug/L	103	(70-130)	30	4.8
QC Ref# 769142 - Glyphosate by EPA 547						**Analysis Date: 05/13/2014**			
CCCH	Glyphosate		25	22.9	ug/L	92	(80-120)		
CCCM	Glyphosate		10	9.17	ug/L	92	(80-120)		
LCS1	Glyphosate		10	9.83	ug/L	98	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.51	ug/L	92	(50-150)		
MS_201405050225	Glyphosate	ND	10	9.00	ug/L	90	(70-130)		
MS2_201405020157	Glyphosate	ND	10	9.19	ug/L	92	(70-130)		
MSD_201405050225	Glyphosate	ND	10	9.87	ug/L	99	(70-130)	20	9.2
QC Ref# 769820 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 05/14/2014**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.39	ug/L	108	(70-130)	20	1.3
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	1.04	ug/L	**208**	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	6.07	ug/L	121	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	6.16	ug/L	123	(70-130)	20	1.5
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.350	ug/L	70	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.80	ug/L	96	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.76	ug/L	95	(70-130)	20	0.84
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.53	ug/L	111	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.54	ug/L	111	(70-130)	20	0.18
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloroethane		5.0	6.29	ug/L	126	(70-130)		
LCS2	1,1-Dichloroethane		5.0	6.06	ug/L	121	(70-130)	20	3.7
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	6.06	ug/L	121	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	6.01	ug/L	120	(70-130)	20	0.83

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 479896

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,1-Dichloropropene		5.0	6.25	ug/L	125	(70-130)		
LCS2	1,1-Dichloropropene		5.0	6.24	ug/L	125	(70-130)	20	0.16
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.91	ug/L	118	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.77	ug/L	115	(70-130)	20	2.4
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.92	ug/L	98	(70-130)	20	2.2
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.66	ug/L	113	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.51	ug/L	110	(70-130)	20	2.7
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	6.09	ug/L	122	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.77	ug/L	115	(70-130)	20	5.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.88	ug/L	118	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.93	ug/L	119	(70-130)	20	0.85
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.78	ug/L	116	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.63	ug/L	113	(70-130)	20	2.6
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.93	ug/L	119	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.56	ug/L	111	(70-130)	20	6.4
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				

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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.70	ug/L	114	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.67	ug/L	113	(70-130)	20	0.53
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
LCS1	2,2-Dichloropropane		5.0	7.35	ug/L	**147**	(70-130)		
LCS2	2,2-Dichloropropane		5.0	7.58	ug/L	**152**	(70-130)	20	3.1
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.440	ug/L	88	(50-150)		
LCS1	2-Butanone (MEK)		50	47.1	ug/L	94	(70-130)		
LCS2	2-Butanone (MEK)		50	46.6	ug/L	93	(70-130)	20	1.1
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	6.30	ug/L	126	(50-150)		
LCS1	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			98.2	%	98	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	50.6	ug/L	101	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.1	ug/L	100	(70-130)	20	0.99
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.54	ug/L	111	(50-150)		
LCS1	Benzene		5.0	6.09	ug/L	122	(70-130)		
LCS2	Benzene		5.0	6.17	ug/L	123	(70-130)	20	1.3
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Bromobenzene		5.0	5.30	ug/L	106	(70-130)		
LCS2	Bromobenzene		5.0	5.27	ug/L	105	(70-130)	20	0.57
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromochloromethane		5.0	6.08	ug/L	122	(70-130)		
LCS2	Bromochloromethane		5.0	5.98	ug/L	120	(70-130)	20	1.7
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Bromodichloromethane		5.0	5.39	ug/L	108	(70-130)		
LCS2	Bromodichloromethane		5.0	5.75	ug/L	115	(70-130)	20	6.5
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.400	ug/L	80	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromoethane		5.0	6.80	ug/L	**136**	(70-130)		
LCS2	Bromoethane		5.0	6.59	ug/L	**132**	(70-130)	20	3.1
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Bromoform		5.0	4.86	ug/L	97	(70-130)		
LCS2	Bromoform		5.0	5.19	ug/L	104	(70-130)	20	6.6
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.930	ug/L	**186**	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	7.11	ug/L	**142**	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	7.06	ug/L	**141**	(70-130)	20	0.71
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Carbon disulfide		5.0	4.62	ug/L	92	(70-130)		
LCS2	Carbon disulfide		5.0	4.99	ug/L	100	(70-130)	20	7.7
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.830	ug/L	**166**	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.70	ug/L	114	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.78	ug/L	116	(70-130)	20	1.4
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.910	ug/L	**182**	(50-150)		
LCS1	Chlorobenzene		5.0	5.63	ug/L	113	(70-130)		
LCS2	Chlorobenzene		5.0	5.70	ug/L	114	(70-130)	20	1.2
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.15	ug/L	103	(70-130)	20	2.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	1.01	ug/L	**202**	(50-150)		
LCS1	Chloroethane		5.0	7.41	ug/L	**148**	(70-130)		
LCS2	Chloroethane		5.0	7.08	ug/L	**142**	(70-130)	20	4.5
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	6.17	ug/L	123	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	6.06	ug/L	121	(70-130)	20	1.8
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	7.43	ug/L	**149**	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	7.26	ug/L	**145**	(70-130)	20	2.3

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.370	ug/L	74	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.96	ug/L	119	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	6.11	ug/L	122	(70-130)	20	2.5
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.39	ug/L	108	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.39	ug/L	108	(70-130)	20	0.0
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.950	ug/L	**190**	(50-150)		
LCS1	Dibromomethane		5.0	5.69	ug/L	114	(70-130)		
LCS2	Dibromomethane		5.0	5.78	ug/L	116	(70-130)	20	1.6
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	8.98	ug/L	**180**	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	8.85	ug/L	**177**	(70-130)	20	1.5
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Dichloromethane		5.0	6.26	ug/L	125	(70-130)		
LCS2	Dichloromethane		5.0	6.18	ug/L	124	(70-130)	20	1.3
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Di-isopropyl ether		5.0	6.63	ug/L	**133**	(70-130)		
LCS2	Di-isopropyl ether		5.0	6.53	ug/L	**131**	(70-130)	20	1.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.480	ug/L	96	(50-150)		
LCS1	Ethyl benzene		5.0	5.81	ug/L	116	(70-130)		
LCS2	Ethyl benzene		5.0	5.88	ug/L	118	(70-130)	20	1.2
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Hexachlorobutadiene		5.0	6.21	ug/L	124	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.92	ug/L	118	(70-130)	20	4.8
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Isopropylbenzene		5.0	5.74	ug/L	115	(70-130)		
LCS2	Isopropylbenzene		5.0	5.66	ug/L	113	(70-130)	20	1.4
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.430	ug/L	86	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	m,p-Xylenes		10	12.4	ug/L	123	(70-130)		
LCS2	m,p-Xylenes		10	12.2	ug/L	122	(70-130)	20	1.6
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.900	ug/L	90	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.550	ug/L	110	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.76	ug/L	115	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.71	ug/L	114	(70-130)	20	0.87
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	6.34	ug/L	127	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	6.19	ug/L	124	(70-130)	20	2.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Naphthalene		5.0	5.12	ug/L	102	(70-130)		
LCS2	Naphthalene		5.0	5.07	ug/L	101	(70-130)	20	0.98
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.470	ug/L	94	(50-150)		
LCS1	n-Butylbenzene		5.0	6.26	ug/L	125	(70-130)		
LCS2	n-Butylbenzene		5.0	6.10	ug/L	122	(70-130)	20	2.6
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Propylbenzene		5.0	6.05	ug/L	121	(70-130)		
LCS2	n-Propylbenzene		5.0	5.88	ug/L	118	(70-130)	20	2.9
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.78	ug/L	116	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.80	ug/L	116	(70-130)	20	0.35
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.74	ug/L	115	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.71	ug/L	114	(70-130)	20	0.52
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Xylene		5.0	5.87	ug/L	117	(70-130)		
LCS2	o-Xylene		5.0	5.86	ug/L	117	(70-130)	20	0.17
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.450	ug/L	90	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.74	ug/L	115	(70-130)		

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Laboratory QC
Report: 479896

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	p-Chlorotoluene		5.0	5.64	ug/L	113	(70-130)	20	1.8
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.92	ug/L	118	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.78	ug/L	116	(70-130)	20	2.4
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Isopropyltoluene		5.0	6.08	ug/L	122	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.95	ug/L	119	(70-130)	20	2.2
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.420	ug/L	84	(50-150)		
LCS1	sec-Butylbenzene		5.0	6.01	ug/L	120	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.80	ug/L	116	(70-130)	20	3.6
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Styrene		5.0	6.01	ug/L	120	(70-130)		
LCS2	Styrene		5.0	5.79	ug/L	116	(70-130)	20	3.7
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.470	ug/L	94	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	6.18	ug/L	124	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	6.18	ug/L	124	(70-130)	20	0.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.410	ug/L	82	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	6.27	ug/L	125	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	6.35	ug/L	127	(70-130)	20	1.3
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.410	ug/L	82	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.73	ug/L	115	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.61	ug/L	112	(70-130)	20	2.1
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	6.18	ug/L	124	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	6.35	ug/L	127	(70-130)	20	2.7
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.410	ug/L	82	(50-150)		
LCS1	Toluene		5.0	5.90	ug/L	118	(70-130)		
LCS2	Toluene		5.0	5.85	ug/L	117	(70-130)	20	0.85
MBLK	Toluene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Toluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Toluene-d8 (S)			102	%	102	(70-130)		
LCS2	Toluene-d8 (S)			101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			99.4	%	99	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.2	%	99	(70-130)		
MRLLW	Toluene-d8 (S)			98.6	%	99	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	6.27	ug/L	125	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	6.09	ug/L	122	(70-130)	20	2.9
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.410	ug/L	82	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.43	ug/L	109	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.44	ug/L	109	(70-130)	20	0.18
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	1.03	ug/L	**206**	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	5.89	ug/L	118	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.77	ug/L	115	(70-130)	20	2.1
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.430	ug/L	86	(50-150)		
LCS1	Trichlorofluoromethane		5.0	7.46	ug/L	**149**	(70-130)		
LCS2	Trichlorofluoromethane		5.0	7.17	ug/L	**143**	(70-130)	20	4.0
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.350	ug/L	70	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	7.76	ug/L	**155**	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	7.87	ug/L	**157**	(70-130)	20	1.4
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.320	ug/L	64	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	7.13	ug/L	**143**	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	6.91	ug/L	**138**	(70-130)	20	3.1
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.340	ug/L	68	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.310	ug/L	124	(50-150)		
QC Ref# 769996 - Mercury Total by EPA 245.1						**Analysis Date: 05/14/2014**			
LCS1	Mercury		1.5	1.69	ug/L	113	(85-115)		
LCS2	Mercury		1.5	1.69	ug/L	113	(85-115)	20	0.0
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.229	ug/L	115	(50-150)		
MS_201405050097	Mercury	ND	1.5	1.65	ug/L	109	(70-130)		
MS_201405090695	Mercury	ND	1.5	1.66	ug/L	111	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405090695	Mercury	ND	1.5	1.62	ug/L	108	(70-130)	20	3.0
MSD_201405050097	Mercury	ND	1.5	1.67	ug/L	110	(70-130)	20	1.2
QC Ref# 770160 - 2,3,7,8-TCDD_Dioxin by EPA 1613B						**Analysis Date: 05/15/2014**			
LCS1	2,3,7,8-TCDD		200	170	pg/L	85	(73-146)		
LCS2	2,3,7,8-TCDD		200	166	pg/L	83	(73-146)	20	2.4
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5.0	6.00	pg/L	120	(50-150)		
MS_201405030023	2,3,7,8-TCDD	ND	200	182	pg/L	91	(73-146)		
MS_201405010514	2,3,7,8-TCDD	ND	200	170	pg/L	85	(73-146)		
LCS1	C12-2,3,7,8-TCDD (S)			77.0	%	77	(25-141)		
LCS2	C12-2,3,7,8-TCDD (S)			79.1	%	79	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			79.2	%	79	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)			79.1	%	79	(31-137)		
MS_201405030023	C12-2,3,7,8-TCDD (S)			82.4	%	82	(25-141)		
MS_201405010514	C12-2,3,7,8-TCDD (S)			74.8	%	75	(25-141)		
QC Ref# 770872 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 05/20/2014**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			102	%	102	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			103	%	103	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			98.0	%	98	(70-130)		
LCS1	2,4-Dinitrotoluene		2.0	1.96	ug/L	98	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	2.03	ug/L	102	(70-130)	20	3.5
MRL_CHK	2,4-Dinitrotoluene		0.1	0.118	ug/L	118	(50-150)		
LCS1	2,6-Dinitrotoluene		2.0	1.95	ug/L	98	(70-130)		
LCS2	2,6-Dinitrotoluene		2.0	2.00	ug/L	100	(70-130)	20	2.5
MRL_CHK	2,6-Dinitrotoluene		0.1	0.126	ug/L	126	(50-150)		
LCS1	4,4-DDD		2.0	2.11	ug/L	105	(70-130)		
LCS2	4,4-DDD		2.0	2.09	ug/L	105	(70-130)	20	0.95
MRL_CHK	4,4-DDD		0.1	0.0960	ug/L	96	(50-150)		
LCS1	4,4-DDE		2.0	1.88	ug/L	94	(70-130)		
LCS2	4,4-DDE		2.0	1.91	ug/L	96	(70-130)	20	1.6
MRL_CHK	4,4-DDE		0.1	0.0860	ug/L	86	(50-150)		
LCS1	4,4-DDT		2.0	1.93	ug/L	97	(70-130)		
LCS2	4,4-DDT		2.0	2.00	ug/L	100	(70-130)	20	3.6
MRL_CHK	4,4-DDT		0.1	0.107	ug/L	107	(50-150)		
LCS1	Acenaphthene		2.0	1.97	ug/L	99	(70-130)		
LCS2	Acenaphthene		2.0	2.00	ug/L	100	(70-130)	20	2.0
MRL_CHK	Acenaphthene		0.1	0.0960	ug/L	96	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Acenaphthene-d10 (I)			104	%	104	(50-150)		
LCS2	Acenaphthene-d10 (I)			143	%	143	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			108	%	108	(50-150)		
LCS1	Acenaphthylene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Acenaphthylene		2.0	1.92	ug/L	96	(70-130)	20	2.1
MRL_CHK	Acenaphthylene		0.1	0.0810	ug/L	81	(50-150)		
LCS1	Acetochlor		2.0	2.13	ug/L	106	(70-130)		
LCS2	Acetochlor		2.0	2.08	ug/L	104	(70-130)	20	2.4
MRL_CHK	Acetochlor		0.05	0.0640	ug/L	128	(50-150)		
LCS1	Alachlor		2.0	2.02	ug/L	101	(70-130)		
LCS2	Alachlor		2.0	2.04	ug/L	102	(70-130)	20	0.99
MRL_CHK	Alachlor		0.05	0.0570	ug/L	114	(50-150)		
LCS1	Aldrin		2.0	1.70	ug/L	85	(70-130)		
LCS2	Aldrin		2.0	1.65	ug/L	83	(70-130)	20	3.0
MRL_CHK	Aldrin		0.05	0.0450	ug/L	90	(50-150)		
LCS1	Alpha-BHC		2.0	2.19	ug/L	109	(70-130)		
LCS2	Alpha-BHC		2.0	2.22	ug/L	111	(70-130)	20	1.4
MRL_CHK	Alpha-BHC		0.1	0.118	ug/L	118	(50-150)		
LCS1	alpha-Chlordane		2.0	2.07	ug/L	104	(70-130)		
LCS2	alpha-Chlordane		2.0	1.95	ug/L	98	(70-130)	20	6.0
MRL_CHK	alpha-Chlordane		0.05	0.0320	ug/L	64	(50-150)		
LCS1	Anthracene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Anthracene		2.0	1.94	ug/L	97	(70-130)	20	1.6
MRL_CHK	Anthracene		0.02	0.0220	ug/L	110	(50-150)		
LCS1	Atrazine		2.0	2.05	ug/L	102	(70-130)		
LCS2	Atrazine		2.0	2.16	ug/L	108	(70-130)	20	5.2
MRL_CHK	Atrazine		0.05	0.0390	ug/L	78	(50-150)		
LCS1	Benz(a)Anthracene		2.0	1.91	ug/L	95	(70-130)		
LCS2	Benz(a)Anthracene		2.0	1.98	ug/L	99	(70-130)	20	3.6
MRL_CHK	Benz(a)Anthracene		0.05	0.0580	ug/L	116	(50-150)		
LCS1	Benzo(a)pyrene		2.0	2.00	ug/L	100	(70-130)		
LCS2	Benzo(a)pyrene		2.0	2.02	ug/L	101	(70-130)	20	1
MRL_CHK	Benzo(a)pyrene		0.02	0.0190	ug/L	95	(50-150)		
LCS1	Benzo(b)Fluoranthene		2.0	2.11	ug/L	106	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	2.04	ug/L	102	(70-130)	20	3.4
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0170	ug/L	85	(50-150)		
LCS1	Benzo(g,h,i)Perylene		2.0	2.03	ug/L	101	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	2.04	ug/L	102	(70-130)	20	0.49

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0400	ug/L	80	(50-150)		
LCS1	Benzo(k)Fluoranthene		2.0	2.13	ug/L	106	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	2.27	ug/L	114	(70-130)	20	6.4
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0170	ug/L	85	(50-150)		
LCS1	Beta-BHC		2.0	2.10	ug/L	105	(70-130)		
LCS2	Beta-BHC		2.0	2.10	ug/L	105	(70-130)	20	0.0
MRL_CHK	Beta-BHC		0.1	0.106	ug/L	106	(50-150)		
LCS1	Bromacil		2.0	2.12	ug/L	106	(70-130)		
LCS2	Bromacil		2.0	2.08	ug/L	104	(70-130)	20	1.9
MRL_CHK	Bromacil		0.1	0.118	ug/L	118	(50-150)		
LCS1	Butachlor		2.0	2.09	ug/L	105	(70-130)		
LCS2	Butachlor		2.0	2.11	ug/L	105	(70-130)	20	0.95
MRL_CHK	Butachlor		0.05	0.0570	ug/L	114	(50-150)		
LCS1	Butylbenzylphthalate		2.0	2.06	ug/L	103	(70-130)		
LCS2	Butylbenzylphthalate		2.0	2.11	ug/L	105	(70-130)	20	2.4
MRL_CHK	Butylbenzylphthalate		0.15	0.155	ug/L	103	(50-150)		
LCS1	Caffeine by method 525mod		2.0	1.86	ug/L	93	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.83	ug/L	92	(45-137)	20	1.6
MRL_CHK	Caffeine by method 525mod		0.05	0.0490	ug/L	98	(50-150)		
LCS1	Chlorobenzilate		2.0	1.91	ug/L	95	(70-130)		
LCS2	Chlorobenzilate		2.0	2.16	ug/L	108	(70-130)	20	12
MRL_CHK	Chlorobenzilate		0.1	0.0940	ug/L	94	(50-150)		
LCS1	Chloroneb		2.0	2.02	ug/L	101	(70-130)		
LCS2	Chloroneb		2.0	2.06	ug/L	103	(70-130)	20	2.0
MRL_CHK	Chloroneb		0.1	0.0970	ug/L	97	(50-150)		
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	2.20	ug/L	110	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	2.25	ug/L	113	(70-130)	20	2.3
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0500	ug/L	100	(50-150)		
LCS1	Chlorpyrifos (Dursban)		2.0	2.06	ug/L	103	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	2.05	ug/L	102	(70-130)	20	0.49
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0530	ug/L	106	(50-150)		
LCS1	Chrysene		2.0	2.01	ug/L	100	(70-130)		
LCS2	Chrysene		2.0	2.07	ug/L	104	(70-130)	20	2.9
MRL_CHK	Chrysene		0.02	0.0240	ug/L	120	(50-150)		
LCS1	Chrysene-d12 (I)			97.9	%	98	(50-150)		
LCS2	Chrysene-d12 (I)			140	%	140	(50-150)		
MRL_CHK	Chrysene-d12 (I)			104	%	104	(50-150)		
LCS1	Delta-BHC		2.0	2.14	ug/L	107	(70-130)		

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Laboratory QC
Report: 479896

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Delta-BHC		2.0	2.17	ug/L	109	(70-130)	20	1.4
MRL_CHK	Delta-BHC		0.1	0.111	ug/L	111	(50-150)		
LCS1	Di-(2-Ethylhexyl)adipate		2.0	1.90	ug/L	95	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	2.03	ug/L	102	(70-130)	20	6.1
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.266	ug/L	89	(50-150)		
LCS1	Di(2-Ethylhexyl)phthalate		2.0	1.92	ug/L	96	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	1.97	ug/L	99	(70-130)	20	2.6
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.591	ug/L	99	(50-150)		
LCS1	Diazinon (Qualitative)		2.0	1.85	ug/L	93	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.95	ug/L	98	(70-130)	20	5.3
MRL_CHK	Diazinon (Qualitative)		0.1	0.110	ug/L	110	(50-150)		
LCS1	Dibenz(a,h)Anthracene		2.0	2.14	ug/L	107	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	2.03	ug/L	102	(70-130)	20	5.3
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0540	ug/L	108	(50-150)		
LCS1	Dichlorvos (DDVP)		2.0	2.16	ug/L	108	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	2.20	ug/L	110	(70-130)	20	1.8
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0510	ug/L	102	(50-150)		
LCS1	Dieldrin		2.0	2.13	ug/L	107	(70-130)		
LCS2	Dieldrin		2.0	2.11	ug/L	105	(70-130)	20	0.94
MRL_CHK	Dieldrin		0.1	0.0840	ug/L	84	(50-150)		
LCS1	Diethylphthalate		2.0	2.13	ug/L	106	(70-130)		
LCS2	Diethylphthalate		2.0	2.11	ug/L	106	(70-130)	20	0.94
MRL_CHK	Diethylphthalate		0.15	0.160	ug/L	107	(50-150)		
LCS1	Dimethoate		2.0	1.54	ug/L	77	(35-100)		
LCS2	Dimethoate		2.0	1.70	ug/L	85	(35-100)	20	9.9
MRL_CHK	Dimethoate		0.1	0.0670	ug/L	67	(35-100)		
LCS1	Dimethylphthalate		2.0	2.08	ug/L	104	(70-130)		
LCS2	Dimethylphthalate		2.0	2.07	ug/L	103	(70-130)	20	0.48
MRL_CHK	Dimethylphthalate		0.3	0.301	ug/L	100	(50-150)		
LCS1	Di-n-Butylphthalate		4.0	3.98	ug/L	99	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	3.86	ug/L	96	(70-130)	20	3.1
MRL_CHK	Di-n-Butylphthalate		0.3	0.319	ug/L	106	(50-150)		
LCS1	Di-N-octylphthalate		2.0	1.76	ug/L	88	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.84	ug/L	92	(70-130)	20	4.4
MRL_CHK	Di-N-octylphthalate		0.1	0.0880	ug/L	88	(50-150)		
LCS1	Endosulfan I (Alpha)		2.0	1.99	ug/L	100	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	2.08	ug/L	104	(70-130)	20	4.4
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0500	ug/L	50	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Endosulfan II (Beta)		2.0	1.88	ug/L	94	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	1.92	ug/L	96	(70-130)	20	2.1
MRL_CHK	Endosulfan II (Beta)		0.1	0.138	ug/L	138	(50-150)		
LCS1	Endosulfan Sulfate		2.0	2.18	ug/L	109	(70-130)		
LCS2	Endosulfan Sulfate		2.0	2.11	ug/L	105	(70-130)	20	3.3
MRL_CHK	Endosulfan Sulfate		0.1	0.121	ug/L	121	(50-150)		
LCS1	Endrin		2.0	1.84	ug/L	92	(70-130)		
LCS2	Endrin		2.0	2.14	ug/L	107	(70-130)	20	15
MRL_CHK	Endrin		0.1	0.105	ug/L	105	(50-150)		
LCS1	Endrin Aldehyde		2.0	1.81	ug/L	91	(70-130)		
LCS2	Endrin Aldehyde		2.0	1.84	ug/L	92	(70-130)	20	1.6
MRL_CHK	Endrin Aldehyde		0.1	0.0930	ug/L	93	(50-150)		
LCS1	EPTC		2.0	2.17	ug/L	109	(70-130)		
LCS2	EPTC		2.0	2.10	ug/L	105	(70-130)	20	3.3
MRL_CHK	EPTC		0.1	0.0950	ug/L	95	(50-150)		
LCS1	Fluoranthene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Fluoranthene		2.0	1.94	ug/L	97	(70-130)	20	2.6
MRL_CHK	Fluoranthene		0.05	0.0440	ug/L	88	(50-150)		
LCS1	Fluorene		2.0	1.94	ug/L	97	(70-130)		
LCS2	Fluorene		2.0	1.98	ug/L	99	(70-130)	20	2.0
MRL_CHK	Fluorene		0.05	0.0520	ug/L	104	(50-150)		
LCS1	gamma-Chlordane		2.0	1.92	ug/L	96	(70-130)		
LCS2	gamma-Chlordane		2.0	1.95	ug/L	97	(70-130)	20	1.6
MRL_CHK	gamma-Chlordane		0.05	0.0390	ug/L	78	(50-150)		
LCS1	Heptachlor		2.0	2.15	ug/L	108	(70-130)		
LCS2	Heptachlor		2.0	2.06	ug/L	103	(70-130)	20	4.3
MRL_CHK	Heptachlor		0.04	0.0470	ug/L	118	(50-150)		
LCS1	Heptachlor Epoxide (isomer B)		2.0	2.00	ug/L	100	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2.0	2.09	ug/L	105	(70-130)	20	4.4
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0610	ug/L	122	(50-150)		
LCS1	Hexachlorobenzene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Hexachlorobenzene		2.0	1.91	ug/L	95	(70-130)	20	1.1
MRL_CHK	Hexachlorobenzene		0.05	0.0550	ug/L	110	(50-150)		
LCS1	Hexachlorocyclopentadiene		2.0	2.22	ug/L	111	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	2.35	ug/L	118	(70-130)	20	5.7
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0550	ug/L	110	(50-150)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	2.05	ug/L	103	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	2.06	ug/L	103	(70-130)	20	0.49

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0520	ug/L	104	(50-150)		
LCS1	Isophorone		2.0	2.11	ug/L	105	(70-130)		
LCS2	Isophorone		2.0	2.09	ug/L	104	(70-130)	20	0.95
MRL_CHK	Isophorone		0.1	0.106	ug/L	106	(50-150)		
LCS1	Lindane		2.0	2.08	ug/L	104	(70-130)		
LCS2	Lindane		2.0	2.07	ug/L	103	(70-130)	20	0.48
MRL_CHK	Lindane		0.04	0.0450	ug/L	113	(50-150)		
LCS1	Malathion		2.0	2.21	ug/L	110	(70-130)		
LCS2	Malathion		2.0	2.19	ug/L	109	(70-130)	20	0.91
MRL_CHK	Malathion		0.1	0.101	ug/L	101	(50-150)		
LCS1	Methoxychlor		2.0	2.09	ug/L	104	(70-130)		
LCS2	Methoxychlor		2.0	2.14	ug/L	107	(70-130)	20	2.4
MRL_CHK	Methoxychlor		0.1	0.111	ug/L	111	(50-150)		
LCS1	Metolachlor		2.0	2.09	ug/L	105	(70-130)		
LCS2	Metolachlor		2.0	2.04	ug/L	102	(70-130)	20	2.4
MRL_CHK	Metolachlor		0.05	0.0500	ug/L	100	(50-150)		
LCS1	Metribuzin		2.0	2.03	ug/L	101	(70-130)		
LCS2	Metribuzin		2.0	2.02	ug/L	101	(70-130)	20	0.49
MRL_CHK	Metribuzin		0.05	0.0480	ug/L	96	(50-150)		
LCS1	Molinate		2.0	2.01	ug/L	101	(70-130)		
LCS2	Molinate		2.0	2.05	ug/L	103	(70-130)	20	2.0
MRL_CHK	Molinate		0.1	0.103	ug/L	103	(50-150)		
LCS1	Naphthalene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Naphthalene		2.0	1.94	ug/L	97	(70-130)	20	2.1
MRL_CHK	Naphthalene		0.1	0.100	ug/L	100	(50-150)		
LCS1	Parathion		2.0	1.96	ug/L	98	(70-130)		
LCS2	Parathion		2.0	2.05	ug/L	102	(70-130)	20	4.5
MRL_CHK	Parathion		0.1	0.111	ug/L	111	(50-150)		
LCS1	Pendimethalin		2.0	1.93	ug/L	97	(70-130)		
LCS2	Pendimethalin		2.0	1.91	ug/L	96	(70-130)	20	1.0
MRL_CHK	Pendimethalin		0.1	0.123	ug/L	123	(50-150)		
LCS1	Pentachlorophenol		8.0	10.3	ug/L	129	(70-130)		
LCS2	Pentachlorophenol		8.0	11.3	ug/L	**141**	(70-130)	20	9.3
MRL_CHK	Pentachlorophenol		0.5	0.749	ug/L	150	(50-150)		
LCS1	Permethrin (mixed isomers)		4.0	3.76	ug/L	94	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	3.88	ug/L	97	(70-130)	20	3.4
MRL_CHK	Permethrin (mixed isomers)		0.15	0.279	ug/L	**186**	(50-150)		
LCS1	Perylene-d12 (S)			96.1	%	96	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perylene-d12 (S)			98.1	%	98	(70-130)		
MRL_CHK	Perylene-d12 (S)			88.3	%	88	(70-130)		
LCS1	Phenanthrene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Phenanthrene		2.0	1.94	ug/L	97	(70-130)	20	1.6
MRL_CHK	Phenanthrene		0.02	0.0230	ug/L	115	(50-150)		
LCS1	Phenanthrene-d10 (I)			103	%	103	(50-150)		
LCS2	Phenanthrene-d10 (I)			144	%	144	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			110	%	110	(50-150)		
LCS1	Propachlor		2.0	2.03	ug/L	102	(70-130)		
LCS2	Propachlor		2.0	1.99	ug/L	100	(70-130)	20	2.0
MRL_CHK	Propachlor		0.05	0.0610	ug/L	122	(50-150)		
LCS1	Pyrene		2.0	1.98	ug/L	99	(70-130)		
LCS2	Pyrene		2.0	2.02	ug/L	101	(70-130)	20	2.0
MRL_CHK	Pyrene		0.05	0.0510	ug/L	102	(50-150)		
LCS1	Simazine		2.0	1.95	ug/L	97	(70-130)		
LCS2	Simazine		2.0	2.02	ug/L	101	(70-130)	20	3.5
MRL_CHK	Simazine		0.05	0.0500	ug/L	100	(50-150)		
LCS1	Terbacil		2.0	1.92	ug/L	96	(70-130)		
LCS2	Terbacil		2.0	2.03	ug/L	102	(70-130)	20	5.6
MRL_CHK	Terbacil		0.1	0.0930	ug/L	93	(50-150)		
LCS1	Terbuthylazine		2.0	2.12	ug/L	106	(70-130)		
LCS2	Terbuthylazine		2.0	2.18	ug/L	109	(70-130)	20	2.8
MRL_CHK	Terbuthylazine		0.1	0.0950	ug/L	95	(50-150)		
LCS1	Thiobencarb		2.0	2.04	ug/L	102	(70-130)		
LCS2	Thiobencarb		2.0	2.07	ug/L	103	(70-130)	20	1.5
MRL_CHK	Thiobencarb		0.1	0.0900	ug/L	90	(50-150)		
LCS1	trans-Nonachlor		2.0	2.02	ug/L	101	(70-130)		
LCS2	trans-Nonachlor		2.0	2.02	ug/L	101	(70-130)	20	0.0
MRL_CHK	trans-Nonachlor		0.05	0.0530	ug/L	106	(50-150)		
LCS1	Trifluralin		2.0	2.00	ug/L	100	(70-130)		
LCS2	Trifluralin		2.0	2.07	ug/L	104	(70-130)	20	3.4
MRL_CHK	Trifluralin		0.1	0.115	ug/L	115	(50-150)		
LCS1	Triphenylphosphate (S)			104	%	104	(70-130)		
LCS2	Triphenylphosphate (S)			103	%	103	(70-130)		
MRL_CHK	Triphenylphosphate (S)			102	%	102	(70-130)		

QC Ref# 771194 - Semivolatiles by GCMS by EPA 525.2 **Analysis Date: 05/20/2014**

MBLK	1,3-Dimethyl-2-nitrobenzene (S)			109	%	109	(70-130)
MS_201405090637	1,3-Dimethyl-2-nitrobenzene (S)			99.8	%	100	(70-130)

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405090637	1,3-Dimethyl-2-nitrobenzene (S)			102	%	102	(70-130)		
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MS_201405090637	2,4-Dinitrotoluene	ND	2.0	1.83	ug/L	91	(70-130)		
MSD_201405090637	2,4-Dinitrotoluene	ND	2.0	1.83	ug/L	92	(70-130)	20	0.0
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MS_201405090637	2,6-Dinitrotoluene	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405090637	2,6-Dinitrotoluene	ND	2.0	1.89	ug/L	95	(70-130)	20	1.1
MBLK	4,4-DDD			<0.05	ug/L				
MS_201405090637	4,4-DDD	ND	2.0	2.07	ug/L	104	(70-130)		
MSD_201405090637	4,4-DDD	ND	2.0	2.08	ug/L	104	(70-130)	20	0.48
MBLK	4,4-DDE			<0.05	ug/L				
MS_201405090637	4,4-DDE	ND	2.0	1.72	ug/L	86	(70-130)		
MSD_201405090637	4,4-DDE	ND	2.0	1.80	ug/L	90	(70-130)	20	4.5
MBLK	4,4-DDT			<0.05	ug/L				
MS_201405090637	4,4-DDT	ND	2.0	1.93	ug/L	97	(70-130)		
MSD_201405090637	4,4-DDT	ND	2.0	2.00	ug/L	100	(70-130)	20	3.6
MBLK	Acenaphthene			<0.05	ug/L				
MS_201405090637	Acenaphthene	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	Acenaphthene	ND	2.0	1.96	ug/L	98	(70-130)	20	3.5
MBLK	Acenaphthene-d10 (I)			104	%	104	(50-150)		
MS_201405090637	Acenaphthene-d10 (I)			101	%	101	(50-150)		
MSD_201405090637	Acenaphthene-d10 (I)			104	%	104	(50-150)		
MBLK	Acenaphthylene			<0.05	ug/L				
MS_201405090637	Acenaphthylene	ND	2.0	1.87	ug/L	94	(70-130)		
MSD_201405090637	Acenaphthylene	ND	2.0	1.79	ug/L	89	(70-130)	20	4.4
MBLK	Acetochlor			<0.05	ug/L				
MS_201405090637	Acetochlor	ND	2.0	2.15	ug/L	108	(70-130)		
MSD_201405090637	Acetochlor	ND	2.0	2.16	ug/L	108	(70-130)	20	0.46
MBLK	Alachlor			<0.025	ug/L				
MS_201405090637	Alachlor	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405090637	Alachlor	ND	2.0	1.97	ug/L	99	(70-130)	20	6.4
MBLK	Aldrin			<0.025	ug/L				
MS_201405090637	Aldrin	ND	2.0	1.80	ug/L	90	(70-130)		
MSD_201405090637	Aldrin	ND	2.0	1.58	ug/L	79	(70-130)	20	13
MBLK	Alpha-BHC			<0.05	ug/L				
MS_201405090637	Alpha-BHC	ND	2.0	2.21	ug/L	111	(70-130)		
MSD_201405090637	Alpha-BHC	ND	2.0	2.24	ug/L	112	(70-130)	20	1.8
MBLK	alpha-Chlordane			<0.025	ug/L				

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Laboratory QC
Report: 479896

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405090637	alpha-Chlordane	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	alpha-Chlordane	ND	2.0	2.06	ug/L	103	(70-130)	20	1.5
MBLK	Anthracene			<0.02	ug/L				
MS_201405090637	Anthracene	ND	2.0	1.92	ug/L	96	(70-130)		
MSD_201405090637	Anthracene	ND	2.0	1.92	ug/L	96	(70-130)	20	0.0
MBLK	Atrazine			<0.025	ug/L				
MS_201405090637	Atrazine	ND	2.0	2.06	ug/L	103	(70-130)		
MSD_201405090637	Atrazine	ND	2.0	2.04	ug/L	102	(70-130)	20	0.98
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MS_201405090637	Benz(a)Anthracene	ND	2.0	1.93	ug/L	97	(70-130)		
MSD_201405090637	Benz(a)Anthracene	ND	2.0	1.93	ug/L	96	(70-130)	20	0.0
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MS_201405090637	Benzo(a)pyrene	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405090637	Benzo(a)pyrene	ND	2.0	2.01	ug/L	100	(70-130)	20	1.5
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MS_201405090637	Benzo(b)Fluoranthene	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405090637	Benzo(b)Fluoranthene	ND	2.0	2.08	ug/L	104	(70-130)	20	0.96
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MS_201405090637	Benzo(g,h,i)Perylene	ND	2.0	2.25	ug/L	113	(70-130)		
MSD_201405090637	Benzo(g,h,i)Perylene	ND	2.0	2.12	ug/L	106	(70-130)	20	6.0
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MS_201405090637	Benzo(k)Fluoranthene	ND	2.0	2.26	ug/L	113	(70-130)		
MSD_201405090637	Benzo(k)Fluoranthene	ND	2.0	2.13	ug/L	107	(70-130)	20	5.9
MBLK	Beta-BHC			<0.05	ug/L				
MS_201405090637	Beta-BHC	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Beta-BHC	ND	2.0	2.08	ug/L	104	(70-130)	20	0.48
MBLK	Bromacil			<0.05	ug/L				
MS_201405090637	Bromacil	ND	2.0	2.05	ug/L	103	(70-130)		
MSD_201405090637	Bromacil	ND	2.0	2.04	ug/L	102	(70-130)	20	0.49
MBLK	Butachlor			<0.025	ug/L				
MS_201405090637	Butachlor	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405090637	Butachlor	ND	2.0	2.09	ug/L	104	(70-130)	20	2.4
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MS_201405090637	Butylbenzylphthalate	ND	2.0	2.07	ug/L	103	(70-130)		
MSD_201405090637	Butylbenzylphthalate	ND	2.0	2.08	ug/L	104	(70-130)	20	0.96
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MS_201405090637	Caffeine by method 525mod	ND	2.0	1.56	ug/L	78	(46-144)		
MSD_201405090637	Caffeine by method 525mod	ND	2.0	1.64	ug/L	82	(46-144)	20	5.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chlorobenzilate			<0.05	ug/L				
MS_201405090637	Chlorobenzilate	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405090637	Chlorobenzilate	ND	2.0	1.95	ug/L	98	(70-130)	20	2.5
MBLK	Chloroneb			<0.05	ug/L				
MS_201405090637	Chloroneb	ND	2.0	2.16	ug/L	108	(70-130)		
MSD_201405090637	Chloroneb	ND	2.0	2.00	ug/L	100	(70-130)	20	7.2
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MS_201405090637	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405090637	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.15	ug/L	107	(70-130)	20	1.4
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MS_201405090637	Chlorpyrifos (Dursban)	ND	2.0	2.09	ug/L	104	(70-130)		
MSD_201405090637	Chlorpyrifos (Dursban)	ND	2.0	2.05	ug/L	102	(70-130)	20	1.9
MBLK	Chrysene			<0.01	ug/L				
MS_201405090637	Chrysene	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	Chrysene	ND	2.0	1.98	ug/L	99	(70-130)	20	2.5
MBLK	Chrysene-d12 (I)			94.9	%	95	(50-150)		
MS_201405090637	Chrysene-d12 (I)			97.2	%	97	(50-150)		
MSD_201405090637	Chrysene-d12 (I)			102	%	103	(50-150)		
MBLK	Delta-BHC			<0.05	ug/L				
MS_201405090637	Delta-BHC	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Delta-BHC	ND	2.0	2.04	ug/L	102	(70-130)	20	1.9
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MS_201405090637	Di-(2-Ethylhexyl)adipate	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405090637	Di-(2-Ethylhexyl)adipate	ND	2.0	1.89	ug/L	95	(70-130)	20	1.1
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MS_201405090637	Di(2-Ethylhexyl)phthalate	ND	2.0	1.93	ug/L	97	(70-130)		
MSD_201405090637	Di(2-Ethylhexyl)phthalate	ND	2.0	1.96	ug/L	98	(70-130)	20	1.5
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MS_201405090637	Diazinon (Qualitative)	ND	2.0	1.60	ug/L	80	(70-130)		
MSD_201405090637	Diazinon (Qualitative)	ND	2.0	1.62	ug/L	81	(70-130)	20	1.2
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MS_201405090637	Dibenz(a,h)Anthracene	ND	2.0	2.56	ug/L	128	(70-130)		
MSD_201405090637	Dibenz(a,h)Anthracene	ND	2.0	2.42	ug/L	121	(70-130)	20	5.6
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MS_201405090637	Dichlorvos (DDVP)	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405090637	Dichlorvos (DDVP)	ND	2.0	2.16	ug/L	108	(70-130)	20	7.2
MBLK	Dieldrin			<0.05	ug/L				
MS_201405090637	Dieldrin	ND	2.0	2.08	ug/L	104	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405090637	Dieldrin	ND	2.0	2.17	ug/L	109	(70-130)	20	4.2
MBLK	Diethylphthalate			<0.15	ug/L				
MS_201405090637	Diethylphthalate	ND	2.0	2.13	ug/L	107	(70-130)		
MSD_201405090637	Diethylphthalate	ND	2.0	2.18	ug/L	109	(70-130)	20	2.3
MBLK	Dimethoate			<0.05	ug/L				
MS_201405090637	Dimethoate	ND	2.0	1.24	ug/L	62	(34-111)		
MSD_201405090637	Dimethoate	ND	2.0	1.33	ug/L	66	(34-111)	20	7.0
MBLK	Dimethylphthalate			<0.15	ug/L				
MS_201405090637	Dimethylphthalate	ND	2.0	2.09	ug/L	104	(70-130)		
MSD_201405090637	Dimethylphthalate	ND	2.0	2.10	ug/L	105	(70-130)	20	0.48
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MS_201405090637	Di-n-Butylphthalate	ND	4.0	3.93	ug/L	98	(70-130)		
MSD_201405090637	Di-n-Butylphthalate	ND	4.0	4.01	ug/L	100	(70-130)	20	2.0
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MS_201405090637	Di-N-octylphthalate	ND	2.0	1.72	ug/L	86	(70-130)		
MSD_201405090637	Di-N-octylphthalate	ND	2.0	1.74	ug/L	87	(70-130)	20	1.2
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MS_201405090637	Endosulfan I (Alpha)	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405090637	Endosulfan I (Alpha)	ND	2.0	2.02	ug/L	101	(70-130)	20	0.50
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MS_201405090637	Endosulfan II (Beta)	ND	2.0	2.15	ug/L	107	(70-130)		
MSD_201405090637	Endosulfan II (Beta)	ND	2.0	2.05	ug/L	103	(70-130)	20	4.8
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MS_201405090637	Endosulfan Sulfate	ND	2.0	2.17	ug/L	108	(70-130)		
MSD_201405090637	Endosulfan Sulfate	ND	2.0	2.21	ug/L	111	(70-130)	20	1.8
MBLK	Endrin			<0.05	ug/L				
MS_201405090637	Endrin	ND	2.0	1.80	ug/L	90	(70-130)		
MSD_201405090637	Endrin	ND	2.0	1.96	ug/L	98	(70-130)	20	8.5
MBLK	Endrin Aldehyde			<0.05	ug/L				
MS_201405090637	Endrin Aldehyde	ND	2.0	1.72	ug/L	86	(70-130)		
MSD_201405090637	Endrin Aldehyde	ND	2.0	1.64	ug/L	82	(70-130)	20	4.8
MBLK	EPTC			<0.05	ug/L				
MS_201405090637	EPTC	ND	2.0	2.07	ug/L	104	(70-130)		
MSD_201405090637	EPTC	ND	2.0	2.10	ug/L	105	(70-130)	20	1.4
MBLK	Fluoranthene			<0.05	ug/L				
MS_201405090637	Fluoranthene	ND	2.0	1.87	ug/L	93	(70-130)		
MSD_201405090637	Fluoranthene	ND	2.0	1.88	ug/L	94	(70-130)	20	0.53
MBLK	Fluorene			<0.05	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405090637	Fluorene	ND	2.0	1.98	ug/L	99	(70-130)		
MSD_201405090637	Fluorene	ND	2.0	1.97	ug/L	99	(70-130)	20	0.51
MBLK	gamma-Chlordane			<0.025	ug/L				
MS_201405090637	gamma-Chlordane	ND	2.0	1.94	ug/L	97	(70-130)		
MSD_201405090637	gamma-Chlordane	ND	2.0	1.92	ug/L	96	(70-130)	20	1.0
MBLK	Heptachlor			<0.015	ug/L				
MS_201405090637	Heptachlor	ND	2.0	1.99	ug/L	99	(70-130)		
MSD_201405090637	Heptachlor	ND	2.0	2.12	ug/L	106	(70-130)	20	6.3
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MS_201405090637	Heptachlor Epoxide (isomer B)	ND	2.0	1.96	ug/L	98	(70-130)		
MSD_201405090637	Heptachlor Epoxide (isomer B)	ND	2.0	1.99	ug/L	100	(70-130)	20	1.5
MBLK	Hexachlorobenzene			<0.025	ug/L				
MS_201405090637	Hexachlorobenzene	ND	2.0	1.94	ug/L	97	(70-130)		
MSD_201405090637	Hexachlorobenzene	ND	2.0	1.92	ug/L	96	(70-130)	20	1.0
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MS_201405090637	Hexachlorocyclopentadiene	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Hexachlorocyclopentadiene	ND	2.0	2.20	ug/L	110	(70-130)	20	5.6
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				
MS_201405090637	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.56	ug/L	128	(70-130)		
MSD_201405090637	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.43	ug/L	121	(70-130)	20	5.2
MBLK	Isophorone			<0.25	ug/L				
MS_201405090637	Isophorone	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	Isophorone	ND	2.0	2.07	ug/L	103	(70-130)	20	2.0
MBLK	Lindane			<0.02	ug/L				
MS_201405090637	Lindane	ND	2.0	2.06	ug/L	103	(70-130)		
MSD_201405090637	Lindane	ND	2.0	1.97	ug/L	99	(70-130)	20	4.5
MBLK	Malathion			<0.05	ug/L				
MS_201405090637	Malathion	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405090637	Malathion	ND	2.0	2.19	ug/L	110	(70-130)	20	0.0
MBLK	Methoxychlor			<0.05	ug/L				
MS_201405090637	Methoxychlor	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405090637	Methoxychlor	ND	2.0	2.13	ug/L	107	(70-130)	20	0.47
MBLK	Metolachlor			<0.025	ug/L				
MS_201405090637	Metolachlor	ND	2.0	2.05	ug/L	102	(70-130)		
MSD_201405090637	Metolachlor	ND	2.0	2.02	ug/L	101	(70-130)	20	0.98
MBLK	Metribuzin			<0.05	ug/L				
MS_201405090637	Metribuzin	ND	2.0	2.02	ug/L	101	(70-130)		
MSD_201405090637	Metribuzin	ND	2.0	1.98	ug/L	99	(70-130)	20	2.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Molinate			<0.05	ug/L				
MS_201405090637	Molinate	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405090637	Molinate	ND	2.0	2.03	ug/L	101	(70-130)	20	4.3
MBLK	Naphthalene			<0.05	ug/L				
MS_201405090637	Naphthalene	ND	2.0	1.84	ug/L	92	(70-130)		
MSD_201405090637	Naphthalene	ND	2.0	1.89	ug/L	95	(70-130)	20	2.7
MBLK	Parathion			<0.05	ug/L				
MS_201405090637	Parathion	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405090637	Parathion	ND	2.0	1.96	ug/L	98	(70-130)	20	0.51
MBLK	Pendimethalin			<0.05	ug/L				
MS_201405090637	Pendimethalin	ND	2.0	1.85	ug/L	93	(70-130)		
MSD_201405090637	Pendimethalin	ND	2.0	1.93	ug/L	96	(70-130)	20	4.2
MBLK	Pentachlorophenol			<0.6	ug/L				
MS_201405090637	Pentachlorophenol	ND	8.0	9.97	ug/L	125	(70-130)		
MSD_201405090637	Pentachlorophenol	ND	8.0	9.50	ug/L	119	(70-130)	20	4.8
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MS_201405090637	Permethrin (mixed isomers)	ND	4.0	3.86	ug/L	97	(70-130)		
MSD_201405090637	Permethrin (mixed isomers)	ND	4.0	3.89	ug/L	97	(70-130)	20	0.77
MBLK	Perylene-d12 (S)			80.8	%	81	(70-130)		
MS_201405090637	Perylene-d12 (S)			99.0	%	99	(70-130)		
MSD_201405090637	Perylene-d12 (S)			98.7	%	99	(70-130)		
MBLK	Phenanthrene			<0.02	ug/L				
MS_201405090637	Phenanthrene	ND	2.0	1.87	ug/L	94	(70-130)		
MSD_201405090637	Phenanthrene	ND	2.0	1.87	ug/L	94	(70-130)	20	0.0
MBLK	Phenanthrene-d10 (I)			103	%	103	(50-150)		
MS_201405090637	Phenanthrene-d10 (I)			103	%	103	(50-150)		
MSD_201405090637	Phenanthrene-d10 (I)			106	%	106	(50-150)		
MBLK	Propachlor			<0.025	ug/L				
MS_201405090637	Propachlor	ND	2.0	2.11	ug/L	106	(70-130)		
MSD_201405090637	Propachlor	ND	2.0	2.07	ug/L	104	(70-130)	20	1.9
MBLK	Pyrene			<0.025	ug/L				
MS_201405090637	Pyrene	ND	2.0	1.97	ug/L	98	(70-130)		
MSD_201405090637	Pyrene	ND	2.0	1.99	ug/L	99	(70-130)	20	1.0
MBLK	Simazine			<0.025	ug/L				
MS_201405090637	Simazine	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405090637	Simazine	ND	2.0	2.02	ug/L	101	(70-130)	20	3.5
MBLK	Terbacil			<0.05	ug/L				
MS_201405090637	Terbacil	ND	2.0	1.97	ug/L	99	(70-130)		

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Report: 479896

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405090637	Terbacil	ND	2.0	1.92	ug/L	96	(70-130)	20	2.6
MBLK	Terbuthylazine			<0.2	ug/L				
MS_201405090637	Terbuthylazine	ND	2.0	2.17	ug/L	109	(70-130)		
MSD_201405090637	Terbuthylazine	ND	2.0	2.18	ug/L	109	(70-130)	20	0.46
MBLK	Thiobencarb			<0.1	ug/L				
MS_201405090637	Thiobencarb	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405090637	Thiobencarb	ND	2.0	1.99	ug/L	100	(70-130)	20	2.5
MBLK	trans-Nonachlor			<0.025	ug/L				
MS_201405090637	trans-Nonachlor	ND	2.0	1.99	ug/L	99	(70-130)		
MSD_201405090637	trans-Nonachlor	ND	2.0	2.01	ug/L	100	(70-130)	20	1.0
MBLK	Trifluralin			<0.05	ug/L				
MS_201405090637	Trifluralin	ND	2.0	1.97	ug/L	99	(70-130)		
MSD_201405090637	Trifluralin	ND	2.0	1.98	ug/L	99	(70-130)	20	1.0
MBLK	Triphenylphosphate (S)			108	%	108	(70-130)		
MS_201405090637	Triphenylphosphate (S)			104	%	104	(70-130)		
MSD_201405090637	Triphenylphosphate (S)			104	%	104	(70-130)		
QC Ref# 767291 - PH (H3=past HT not compliant) by SM4500-HB						**Analysis Date: 05/06/2014**			
DUP_201405050183	PH (H3=past HT not compliant)	7.7		7.78	Units		(0.000-20)	20	0.52
DUP_201405010582	PH (H3=past HT not compliant)	8.6		8.57	Units		(0-20)	20	0.0
LCS1	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.01	Units	100	(98-102)	20	0.0
QC Ref# 767477 - Turbidity by EPA 180.1						**Analysis Date: 05/05/2014**			
DUP1_201405050017	Turbidity	0.16		0.167	NTU		(0.000-20)	20	3.0
LCS1	Turbidity		20	21.5	NTU	108	(90-110)		
LCS2	Turbidity		20	21.5	NTU	108	(90-110)	20	0.0
MBLK	Turbidity			<0.05	NTU				
MRL_CHK	Turbidity		0.05	0.0620	NTU	124	(50-150)		
QC Ref# 767533 - Odor at 60 C (TON) by SM 2150B						**Analysis Date: 05/05/2014**			
DUP1_201405050017	Odor at 60 C (TON)	1.0		1.00	TON		(0.000-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				
QC Ref# 767537 - Apparent Color by SM 2120B						**Analysis Date: 05/05/2014**			
DUP1_201405050017	Apparent Color	ND		ND	ACU		(0.000-20)		
DUP2_201405060087	Apparent Color	10		10.0	ACU		(0.000-20)	20	0.0
MBLK	Apparent Color			<3	ACU				
QC Ref# 767562 - ICP Metals by EPA 200.7						**Analysis Date: 05/05/2014**			
LCS1	Calcium Total ICAP		50	49.0	mg/L	98	(85-115)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Calcium Total ICAP		50	48.0	mg/L	96	(85-115)	20	2.1
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	0.999	mg/L	100	(50-150)		
MS_201405030053	Calcium Total ICAP	68	50	111	mg/L	86	(70-130)		
MS2_201405010354	Calcium Total ICAP	70	50	119	mg/L	97	(70-130)		
MSD_201405030053	Calcium Total ICAP	68	50	111	mg/L	84	(70-130)	20	0.0
MSD2_201405010354	Calcium Total ICAP	70	50	112	mg/L	85	(70-130)	20	5.2
LCS1	Iron Total ICAP		5.0	5.04	mg/L	101	(85-115)		
LCS2	Iron Total ICAP		5.0	4.88	mg/L	98	(85-115)	20	3.2
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0203	mg/L	101	(50-150)		
MS_201405030053	Iron Total ICAP	ND	5.0	4.74	mg/L	95	(70-130)		
MS2_201405010354	Iron Total ICAP	ND	5.0	4.93	mg/L	99	(70-130)		
MSD_201405030053	Iron Total ICAP	ND	5.0	4.71	mg/L	94	(70-130)	20	0.64
MSD2_201405010354	Iron Total ICAP	ND	5.0	4.69	mg/L	94	(70-130)	20	5.0
LCS1	Magnesium Total ICAP		20	20.6	mg/L	103	(85-115)		
LCS2	Magnesium Total ICAP		20	20.1	mg/L	100	(85-115)	20	2.5
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.103	mg/L	103	(50-150)		
MS_201405030053	Magnesium Total ICAP	25	20	43.3	mg/L	92	(70-130)		
MS2_201405010354	Magnesium Total ICAP	11	20	31.1	mg/L	100	(70-130)		
MSD_201405030053	Magnesium Total ICAP	25	20	42.8	mg/L	89	(70-130)	20	1.2
MSD2_201405010354	Magnesium Total ICAP	11	20	29.6	mg/L	93	(70-130)	20	4.6
LCS1	Potassium Total ICAP		20	19.4	mg/L	97	(85-115)		
LCS2	Potassium Total ICAP		20	19.1	mg/L	96	(85-115)	20	1.6
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.878	mg/L	88	(50-150)		
MS_201405030053	Potassium Total ICAP	4.2	20	23.4	mg/L	96	(70-130)		
MS2_201405010354	Potassium Total ICAP	2.6	20	22.7	mg/L	100	(70-130)		
MSD_201405030053	Potassium Total ICAP	4.2	20	23.1	mg/L	94	(70-130)	20	1.3
MSD2_201405010354	Potassium Total ICAP	2.6	20	21.5	mg/L	95	(70-130)	20	5.4
LCS1	Sodium Total ICAP		50	50.2	mg/L	100	(85-115)		
LCS2	Sodium Total ICAP		50	48.5	mg/L	97	(85-115)	20	3.4
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	0.990	mg/L	99	(50-150)		
MS_201405030053	Sodium Total ICAP	89	50	132	mg/L	86	(70-130)		
MS2_201405010354	Sodium Total ICAP	31	50	81.1	mg/L	100	(70-130)		
MSD_201405030053	Sodium Total ICAP	89	50	131	mg/L	84	(70-130)	20	0.76

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201405010354	Sodium Total ICAP	31	50	76.9	mg/L	91	(70-130)	20	5.3
QC Ref# 767594 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/05/2014**			
LCS1	Aluminum Total ICAP/MS		200	209	ug/L	105	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	213	ug/L	107	(85-115)	20	1.9
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	21.9	ug/L	109	(50-150)		
MS_201404290579	Aluminum Total ICAP/MS	ND	200	205	ug/L	101	(70-130)		
MS2_201404290286	Aluminum Total ICAP/MS	ND	200	220	ug/L	109	(70-130)		
MSD_201404290579	Aluminum Total ICAP/MS	ND	200	216	ug/L	107	(70-130)	20	5.2
MSD2_201404290286	Aluminum Total ICAP/MS	ND	200	218	ug/L	108	(70-130)	20	0.91
LCS1	Antimony Total ICAP/MS		50	48.8	ug/L	98	(85-115)		
LCS2	Antimony Total ICAP/MS		50	48.9	ug/L	98	(85-115)	20	0.21
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201404290579	Antimony Total ICAP/MS	ND	50	52.9	ug/L	106	(70-130)		
MS2_201404290286	Antimony Total ICAP/MS	ND	50	58.2	ug/L	116	(70-130)		
MSD_201404290579	Antimony Total ICAP/MS	ND	50	56.2	ug/L	112	(70-130)	20	6.0
MSD2_201404290286	Antimony Total ICAP/MS	ND	50	55.7	ug/L	111	(70-130)	20	4.4
LCS1	Arsenic Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.0	ug/L	100	(85-115)	20	0.0
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201404290579	Arsenic Total ICAP/MS	ND	20	25.8	ug/L	126	(70-130)		
MS2_201404290286	Arsenic Total ICAP/MS	ND	20	24.2	ug/L	117	(70-130)		
MSD_201404290579	Arsenic Total ICAP/MS	ND	20	26.2	ug/L	128	(70-130)	20	1.5
MSD2_201404290286	Arsenic Total ICAP/MS	ND	20	23.9	ug/L	116	(70-130)	20	1.3
LCS1	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.21	ug/L	110	(50-150)		
MS_201404290579	Barium Total ICAP/MS	67	100	177	ug/L	110	(70-130)		
MS2_201404290286	Barium Total ICAP/MS	21	100	140	ug/L	119	(70-130)		
MSD_201404290579	Barium Total ICAP/MS	67	100	188	ug/L	121	(70-130)	20	6.0
MSD2_201404290286	Barium Total ICAP/MS	21	100	133	ug/L	112	(70-130)	20	5.1
LCS1	Beryllium Total ICAP/MS		5.0	4.96	ug/L	99	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.02	ug/L	100	(85-115)	20	1.2
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201404290579	Beryllium Total ICAP/MS	ND	5.0	5.93	ug/L	119	(70-130)		
MS2_201404290286	Beryllium Total ICAP/MS	ND	5.0	6.02	ug/L	120	(70-130)		
MSD_201404290579	Beryllium Total ICAP/MS	ND	5.0	6.18	ug/L	124	(70-130)	20	4.1
MSD2_201404290286	Beryllium Total ICAP/MS	ND	5.0	5.82	ug/L	116	(70-130)	20	3.4
LCS1	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	1.9
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.531	ug/L	106	(50-150)		
MS_201404290579	Cadmium Total ICAP/MS	ND	20	20.9	ug/L	105	(70-130)		
MS2_201404290286	Cadmium Total ICAP/MS	ND	20	23.8	ug/L	119	(70-130)		
MSD_201404290579	Cadmium Total ICAP/MS	ND	20	22.2	ug/L	111	(70-130)	20	6.0
MSD2_201404290286	Cadmium Total ICAP/MS	ND	20	22.6	ug/L	113	(70-130)	20	5.2
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)	20	1.9
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.05	ug/L	105	(50-150)		
MS_201404290579	Chromium Total ICAP/MS	ND	100	106	ug/L	105	(70-130)		
MS2_201404290286	Chromium Total ICAP/MS	1.2	100	111	ug/L	110	(70-130)		
MSD_201404290579	Chromium Total ICAP/MS	ND	100	111	ug/L	110	(70-130)	20	4.6
MSD2_201404290286	Chromium Total ICAP/MS	1.2	100	110	ug/L	109	(70-130)	20	0.91
LCS1	Cobalt Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	106	ug/L	106	(85-115)	20	0.94
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.13	ug/L	106	(50-150)		
MS_201404290579	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MS2_201404290286	Cobalt Total ICAP/MS	ND	100	108	ug/L	108	(70-130)		
MSD_201404290579	Cobalt Total ICAP/MS	ND	100	108	ug/L	107	(70-130)	20	5.7
MSD2_201404290286	Cobalt Total ICAP/MS	ND	100	108	ug/L	108	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	99.6	ug/L	100	(85-115)		
LCS2	Copper Total ICAP/MS		100	100	ug/L	100	(85-115)	20	0.40
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201404290579	Copper Total ICAP/MS	ND	100	91.1	ug/L	91	(70-130)		
MS2_201404290286	Copper Total ICAP/MS	ND	100	103	ug/L	101	(70-130)		
MSD_201404290579	Copper Total ICAP/MS	ND	100	94.5	ug/L	94	(70-130)	20	3.7
MSD2_201404290286	Copper Total ICAP/MS	ND	100	101	ug/L	99	(70-130)	20	2.0
LCS1	Lead Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.3	ug/L	102	(85-115)	20	0.49

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.518	ug/L	104	(50-150)		
MS_201404290579	Lead Total ICAP/MS	ND	20	19.2	ug/L	96	(70-130)		
MS2_201404290286	Lead Total ICAP/MS	ND	20	22.2	ug/L	109	(70-130)		
MSD_201404290579	Lead Total ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	4.1
MSD2_201404290286	Lead Total ICAP/MS	ND	20	21.4	ug/L	106	(70-130)	20	3.2
LCS1	Manganese Total ICAP/MS		50	54.7	ug/L	109	(85-115)		
LCS2	Manganese Total ICAP/MS		50	54.5	ug/L	109	(85-115)	20	0.37
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.16	ug/L	108	(50-150)		
MS_201404290579	Manganese Total ICAP/MS	ND	50	53.0	ug/L	105	(70-130)		
MS2_201404290286	Manganese Total ICAP/MS	ND	50	57.9	ug/L	113	(70-130)		
MSD_201404290579	Manganese Total ICAP/MS	ND	50	55.1	ug/L	110	(70-130)	20	3.9
MSD2_201404290286	Manganese Total ICAP/MS	ND	50	58.5	ug/L	115	(70-130)	20	1.0
LCS1	Nickel Total ICAP/MS		50	49.5	ug/L	99	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.2	ug/L	100	(85-115)	20	1.4
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.12	ug/L	102	(50-150)		
MS_201404290579	Nickel Total ICAP/MS	ND	50	48.2	ug/L	92	(70-130)		
MS2_201404290286	Nickel Total ICAP/MS	ND	50	50.2	ug/L	100	(70-130)		
MSD_201404290579	Nickel Total ICAP/MS	ND	50	49.5	ug/L	95	(70-130)	20	2.7
MSD2_201404290286	Nickel Total ICAP/MS	ND	50	49.6	ug/L	99	(70-130)	20	1.2
LCS1	Selenium Total ICAP/MS		20	20.5	ug/L	103	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	0.97
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.59	ug/L	112	(50-150)		
MS_201404290579	Selenium Total ICAP/MS	ND	20	30.2	ug/L	**141**	(70-130)		
MS2_201404290286	Selenium Total ICAP/MS	ND	20	28.2	ug/L	**137**	(70-130)		
MSD_201404290579	Selenium Total ICAP/MS	ND	20	32.1	ug/L	**151**	(70-130)	20	6.1
MSD2_201404290286	Selenium Total ICAP/MS	ND	20	26.2	ug/L	127	(70-130)	20	7.7
LCS1	Thallium Total ICAP/MS		20	20.1	ug/L	101	(85-115)		
LCS2	Thallium Total ICAP/MS		20	20.1	ug/L	101	(85-115)	20	0.0
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.04	ug/L	103	(50-150)		
MS_201404290579	Thallium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)		
MS2_201404290286	Thallium Total ICAP/MS	ND	20	21.7	ug/L	108	(70-130)		
MSD_201404290579	Thallium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	3.5
MSD2_201404290286	Thallium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	4.2

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Uranium ICAP/MS		20	18.6	ug/L	93	(85-115)		
LCS2	Uranium ICAP/MS		20	18.7	ug/L	93	(85-115)	20	0.54
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	0.972	ug/L	97	(50-150)		
MS_201404290579	Uranium ICAP/MS	16	20	37.4	ug/L	109	(70-130)		
MS2_201404290286	Uranium ICAP/MS	ND	20	21.4	ug/L	106	(70-130)		
MSD_201404290579	Uranium ICAP/MS	16	20	39.1	ug/L	118	(70-130)	20	4.4
MSD2_201404290286	Uranium ICAP/MS	ND	20	20.8	ug/L	103	(70-130)	20	2.8
LCS1	Zinc Total ICAP/MS		100	104	ug/L	103	(85-115)		
LCS2	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)	20	0.0
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.5	ug/L	108	(50-150)		
MS_201404290579	Zinc Total ICAP/MS	ND	100	105	ug/L	105	(70-130)		
MS2_201404290286	Zinc Total ICAP/MS	24	100	145	ug/L	121	(70-130)		
MSD_201404290579	Zinc Total ICAP/MS	ND	100	110	ug/L	110	(70-130)	20	4.7
MSD2_201404290286	Zinc Total ICAP/MS	24	100	141	ug/L	117	(70-130)	20	2.8
QC Ref# 767663 - Hexavalent chromium(Dissolved) by EPA 218.6						**Analysis Date: 05/05/2014**			
LCS1	Hexavalent chromium(Dissolved)		2.0	1.94	ug/L	97	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	1.95	ug/L	98	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.020	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.02	0.0184	ug/L	92	(50-150)		
MS_201405020222	Hexavalent chromium(Dissolved)	6.5	2.0	8.52	ug/L	99	(90-110)		
MSD_201405020222	Hexavalent chromium(Dissolved)	6.5	2.0	8.53	ug/L	100	(90-110)	20	0.12
QC Ref# 767681 - Orthophosphate as P (OPO4) by 4500P-E/365.1						**Analysis Date: 05/06/2014**			
LCS1	Orthophosphate as P		0.25	0.244	mg/L	98	(90-110)		
LCS2	Orthophosphate as P		0.25	0.243	mg/L	97	(90-110)	20	0.41
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.0100	mg/L	100	(50-150)		
MS_201405020315	Orthophosphate as P	ND	0.5	0.514	mg/L	103	(90-110)		
MSD_201405020315	Orthophosphate as P	ND	0.5	0.494	mg/L	99	(90-110)	20	4.0
QC Ref# 767682 - Surfactants by SM 5540C/EPA 425.1						**Analysis Date: 05/06/2014**			
LCS1	Surfactants		0.2	0.183	mg/L	91	(90-110)		
LCS2	Surfactants		0.2	0.206	mg/L	103	(90-110)	20	12
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0633	mg/L	127	(50-150)		
MS_201405050173	Surfactants	ND	0.2	0.213	mg/L	99	(80-120)		
MSD_201405050173	Surfactants	ND	0.2	0.226	mg/L	105	(80-120)	20	5.9

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 767699 - Aldicarbs by EPA 531.2						**Analysis Date: 05/06/2014**			
CCCH	3-Hydroxycarbofuran		25	25.7	ug/L	103	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.5	ug/L	105	(70-130)		
LCS2	3-Hydroxycarbofuran			5.64	ug/L				
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.666	ug/L	133	(50-150)		
MS1_201405050183	3-Hydroxycarbofuran	ND	5.0	5.46	ug/L	109	(70-130)		
MSD1_201405050183	3-Hydroxycarbofuran	ND	5.0	4.82	ug/L	97	(70-130)	20	13
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		123	%	123	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		108	%	108	(70-130)		
LCS2	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		97.0	%	97	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		110	%	110	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		95.0	%	95	(70-130)		
MS1_201405050183	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		113	%	113	(70-130)		
MSD1_201405050183	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		115	%	115	(70-130)		
CCCH	Aldicarb (Temik)		25	23.7	ug/L	95	(70-130)		
CCCM	Aldicarb (Temik)		10	9.64	ug/L	96	(70-130)		
LCS2	Aldicarb (Temik)			4.72	ug/L				
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.502	ug/L	100	(50-150)		
MS1_201405050183	Aldicarb (Temik)	ND	5.0	4.98	ug/L	100	(70-130)		
MSD1_201405050183	Aldicarb (Temik)	ND	5.0	5.15	ug/L	103	(70-130)	20	3.2
CCCH	Aldicarb sulfone		25	25.6	ug/L	103	(70-130)		
CCCM	Aldicarb sulfone		10	10.2	ug/L	102	(70-130)		
LCS2	Aldicarb sulfone			5.63	ug/L				
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.710	ug/L	142	(50-150)		
MS1_201405050183	Aldicarb sulfone	ND	5.0	4.95	ug/L	99	(70-130)		
MSD1_201405050183	Aldicarb sulfone	ND	5.0	5.40	ug/L	108	(70-130)	20	8.7
CCCH	Aldicarb sulfoxide		25	26.1	ug/L	104	(70-130)		
CCCM	Aldicarb sulfoxide		10	10.6	ug/L	106	(70-130)		
LCS2	Aldicarb sulfoxide			5.87	ug/L				
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.720	ug/L	144	(50-150)		
MS1_201405050183	Aldicarb sulfoxide	ND	5.0	5.56	ug/L	111	(70-130)		
MSD1_201405050183	Aldicarb sulfoxide	ND	5.0	5.60	ug/L	112	(70-130)	20	0.72
CCCH	Baygon		25	24.9	ug/L	100	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Baygon		10	10.5	ug/L	105	(70-130)		
LCS2	Baygon			5.30	ug/L				
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.638	ug/L	128	(50-150)		
MS1_201405050183	Baygon	ND	5.0	5.26	ug/L	105	(70-130)		
MSD1_201405050183	Baygon	ND	5.0	5.24	ug/L	105	(70-130)	20	0.38
CCCH	Carbaryl		25	25.8	ug/L	103	(70-130)		
CCCM	Carbaryl		10	9.97	ug/L	100	(70-130)		
LCS2	Carbaryl			5.64	ug/L				
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.684	ug/L	137	(50-150)		
MS1_201405050183	Carbaryl	ND	5.0	4.90	ug/L	98	(70-130)		
MSD1_201405050183	Carbaryl	ND	5.0	5.09	ug/L	102	(70-130)	20	3.8
CCCH	Carbofuran (Furadan)		25	25.6	ug/L	103	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.6	ug/L	107	(70-130)		
LCS2	Carbofuran (Furadan)			5.01	ug/L				
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.652	ug/L	130	(50-150)		
MS1_201405050183	Carbofuran (Furadan)	ND	5.0	5.18	ug/L	104	(70-130)		
MSD1_201405050183	Carbofuran (Furadan)	ND	5.0	4.77	ug/L	95	(70-130)	20	8.2
CCCH	Methiocarb		25	25.8	ug/L	103	(70-130)		
CCCM	Methiocarb		10	10.1	ug/L	101	(70-130)		
LCS2	Methiocarb			5.37	ug/L				
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.579	ug/L	116	(50-150)		
MS1_201405050183	Methiocarb	ND	5.0	5.31	ug/L	106	(70-130)		
MSD1_201405050183	Methiocarb	ND	5.0	5.22	ug/L	104	(70-130)	20	1.7
CCCH	Methomyl		25	25.4	ug/L	102	(70-130)		
CCCM	Methomyl		10	10.3	ug/L	103	(70-130)		
LCS2	Methomyl			4.98	ug/L				
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.573	ug/L	115	(50-150)		
MS1_201405050183	Methomyl	ND	5.0	4.67	ug/L	93	(70-130)		
MSD1_201405050183	Methomyl	ND	5.0	4.97	ug/L	99	(70-130)	20	6.2
CCCH	Oxamyl (Vydate)		25	26.1	ug/L	104	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.36	ug/L	94	(70-130)		
LCS2	Oxamyl (Vydate)			4.74	ug/L				
MBLK	Oxamyl (Vydate)			<0.16	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Oxamyl (Vydate)		0.5	0.694	ug/L	139	(50-150)		
MS1_201405050183	Oxamyl (Vydate)	ND	5.0	5.02	ug/L	100	(70-130)		
MSD1_201405050183	Oxamyl (Vydate)	ND	5.0	5.26	ug/L	105	(70-130)	20	4.7
QC Ref# 767709 - Cyanide by SM4500CN-F						**Analysis Date: 05/06/2014**			
LCS1	Cyanide		0.1	0.105	mg/L	105	(90-110)		
LCS2	Cyanide		0.1	0.103	mg/L	103	(90-110)	20	1.9
MBLK	Cyanide			<0.025	mg/L				
MRL_CHK	Cyanide		0.025	0.0249	mg/L	100	(50-150)		
MS_201405010683	Cyanide	ND	0.1	0.106	mg/L	99	(80-120)		
MS_201405020315	Cyanide	ND	0.1	0.106	mg/L	97	(80-120)		
MSD_201405010683	Cyanide	ND	0.1	0.104	mg/L	97	(80-120)	20	1.9
QC Ref# 767735 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						**Analysis Date: 05/05/2014**			
LCS1	Nitrate as Nitrogen by IC		2.5	2.36	mg/L	94	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.36	mg/L	95	(90-110)	20	0.0
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0460	mg/L	92	(50-150)		
MS_201405050017	Nitrate as Nitrogen by IC	0.64	1.3	1.85	mg/L	97	(80-120)		
MS_201405050027	Nitrate as Nitrogen by IC	ND	1.3	1.22	mg/L	97	(80-120)		
MSD_201405050027	Nitrate as Nitrogen by IC	ND	1.3	1.23	mg/L	98	(80-120)	20	0.82
MSD_201405050017	Nitrate as Nitrogen by IC	0.64	1.3	1.86	mg/L	98	(80-120)	20	0.54
LCS1	Nitrite Nitrogen by IC		1.0	1.01	mg/L	101	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	1.02	mg/L	101	(90-110)	20	0.99
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0483	mg/L	97	(50-150)		
MS_201405050027	Nitrite Nitrogen by IC	ND	0.5	0.509	mg/L	102	(80-120)		
MS_201405050017	Nitrite Nitrogen by IC	ND	0.5	0.520	mg/L	104	(80-120)		
MSD_201405050027	Nitrite Nitrogen by IC	ND	0.5	0.512	mg/L	102	(80-120)	20	0.78
MSD_201405050017	Nitrite Nitrogen by IC	ND	0.5	0.521	mg/L	104	(80-120)	20	0.0
QC Ref# 767740 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						**Analysis Date: 05/05/2014**			
LCS1	Chloride		25	25.0	mg/L	100	(90-110)		
LCS2	Chloride		25	25.1	mg/L	100	(90-110)	20	0.40
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.398	mg/L	80	(50-150)		
MS_201405050017	Chloride	1.7	13	14.4	mg/L	102	(80-120)		
MS_201405050027	Chloride	10	13	23.9	mg/L	108	(80-120)		
MSD_201405050017	Chloride	1.7	13	14.5	mg/L	103	(80-120)	20	0.69
MSD_201405050027	Chloride	10	13	24.1	mg/L	109	(80-120)	20	0.83

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Sulfate		50	48.6	mg/L	97	(90-110)		
LCS2	Sulfate		50	48.7	mg/L	97	(90-110)	20	0.21
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.896	mg/L	90	(50-150)		
MRLLW	Sulfate		0.25	0.243	mg/L	97	(50-150)		
MS_201405050027	Sulfate	ND	25	24.8	mg/L	99	(80-120)		
MS_201405050017	Sulfate	ND	25	24.7	mg/L	98	(80-120)		
MSD_201405050027	Sulfate	ND	25	25.1	mg/L	100	(80-120)	20	1.2
MSD_201405050017	Sulfate	ND	25	24.9	mg/L	99	(80-120)	20	0.81
QC Ref# 767752 - ICP Metals by EPA 200.7						**Analysis Date: 05/06/2014**			
LCS1	Calcium Total ICAP		50	51.6	mg/L	103	(85-115)		
LCS2	Calcium Total ICAP		50	51.8	mg/L	104	(85-115)	20	0.39
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.07	mg/L	107	(50-150)		
MS_201405010623	Calcium Total ICAP	11	50	59.7	mg/L	97	(70-130)		
MS2_201404300437	Calcium Total ICAP	ND	50	51.1	mg/L	102	(70-130)		
MSD_201405010623	Calcium Total ICAP	11	50	61.8	mg/L	101	(70-130)	20	3.5
MSD2_201404300437	Calcium Total ICAP	ND	50	51.6	mg/L	103	(70-130)	20	0.97
LCS1	Dissolved Silica		21	23.3	mg/L	109	(85-115)		
LCS2	Dissolved Silica		21	23.4	mg/L	109	(85-115)	20	0.43
MBLK	Dissolved Silica			<0.211	mg/L				
MRL_CHK	Dissolved Silica		0.42	0.460	mg/L	109	(50-150)		
MS_201405010623	Dissolved Silica	48	21	68.7	mg/L	98	(70-130)		
MS2_201404300437	Dissolved Silica	ND	21	23.1	mg/L	108	(70-130)		
MSD_201405010623	Dissolved Silica	48	21	71.6	mg/L	112	(70-130)	20	4.1
MSD2_201404300437	Dissolved Silica	ND	21	23.8	mg/L	111	(70-130)	20	3.0
LCS1	Iron Total ICAP		5.0	5.17	mg/L	103	(85-115)		
LCS2	Iron Total ICAP		5.0	5.20	mg/L	104	(85-115)	20	0.58
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0255	mg/L	128	(50-150)		
MS_201405010623	Iron Total ICAP	ND	5.0	4.99	mg/L	100	(70-130)		
MS2_201404300437	Iron Total ICAP	ND	5.0	5.07	mg/L	101	(70-130)		
MSD_201405010623	Iron Total ICAP	ND	5.0	5.20	mg/L	104	(70-130)	20	4.1
MSD2_201404300437	Iron Total ICAP	ND	5.0	5.21	mg/L	104	(70-130)	20	2.7
LCS1	Magnesium Total ICAP		20	21.0	mg/L	105	(85-115)		
LCS2	Magnesium Total ICAP		20	21.2	mg/L	106	(85-115)	20	0.47
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.107	mg/L	107	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 479896

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405010623	Magnesium Total ICAP	13	20	31.6	mg/L	94	(70-130)		
MS2_201404300437	Magnesium Total ICAP	0.68	20	21.6	mg/L	105	(70-130)		
MSD_201405010623	Magnesium Total ICAP	13	20	32.9	mg/L	100	(70-130)	20	4.0
MSD2_201404300437	Magnesium Total ICAP	0.68	20	21.8	mg/L	106	(70-130)	20	0.92
LCS1	Potassium Total ICAP		20	20.4	mg/L	102	(85-115)		
LCS2	Potassium Total ICAP		20	20.5	mg/L	102	(85-115)	20	0.49
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.993	mg/L	99	(50-150)		
MS_201405010623	Potassium Total ICAP	4.2	20	23.7	mg/L	98	(70-130)		
MS2_201404300437	Potassium Total ICAP	ND	20	21.1	mg/L	103	(70-130)		
MSD_201405010623	Potassium Total ICAP	4.2	20	24.6	mg/L	102	(70-130)	20	3.7
MSD2_201404300437	Potassium Total ICAP	ND	20	21.2	mg/L	103	(70-130)	20	0.47
LCS1	Sodium Total ICAP		50	52.0	mg/L	104	(85-115)		
LCS2	Sodium Total ICAP		50	51.8	mg/L	104	(85-115)	20	0.39
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.07	mg/L	107	(50-150)		
MS_201405010623	Sodium Total ICAP	48	50	93.3	mg/L	90	(70-130)		
MS2_201404300437	Sodium Total ICAP	ND	50	52.6	mg/L	104	(70-130)		
MSD_201405010623	Sodium Total ICAP	48	50	97.2	mg/L	98	(70-130)	20	4.1
MSD2_201404300437	Sodium Total ICAP	ND	50	53.2	mg/L	105	(70-130)	20	1.1
QC Ref# 767854 - Perchlorate by EPA 314.0						**Analysis Date: 05/07/2014**			
LCS1	Perchlorate		25	25.1	ug/L	100	(85-115)		
LCS2	Perchlorate		25	25.5	ug/L	102	(85-115)	15	1.6
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.09	ug/L	102	(75-125)		
MS_201404300668	Perchlorate	ND	25	25.8	ug/L	103	(80-120)		
MSD_201404300668	Perchlorate	ND	25	25.9	ug/L	103	(80-120)	15	0.39
QC Ref# 767900 - Alkalinity in CaCO3 units by SM 2320B						**Analysis Date: 05/06/2014**			
LCS1	Alkalinity in CaCO3 units		100	99.0	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	100	mg/L	100	(90-110)	20	1.0
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.44	mg/L	122	(50-150)		
MS_201405050183	Alkalinity in CaCO3 units	82	100	166	mg/L	85	(80-120)		
MS_201405010582	Alkalinity in CaCO3 units	27	100	117	mg/L	90	(80-120)		
MSD_201405050183	Alkalinity in CaCO3 units	82	100	170	mg/L	89	(80-120)	20	2.4
MSD_201405010582	Alkalinity in CaCO3 units	27	100	118	mg/L	91	(80-120)	20	0.85
QC Ref# 767914 - Specific Conductance by SM2510B						**Analysis Date: 05/06/2014**			

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
DUP_201405050183	Specific Conductance	390		391	umho/cm		(0-20)	20	0.61
DUP_201405010582	Specific Conductance	3800		3860	umho/cm		(0-20)	20	0.0
LCS1	Specific Conductance		1000	1020	umho/cm	102	(95-105)		
LCS2	Specific Conductance		1000	1020	umho/cm	102	(95-105)	20	0.0
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.5	1.60	umho/cm	110	(50-150)		
QC Ref# 767951 - Fluoride by SM 4500F-C						**Analysis Date: 05/06/2014**			
LCS1	Fluoride		1.0	1.08	mg/L	108	(81-116)		
LCS2	Fluoride		1.0	1.09	mg/L	109	(81-116)	20	0.92
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0527	mg/L	105	(50-150)		
MS_201404300566	Fluoride	0.28	1.0	1.42	mg/L	114	(73-124)		
MS_201405010488	Fluoride	0.22	1.0	1.43	mg/L	121	(73-124)		
MSD_201404300566	Fluoride	0.28	1.0	1.48	mg/L	121	(73-124)	20	4.1
MSD_201405010488	Fluoride	0.22	1.0	1.36	mg/L	114	(73-124)	20	5.0
QC Ref# 768297 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/08/2014**			
LCS1	Silver Total ICAP/MS		50	44.5	ug/L	89	(85-115)		
LCS2	Silver Total ICAP/MS		50	44.3	ug/L	89	(85-115)	20	0.45
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.443	ug/L	89	(50-150)		
MS_201404300426	Silver Total ICAP/MS		50	45.1	ug/L	90	(70-130)		
MS2_201404220581	Silver Total ICAP/MS	ND	50	42.3	ug/L	85	(70-130)		
MSD_201404300426	Silver Total ICAP/MS		50	44.2	ug/L	88	(70-130)	20	2.0
MSD2_201404220581	Silver Total ICAP/MS	ND	50	46.6	ug/L	93	(70-130)	20	9.7
QC Ref# 768421 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 05/08/2014**			
CCCH	Alachlor (Alanex)		1.0	1.04	ug/L	104	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.05	ug/L	105	(70-130)		
LCS1	Alachlor (Alanex)		1.0	1.02	ug/L	102	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.113	ug/L	113	(50-150)		
MS1_201405050031	Alachlor (Alanex)	ND	0.2	0.200	ug/L	100	(65-135)		
MS2_201405050183	Alachlor (Alanex)	ND	1.0	0.985	ug/L	99	(65-135)		
CCCH	Aldrin		0.1	0.109	ug/L	109	(70-130)		
CCCH	Aldrin		0.1	0.105	ug/L	105	(70-130)		
LCS1	Aldrin		0.1	0.107	ug/L	107	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.00980	ug/L	98	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201405050031	Aldrin	ND	0.02	0.0215	ug/L	108	(65-135)		
MS2_201405050183	Aldrin	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Chlordane		0.5	0.521	ug/L	104	(70-130)		
LCS1	Chlordane		0.5	0.502	ug/L	100	(70-130)		
MBLK	Chlordane			<0.1	ug/L				
MRL_CHK	Chlordane		0.1	0.0976	ug/L	98	(50-150)		
MS1_201405050031	Chlordane	ND	0.5	0.494	ug/L	99	(65-135)		
MS2_201405050183	Chlordane	ND	0.5	0.511	ug/L	102	(65-135)		
CCCH	Dieldrin		0.1	0.105	ug/L	105	(70-130)		
CCCH	Dieldrin		0.1	0.106	ug/L	106	(70-130)		
LCS1	Dieldrin		0.1	0.0949	ug/L	95	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.0101	ug/L	101	(50-150)		
MS1_201405050031	Dieldrin	ND	0.02	0.0204	ug/L	102	(65-135)		
MS2_201405050183	Dieldrin	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Endrin		0.1	0.0937	ug/L	94	(70-130)		
CCCH	Endrin		0.1	0.0939	ug/L	94	(70-130)		
LCS1	Endrin		0.1	0.101	ug/L	101	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0119	ug/L	119	(50-150)		
MS1_201405050031	Endrin	ND	0.02	0.0208	ug/L	104	(65-135)		
MS2_201405050183	Endrin	ND	0.1	0.0928	ug/L	93	(65-135)		
CCCH	Heptachlor		0.1	0.104	ug/L	104	(70-130)		
CCCH	Heptachlor		0.1	0.102	ug/L	102	(70-130)		
LCS1	Heptachlor		0.1	0.102	ug/L	102	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00990	ug/L	99	(50-150)		
MS1_201405050031	Heptachlor	ND	0.02	0.0203	ug/L	101	(65-135)		
MS2_201405050183	Heptachlor	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.104	ug/L	105	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.100	ug/L	100	(70-130)		
LCS1	Heptachlor Epoxide		0.1	0.101	ug/L	101	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0115	ug/L	115	(50-150)		
MS1_201405050031	Heptachlor Epoxide	ND	0.02	0.0211	ug/L	93	(65-135)		
MS2_201405050183	Heptachlor Epoxide	ND	0.1	0.0970	ug/L	97	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.103	ug/L	103	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.103	ug/L	103	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Lindane (gamma-BHC)		0.1	0.0949	ug/L	95	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0122	ug/L	122	(50-150)		
MS1_201405050031	Lindane (gamma-BHC)	ND	0.02	0.0219	ug/L	110	(65-135)		
MS2_201405050183	Lindane (gamma-BHC)	ND	0.1	0.102	ug/L	102	(65-135)		
CCCH	Methoxychlor		0.5	0.478	ug/L	96	(70-130)		
CCCH	Methoxychlor		0.5	0.477	ug/L	95	(70-130)		
LCS1	Methoxychlor		0.5	0.464	ug/L	93	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0664	ug/L	133	(50-150)		
MS1_201405050031	Methoxychlor	ND	0.1	0.0995	ug/L	84	(65-135)		
MS2_201405050183	Methoxychlor	ND	0.5	0.478	ug/L	94	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			109	%	109	(70-130)		
CCCH	Tetrachlorometaxylene (S)			119	%	119	(70-130)		
LCS1	Tetrachlorometaxylene (S)			113	%	113	(70-130)		
MBLK	Tetrachlorometaxylene (S)			103	%	103	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			111	%	111	(70-130)		
MS1_201405050031	Tetrachlorometaxylene (S)			106	%	106	(70-130)		
MS2_201405050183	Tetrachlorometaxylene (S)			115	%	115	(70-130)		
MBLK	Total PCBs			<0.08	ug/L				
CCCH	Toxaphene		2.5	2.44	ug/L	98	(70-130)		
LCS1	Toxaphene		2.5	2.64	ug/L	106	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.472	ug/L	94	(50-150)		

QC Ref# 768542 - Chlorophenoxy Herbicides by EPA 515.4 **Analysis Date: 05/13/2014**

CCCH	2,4,5-T		4.0	3.99	ug/L	100	(70-130)		
CCCM	2,4,5-T		1.0	1.03	ug/L	103	(70-130)		
LCS1	2,4,5-T		3.0	2.86	ug/L	95	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.204	ug/L	102	(50-150)		
MS1_201405050183	2,4,5-T	ND	3.0	3.35	ug/L	112	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201405050183	2,4,5-T	ND	3.0	3.47	ug/L	116	(70-130)	30	3.5
CCCH	2,4,5-TP (Silvex)		4.0	4.04	ug/L	101	(70-130)		
CCCM	2,4,5-TP (Silvex)		1.0	1.04	ug/L	104	(70-130)		
LCS1	2,4,5-TP (Silvex)		3.0	2.84	ug/L	95	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.219	ug/L	109	(50-150)		
MS1_201405050183	2,4,5-TP (Silvex)	ND	3.0	3.36	ug/L	111	(70-130)		
MSD1_201405050183	2,4,5-TP (Silvex)	ND	3.0	3.48	ug/L	115	(70-130)	30	3.5
CCCH	2,4-D		2.0	2.00	ug/L	100	(70-130)		
CCCM	2,4-D		0.5	0.548	ug/L	110	(70-130)		
LCS1	2,4-D		1.5	1.45	ug/L	96	(70-130)		
MBLK	2,4-D			<0.033	ug/L				
MRL_CHK	2,4-D		0.1	0.111	ug/L	111	(50-150)		
MS1_201405050183	2,4-D	ND	1.5	1.64	ug/L	109	(70-130)		
MSD1_201405050183	2,4-D	ND	1.5	1.74	ug/L	116	(70-130)	30	5.9
CCCH	2,4-DB		40	41.0	ug/L	102	(70-130)		
CCCM	2,4-DB		10	10.3	ug/L	103	(70-130)		
LCS1	2,4-DB		30	27.8	ug/L	93	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2.0	2.05	ug/L	103	(50-150)		
MS1_201405050183	2,4-DB	ND	30	34.4	ug/L	115	(70-130)		
MSD1_201405050183	2,4-DB	ND	30	35.7	ug/L	119	(70-130)	30	3.7
CCCH	2,4-Dichlorophenyl acetic acid (S)			98.5	%	98	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			103	%	103	(70-130)		
LCS1	2,4-Dichlorophenyl acetic acid (S)			91.1	%	91	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			95.6	%	96	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			100	%	100	(70-130)		
MS1_201405050183	2,4-Dichlorophenyl acetic acid (S)			119	%	119	(70-130)		
MSD1_201405050183	2,4-Dichlorophenyl acetic acid (S)			124	%	124	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	10.0	ug/L	100	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.46	ug/L	99	(70-130)		
LCS1	3,5-Dichlorobenzoic acid		7.5	7.19	ug/L	96	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.429	ug/L	86	(50-150)		
MS1_201405050183	3,5-Dichlorobenzoic acid	ND	7.5	8.04	ug/L	107	(70-130)		
MSD1_201405050183	3,5-Dichlorobenzoic acid	ND	7.5	8.30	ug/L	111	(70-130)	30	3.2
CCCH	4,4-Dibromooctafluorobiphenyl (I)			99.2	%	99	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			97.8	%	98	(50-150)		

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Laboratory QC
Report: 479896

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	4,4-Dibromooctafluorobiphenyl (I)			100	%	101	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			111	%	111	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			100	%	100	(50-150)		
MS1_201405050183	4,4-Dibromooctafluorobiphenyl (I)			85.0	%	85	(50-150)		
MSD1_201405050183	4,4-Dibromooctafluorobiphenyl (I)			82.4	%	82	(50-150)		
CCCH	Acifluorfen		4.0	4.21	ug/L	105	(70-130)		
CCCM	Acifluorfen		1.0	1.07	ug/L	107	(70-130)		
LCS1	Acifluorfen		3.0	2.74	ug/L	91	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.209	ug/L	104	(50-150)		
MS1_201405050183	Acifluorfen	ND	3.0	3.59	ug/L	120	(70-130)		
MSD1_201405050183	Acifluorfen	ND	3.0	3.70	ug/L	123	(70-130)	30	3.0
CCCH	Bentazon		10	10.1	ug/L	101	(70-130)		
CCCM	Bentazon		2.5	2.63	ug/L	105	(70-130)		
LCS1	Bentazon		7.5	6.61	ug/L	88	(70-130)		
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.337	ug/L	67	(50-150)		
MS1_201405050183	Bentazon	ND	7.5	8.99	ug/L	120	(70-130)		
MSD1_201405050183	Bentazon	ND	7.5	9.32	ug/L	124	(70-130)	30	3.6
CCCH	Dalapon		20	20.9	ug/L	105	(70-130)		
CCCM	Dalapon		5.0	5.49	ug/L	110	(70-130)		
LCS1	Dalapon		15	14.3	ug/L	95	(70-130)		
MBLK	Dalapon			<0.333	ug/L				
MRL_CHK	Dalapon		1.0	1.04	ug/L	104	(50-150)		
MS1_201405050183	Dalapon	ND	15	19.2	ug/L	128	(70-130)		
MSD1_201405050183	Dalapon	ND	15	19.2	ug/L	128	(70-130)	30	0.0
CCCH	Dicamba		2.0	1.96	ug/L	98	(70-130)		
CCCM	Dicamba		0.5	0.460	ug/L	92	(70-130)		
LCS1	Dicamba		1.5	1.56	ug/L	104	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.0741	ug/L	74	(50-150)		
MS1_201405050183	Dicamba	ND	1.5	1.74	ug/L	116	(70-130)		
MSD1_201405050183	Dicamba	ND	1.5	1.78	ug/L	118	(70-130)	30	2.3
CCCH	Dichlorprop		10	9.91	ug/L	99	(70-130)		
CCCM	Dichlorprop		2.5	2.54	ug/L	102	(70-130)		
LCS1	Dichlorprop		7.5	7.47	ug/L	100	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.436	ug/L	87	(50-150)		

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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201405050183	Dichlorprop	ND	7.5	8.75	ug/L	117	(70-130)		
MSD1_201405050183	Dichlorprop	ND	7.5	9.00	ug/L	120	(70-130)	30	2.8
CCCH	Dinoseb		4.0	4.06	ug/L	102	(70-130)		
CCCM	Dinoseb		1.0	1.03	ug/L	103	(70-130)		
LCS1	Dinoseb		3.0	2.73	ug/L	91	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.191	ug/L	96	(50-150)		
MS1_201405050183	Dinoseb	ND	3.0	3.34	ug/L	111	(70-130)		
MSD1_201405050183	Dinoseb	ND	3.0	3.42	ug/L	114	(70-130)	30	2.4
CCCH	Pentachlorophenol		0.8	0.824	ug/L	103	(70-130)		
CCCM	Pentachlorophenol		0.2	0.204	ug/L	102	(70-130)		
LCS1	Pentachlorophenol		0.6	0.599	ug/L	100	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0455	ug/L	114	(50-150)		
MS1_201405050183	Pentachlorophenol	ND	0.6	0.674	ug/L	112	(70-130)		
MSD1_201405050183	Pentachlorophenol	ND	0.6	0.698	ug/L	116	(70-130)	30	3.5
CCCH	Picloram		2.0	2.01	ug/L	100	(70-130)		
CCCM	Picloram		0.5	0.499	ug/L	100	(70-130)		
LCS1	Picloram		1.5	1.40	ug/L	93	(70-130)		
MBLK	Picloram			<0.033	ug/L				
MRL_CHK	Picloram		0.1	0.0906	ug/L	91	(50-150)		
MS1_201405050183	Picloram	ND	1.5	1.70	ug/L	112	(70-130)		
MSD1_201405050183	Picloram	ND	1.5	1.72	ug/L	113	(70-130)	30	1.2
CCCH	Tot DCPA Mono&Diacid Degradate		2.0	2.12	ug/L	106	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.527	ug/L	105	(70-130)		
LCS1	Tot DCPA Mono&Diacid Degradate		1.5	1.77	ug/L	118	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.113	ug/L	113	(50-150)		
MS1_201405050183	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.66	ug/L	111	(70-130)		
MSD1_201405050183	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.75	ug/L	117	(70-130)	30	5.3
QC Ref# 768661 - Total Dissolved Solids (TDS) by E160.1/SM2540C							**Analysis Date: 05/09/2014**		
DUP_201405030063	Total Dissolved Solid (TDS)	1200		1180	mg/L		(0.000-20)	20	1.2
DUP_201405050100	Total Dissolved Solid (TDS)	720		718	mg/L		(0.000-20)		
LCS1	Total Dissolved Solid (TDS)		175	166	mg/L	95	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	676	mg/L	97	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 768827 - EDB/DBCP/HAN by EPA 551.1 by EPA 551.1						**Analysis Date: 05/09/2014**			
CCC3	1,2-Dibromopropane (S)			102	%	102	(80-120)		
CCCM2	1,2-Dibromopropane (S)			102	%	102	(80-120)		
DUP1_201405070499	1,2-Dibromopropane (S)			103	%	103	(80-120)		
DUP2_201405050017	1,2-Dibromopropane (S)			90.2	%	90	(80-120)		
LCS2	1,2-Dibromopropane (S)			99.4	%	99	(80-120)		
MBLK	1,2-Dibromopropane (S)			107	%	107	(80-120)		
MRL_CHK	1,2-Dibromopropane (S)			104	%	104	(80-120)		
MS_201405050022	1,2-Dibromopropane (S)			99.4	%	99	(80-120)		
MS2_201405050183	1,2-Dibromopropane (S)			99.0	%	99	(80-120)		
CCC3	Dibromochloropropane (DBCP)		0.25	0.247	ug/L	99	(80-120)		
CCCM2	Dibromochloropropane (DBCP)		0.05	0.0570	ug/L	114	(80-120)		
DUP1_201405070499	Dibromochloropropane (DBCP)	0.19		0.198	ug/L		(0.000-20)	20	4.0
DUP2_201405050017	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0.000-20)		
LCS2	Dibromochloropropane (DBCP)		0.25	0.249	ug/L	100	(80-120)		
MBLK	Dibromochloropropane (DBCP)			<0.01	ug/L				
MRL_CHK	Dibromochloropropane (DBCP)		0.01	0.0114	ug/L	114	(50-150)		
MS_201405050022	Dibromochloropropane (DBCP)	ND	0.25	0.251	ug/L	100	(80-120)		
MS2_201405050183	Dibromochloropropane (DBCP)	ND	0.05	0.0558	ug/L	112	(80-120)		
CCC3	Ethylene Dibromide (EDB)		0.25	0.245	ug/L	98	(80-120)		
CCCM2	Ethylene Dibromide (EDB)		0.05	0.0472	ug/L	94	(80-120)		
DUP1_201405070499	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
DUP2_201405050017	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
LCS2	Ethylene Dibromide (EDB)		0.25	0.243	ug/L	97	(80-120)		
MBLK	Ethylene Dibromide (EDB)			<0.01	ug/L				
MRL_CHK	Ethylene Dibromide (EDB)		0.01	0.00960	ug/L	96	(50-150)		
MS_201405050022	Ethylene Dibromide (EDB)	ND	0.25	0.246	ug/L	98	(80-120)		
MS2_201405050183	Ethylene Dibromide (EDB)	ND	0.05	0.0474	ug/L	95	(80-120)		
QC Ref# 768834 - Diquat and Paraquat by EPA 549.2						**Analysis Date: 05/12/2014**			
CCCH	Diquat		10	10.3	ug/L	103	(80-120)		
CCCL	Diquat		0.4	0.394	ug/L	99	(80-120)		
CCCM	Diquat		4.0	4.04	ug/L	101	(80-120)		
LCS1	Diquat		5.0	4.39	ug/L	88	(70-130)		
LCS2	Diquat		5.0	4.43	ug/L	89	(70-130)	20	0.91
MBLK	Diquat			<0.2	ug/L				
MRL_CHK	Diquat		0.4	0.344	ug/L	86	(50-150)		
MS_201405050183	Diquat	ND	5.0	4.02	ug/L	81	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201404300449	Diquat	ND	5.0	4.38	ug/L	88	(70-130)		
MSD_201405050183	Diquat	ND	5.0	4.10	ug/L	82	(70-130)	20	2.0
CCCH	Paraquat		10	9.30	ug/L	93	(80-120)		
CCCL	Paraquat		2.0	2.14	ug/L	107	(80-120)		
CCCM	Paraquat		4.0	3.87	ug/L	97	(80-120)		
LCS1	Paraquat		5.0	4.23	ug/L	85	(70-130)		
LCS2	Paraquat		5.0	4.30	ug/L	86	(70-130)	20	1.6
MBLK	Paraquat			<1	ug/L				
MRL_CHK	Paraquat		2.0	1.77	ug/L	88	(50-150)		
MS_201405050183	Paraquat	ND	5.0	4.13	ug/L	83	(70-130)		
MS2_201404300449	Paraquat	ND	5.0	4.21	ug/L	84	(70-130)		
MSD_201405050183	Paraquat	ND	5.0	4.17	ug/L	84	(70-130)	20	0.96
QC Ref# 768979 - Endothall by EPA 548.1						**Analysis Date: 05/09/2014**			
LCS1	Endothall		25	24.2	ug/L	97	(70-130)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5.0	5.83	ug/L	117	(50-150)		
MS_201405050022	Endothall	ND	25	24.6	ug/L	98	(70-130)		
MS_2ND_201405050031	Endothall	ND	25	27.3	ug/L	109	(70-130)		
MSD_201405050022	Endothall	ND	25	25.8	ug/L	103	(70-130)	30	4.8
QC Ref# 769142 - Glyphosate by EPA 547						**Analysis Date: 05/13/2014**			
CCCH	Glyphosate		25	22.9	ug/L	92	(80-120)		
CCCM	Glyphosate		10	9.17	ug/L	92	(80-120)		
LCS1	Glyphosate		10	9.83	ug/L	98	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.51	ug/L	92	(50-150)		
MS_201405050225	Glyphosate	ND	10	9.00	ug/L	90	(70-130)		
MS2_201405020157	Glyphosate	ND	10	9.19	ug/L	92	(70-130)		
MSD_201405050225	Glyphosate	ND	10	9.87	ug/L	99	(70-130)	20	9.2
QC Ref# 769820 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 05/14/2014**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.39	ug/L	108	(70-130)	20	1.3
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	1.04	ug/L	**208**	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	6.07	ug/L	121	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	6.16	ug/L	123	(70-130)	20	1.5
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.350	ug/L	70	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.80	ug/L	96	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.76	ug/L	95	(70-130)	20	0.84
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.53	ug/L	111	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.54	ug/L	111	(70-130)	20	0.18
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloroethane		5.0	6.29	ug/L	126	(70-130)		
LCS2	1,1-Dichloroethane		5.0	6.06	ug/L	121	(70-130)	20	3.7
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	6.06	ug/L	121	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	6.01	ug/L	120	(70-130)	20	0.83
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,1-Dichloropropene		5.0	6.25	ug/L	125	(70-130)		
LCS2	1,1-Dichloropropene		5.0	6.24	ug/L	125	(70-130)	20	0.16
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.91	ug/L	118	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.77	ug/L	115	(70-130)	20	2.4
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.92	ug/L	98	(70-130)	20	2.2
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.66	ug/L	113	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.51	ug/L	110	(70-130)	20	2.7
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	6.09	ug/L	122	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.77	ug/L	115	(70-130)	20	5.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.88	ug/L	118	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.93	ug/L	119	(70-130)	20	0.85

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.78	ug/L	116	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.63	ug/L	113	(70-130)	20	2.6
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.93	ug/L	119	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.56	ug/L	111	(70-130)	20	6.4
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.70	ug/L	114	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.67	ug/L	113	(70-130)	20	0.53
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
LCS1	2,2-Dichloropropane		5.0	7.35	ug/L	**147**	(70-130)		
LCS2	2,2-Dichloropropane		5.0	7.58	ug/L	**152**	(70-130)	20	3.1
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.440	ug/L	88	(50-150)		
LCS1	2-Butanone (MEK)		50	47.1	ug/L	94	(70-130)		
LCS2	2-Butanone (MEK)		50	46.6	ug/L	93	(70-130)	20	1.1
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	6.30	ug/L	126	(50-150)		
LCS1	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			98.2	%	98	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	50.6	ug/L	101	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.1	ug/L	100	(70-130)	20	0.99
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.54	ug/L	111	(50-150)		
LCS1	Benzene		5.0	6.09	ug/L	122	(70-130)		
LCS2	Benzene		5.0	6.17	ug/L	123	(70-130)	20	1.3

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 479896

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Bromobenzene		5.0	5.30	ug/L	106	(70-130)		
LCS2	Bromobenzene		5.0	5.27	ug/L	105	(70-130)	20	0.57
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromochloromethane		5.0	6.08	ug/L	122	(70-130)		
LCS2	Bromochloromethane		5.0	5.98	ug/L	120	(70-130)	20	1.7
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Bromodichloromethane		5.0	5.39	ug/L	108	(70-130)		
LCS2	Bromodichloromethane		5.0	5.75	ug/L	115	(70-130)	20	6.5
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.400	ug/L	80	(50-150)		
LCS1	Bromoethane		5.0	6.80	ug/L	**136**	(70-130)		
LCS2	Bromoethane		5.0	6.59	ug/L	**132**	(70-130)	20	3.1
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Bromoform		5.0	4.86	ug/L	97	(70-130)		
LCS2	Bromoform		5.0	5.19	ug/L	104	(70-130)	20	6.6
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.930	ug/L	**186**	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	7.11	ug/L	**142**	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	7.06	ug/L	**141**	(70-130)	20	0.71
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Carbon disulfide		5.0	4.62	ug/L	92	(70-130)		
LCS2	Carbon disulfide		5.0	4.99	ug/L	100	(70-130)	20	7.7
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.830	ug/L	**166**	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.70	ug/L	114	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.78	ug/L	116	(70-130)	20	1.4
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.910	ug/L	**182**	(50-150)		
LCS1	Chlorobenzene		5.0	5.63	ug/L	113	(70-130)		
LCS2	Chlorobenzene		5.0	5.70	ug/L	114	(70-130)	20	1.2
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.470	ug/L	94	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chlorodibromomethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.15	ug/L	103	(70-130)	20	2.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	1.01	ug/L	**202**	(50-150)		
LCS1	Chloroethane		5.0	7.41	ug/L	**148**	(70-130)		
LCS2	Chloroethane		5.0	7.08	ug/L	**142**	(70-130)	20	4.5
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	6.17	ug/L	123	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	6.06	ug/L	121	(70-130)	20	1.8
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	7.43	ug/L	**149**	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	7.26	ug/L	**145**	(70-130)	20	2.3
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.370	ug/L	74	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.96	ug/L	119	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	6.11	ug/L	122	(70-130)	20	2.5
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.39	ug/L	108	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.39	ug/L	108	(70-130)	20	0.0
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.950	ug/L	**190**	(50-150)		
LCS1	Dibromomethane		5.0	5.69	ug/L	114	(70-130)		
LCS2	Dibromomethane		5.0	5.78	ug/L	116	(70-130)	20	1.6
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	8.98	ug/L	**180**	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	8.85	ug/L	**177**	(70-130)	20	1.5
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Dichloromethane		5.0	6.26	ug/L	125	(70-130)		
LCS2	Dichloromethane		5.0	6.18	ug/L	124	(70-130)	20	1.3
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Di-isopropyl ether		5.0	6.63	ug/L	**133**	(70-130)		
LCS2	Di-isopropyl ether		5.0	6.53	ug/L	**131**	(70-130)	20	1.5

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.480	ug/L	96	(50-150)		
LCS1	Ethyl benzene		5.0	5.81	ug/L	116	(70-130)		
LCS2	Ethyl benzene		5.0	5.88	ug/L	118	(70-130)	20	1.2
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Hexachlorobutadiene		5.0	6.21	ug/L	124	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.92	ug/L	118	(70-130)	20	4.8
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Isopropylbenzene		5.0	5.74	ug/L	115	(70-130)		
LCS2	Isopropylbenzene		5.0	5.66	ug/L	113	(70-130)	20	1.4
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	m,p-Xylenes		10	12.4	ug/L	123	(70-130)		
LCS2	m,p-Xylenes		10	12.2	ug/L	122	(70-130)	20	1.6
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.900	ug/L	90	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.550	ug/L	110	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.76	ug/L	115	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.71	ug/L	114	(70-130)	20	0.87
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	6.34	ug/L	127	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	6.19	ug/L	124	(70-130)	20	2.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Naphthalene		5.0	5.12	ug/L	102	(70-130)		
LCS2	Naphthalene		5.0	5.07	ug/L	101	(70-130)	20	0.98
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.470	ug/L	94	(50-150)		
LCS1	n-Butylbenzene		5.0	6.26	ug/L	125	(70-130)		
LCS2	n-Butylbenzene		5.0	6.10	ug/L	122	(70-130)	20	2.6
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Propylbenzene		5.0	6.05	ug/L	121	(70-130)		
LCS2	n-Propylbenzene		5.0	5.88	ug/L	118	(70-130)	20	2.9
MBLK	n-Propylbenzene			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	n-Propylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.78	ug/L	116	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.80	ug/L	116	(70-130)	20	0.35
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.74	ug/L	115	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.71	ug/L	114	(70-130)	20	0.52
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Xylene		5.0	5.87	ug/L	117	(70-130)		
LCS2	o-Xylene		5.0	5.86	ug/L	117	(70-130)	20	0.17
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.450	ug/L	90	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.74	ug/L	115	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.64	ug/L	113	(70-130)	20	1.8
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.92	ug/L	118	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.78	ug/L	116	(70-130)	20	2.4
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Isopropyltoluene		5.0	6.08	ug/L	122	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.95	ug/L	119	(70-130)	20	2.2
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.420	ug/L	84	(50-150)		
LCS1	sec-Butylbenzene		5.0	6.01	ug/L	120	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.80	ug/L	116	(70-130)	20	3.6
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Styrene		5.0	6.01	ug/L	120	(70-130)		
LCS2	Styrene		5.0	5.79	ug/L	116	(70-130)	20	3.7
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.470	ug/L	94	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	6.18	ug/L	124	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	6.18	ug/L	124	(70-130)	20	0.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.410	ug/L	82	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	6.27	ug/L	125	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	tert-Butyl Ethyl Ether		5.0	6.35	ug/L	127	(70-130)	20	1.3
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.410	ug/L	82	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.73	ug/L	115	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.61	ug/L	112	(70-130)	20	2.1
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	6.18	ug/L	124	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	6.35	ug/L	127	(70-130)	20	2.7
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.410	ug/L	82	(50-150)		
LCS1	Toluene		5.0	5.90	ug/L	118	(70-130)		
LCS2	Toluene		5.0	5.85	ug/L	117	(70-130)	20	0.85
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Toluene-d8 (S)			102	%	102	(70-130)		
LCS2	Toluene-d8 (S)			101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			99.4	%	99	(70-130)		
MRL_CHK	Toluene-d8 (S)			99.2	%	99	(70-130)		
MRLLW	Toluene-d8 (S)			98.6	%	99	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	6.27	ug/L	125	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	6.09	ug/L	122	(70-130)	20	2.9
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.410	ug/L	82	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.43	ug/L	109	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.44	ug/L	109	(70-130)	20	0.18
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	1.03	ug/L	**206**	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	5.89	ug/L	118	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.77	ug/L	115	(70-130)	20	2.1
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.430	ug/L	86	(50-150)		
LCS1	Trichlorofluoromethane		5.0	7.46	ug/L	**149**	(70-130)		
LCS2	Trichlorofluoromethane		5.0	7.17	ug/L	**143**	(70-130)	20	4.0
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.350	ug/L	70	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	7.76	ug/L	**155**	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	7.87	ug/L	**157**	(70-130)	20	1.4

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Laboratory QC
Report: 479896

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.320	ug/L	64	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	7.13	ug/L	**143**	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	6.91	ug/L	**138**	(70-130)	20	3.1
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.340	ug/L	68	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.310	ug/L	124	(50-150)		
QC Ref# 769996 - Mercury Total by EPA 245.1						**Analysis Date: 05/14/2014**			
LCS1	Mercury		1.5	1.69	ug/L	113	(85-115)		
LCS2	Mercury		1.5	1.69	ug/L	113	(85-115)	20	0.0
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.229	ug/L	115	(50-150)		
MS_201405050097	Mercury	ND	1.5	1.65	ug/L	109	(70-130)		
MS_201405090695	Mercury	ND	1.5	1.66	ug/L	111	(70-130)		
MSD_201405090695	Mercury	ND	1.5	1.62	ug/L	108	(70-130)	20	3.0
MSD_201405050097	Mercury	ND	1.5	1.67	ug/L	110	(70-130)	20	1.2
QC Ref# 770160 - 2,3,7,8-TCDD_Dioxin by EPA 1613B						**Analysis Date: 05/15/2014**			
LCS1	2,3,7,8-TCDD		200	170	pg/L	85	(73-146)		
LCS2	2,3,7,8-TCDD		200	166	pg/L	83	(73-146)	20	2.4
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5.0	6.00	pg/L	120	(50-150)		
MS_201405030023	2,3,7,8-TCDD	ND	200	182	pg/L	91	(73-146)		
MS_201405010514	2,3,7,8-TCDD	ND	200	170	pg/L	85	(73-146)		
LCS1	C12-2,3,7,8-TCDD (S)			77.0	%	77	(25-141)		
LCS2	C12-2,3,7,8-TCDD (S)			79.1	%	79	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			79.2	%	79	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)			79.1	%	79	(31-137)		
MS_201405030023	C12-2,3,7,8-TCDD (S)			82.4	%	82	(25-141)		
MS_201405010514	C12-2,3,7,8-TCDD (S)			74.8	%	75	(25-141)		
QC Ref# 770872 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 05/20/2014**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			102	%	102	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			103	%	103	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			98.0	%	98	(70-130)		
LCS1	2,4-Dinitrotoluene		2.0	1.96	ug/L	98	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	2.03	ug/L	102	(70-130)	20	3.5
MRL_CHK	2,4-Dinitrotoluene		0.1	0.118	ug/L	118	(50-150)		
LCS1	2,6-Dinitrotoluene		2.0	1.95	ug/L	98	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	2,6-Dinitrotoluene		2.0	2.00	ug/L	100	(70-130)	20	2.5
MRL_CHK	2,6-Dinitrotoluene		0.1	0.126	ug/L	126	(50-150)		
LCS1	4,4-DDD		2.0	2.11	ug/L	105	(70-130)		
LCS2	4,4-DDD		2.0	2.09	ug/L	105	(70-130)	20	0.95
MRL_CHK	4,4-DDD		0.1	0.0960	ug/L	96	(50-150)		
LCS1	4,4-DDE		2.0	1.88	ug/L	94	(70-130)		
LCS2	4,4-DDE		2.0	1.91	ug/L	96	(70-130)	20	1.6
MRL_CHK	4,4-DDE		0.1	0.0860	ug/L	86	(50-150)		
LCS1	4,4-DDT		2.0	1.93	ug/L	97	(70-130)		
LCS2	4,4-DDT		2.0	2.00	ug/L	100	(70-130)	20	3.6
MRL_CHK	4,4-DDT		0.1	0.107	ug/L	107	(50-150)		
LCS1	Acenaphthene		2.0	1.97	ug/L	99	(70-130)		
LCS2	Acenaphthene		2.0	2.00	ug/L	100	(70-130)	20	2.0
MRL_CHK	Acenaphthene		0.1	0.0960	ug/L	96	(50-150)		
LCS1	Acenaphthene-d10 (I)			104	%	104	(50-150)		
LCS2	Acenaphthene-d10 (I)			143	%	143	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			108	%	108	(50-150)		
LCS1	Acenaphthylene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Acenaphthylene		2.0	1.92	ug/L	96	(70-130)	20	2.1
MRL_CHK	Acenaphthylene		0.1	0.0810	ug/L	81	(50-150)		
LCS1	Acetochlor		2.0	2.13	ug/L	106	(70-130)		
LCS2	Acetochlor		2.0	2.08	ug/L	104	(70-130)	20	2.4
MRL_CHK	Acetochlor		0.05	0.0640	ug/L	128	(50-150)		
LCS1	Alachlor		2.0	2.02	ug/L	101	(70-130)		
LCS2	Alachlor		2.0	2.04	ug/L	102	(70-130)	20	0.99
MRL_CHK	Alachlor		0.05	0.0570	ug/L	114	(50-150)		
LCS1	Aldrin		2.0	1.70	ug/L	85	(70-130)		
LCS2	Aldrin		2.0	1.65	ug/L	83	(70-130)	20	3.0
MRL_CHK	Aldrin		0.05	0.0450	ug/L	90	(50-150)		
LCS1	Alpha-BHC		2.0	2.19	ug/L	109	(70-130)		
LCS2	Alpha-BHC		2.0	2.22	ug/L	111	(70-130)	20	1.4
MRL_CHK	Alpha-BHC		0.1	0.118	ug/L	118	(50-150)		
LCS1	alpha-Chlordane		2.0	2.07	ug/L	104	(70-130)		
LCS2	alpha-Chlordane		2.0	1.95	ug/L	98	(70-130)	20	6.0
MRL_CHK	alpha-Chlordane		0.05	0.0320	ug/L	64	(50-150)		
LCS1	Anthracene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Anthracene		2.0	1.94	ug/L	97	(70-130)	20	1.6
MRL_CHK	Anthracene		0.02	0.0220	ug/L	110	(50-150)		

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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Atrazine		2.0	2.05	ug/L	102	(70-130)		
LCS2	Atrazine		2.0	2.16	ug/L	108	(70-130)	20	5.2
MRL_CHK	Atrazine		0.05	0.0390	ug/L	78	(50-150)		
LCS1	Benz(a)Anthracene		2.0	1.91	ug/L	95	(70-130)		
LCS2	Benz(a)Anthracene		2.0	1.98	ug/L	99	(70-130)	20	3.6
MRL_CHK	Benz(a)Anthracene		0.05	0.0580	ug/L	116	(50-150)		
LCS1	Benzo(a)pyrene		2.0	2.00	ug/L	100	(70-130)		
LCS2	Benzo(a)pyrene		2.0	2.02	ug/L	101	(70-130)	20	1
MRL_CHK	Benzo(a)pyrene		0.02	0.0190	ug/L	95	(50-150)		
LCS1	Benzo(b)Fluoranthene		2.0	2.11	ug/L	106	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	2.04	ug/L	102	(70-130)	20	3.4
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0170	ug/L	85	(50-150)		
LCS1	Benzo(g,h,i)Perylene		2.0	2.03	ug/L	101	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	2.04	ug/L	102	(70-130)	20	0.49
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0400	ug/L	80	(50-150)		
LCS1	Benzo(k)Fluoranthene		2.0	2.13	ug/L	106	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	2.27	ug/L	114	(70-130)	20	6.4
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0170	ug/L	85	(50-150)		
LCS1	Beta-BHC		2.0	2.10	ug/L	105	(70-130)		
LCS2	Beta-BHC		2.0	2.10	ug/L	105	(70-130)	20	0.0
MRL_CHK	Beta-BHC		0.1	0.106	ug/L	106	(50-150)		
LCS1	Bromacil		2.0	2.12	ug/L	106	(70-130)		
LCS2	Bromacil		2.0	2.08	ug/L	104	(70-130)	20	1.9
MRL_CHK	Bromacil		0.1	0.118	ug/L	118	(50-150)		
LCS1	Butachlor		2.0	2.09	ug/L	105	(70-130)		
LCS2	Butachlor		2.0	2.11	ug/L	105	(70-130)	20	0.95
MRL_CHK	Butachlor		0.05	0.0570	ug/L	114	(50-150)		
LCS1	Butylbenzylphthalate		2.0	2.06	ug/L	103	(70-130)		
LCS2	Butylbenzylphthalate		2.0	2.11	ug/L	105	(70-130)	20	2.4
MRL_CHK	Butylbenzylphthalate		0.15	0.155	ug/L	103	(50-150)		
LCS1	Caffeine by method 525mod		2.0	1.86	ug/L	93	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.83	ug/L	92	(45-137)	20	1.6
MRL_CHK	Caffeine by method 525mod		0.05	0.0490	ug/L	98	(50-150)		
LCS1	Chlorobenzilate		2.0	1.91	ug/L	95	(70-130)		
LCS2	Chlorobenzilate		2.0	2.16	ug/L	108	(70-130)	20	12
MRL_CHK	Chlorobenzilate		0.1	0.0940	ug/L	94	(50-150)		
LCS1	Chloroneb		2.0	2.02	ug/L	101	(70-130)		
LCS2	Chloroneb		2.0	2.06	ug/L	103	(70-130)	20	2.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloroneb		0.1	0.0970	ug/L	97	(50-150)		
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	2.20	ug/L	110	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	2.25	ug/L	113	(70-130)	20	2.3
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0500	ug/L	100	(50-150)		
LCS1	Chlorpyrifos (Dursban)		2.0	2.06	ug/L	103	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	2.05	ug/L	102	(70-130)	20	0.49
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0530	ug/L	106	(50-150)		
LCS1	Chrysene		2.0	2.01	ug/L	100	(70-130)		
LCS2	Chrysene		2.0	2.07	ug/L	104	(70-130)	20	2.9
MRL_CHK	Chrysene		0.02	0.0240	ug/L	120	(50-150)		
LCS1	Chrysene-d12 (I)			97.9	%	98	(50-150)		
LCS2	Chrysene-d12 (I)			140	%	140	(50-150)		
MRL_CHK	Chrysene-d12 (I)			104	%	104	(50-150)		
LCS1	Delta-BHC		2.0	2.14	ug/L	107	(70-130)		
LCS2	Delta-BHC		2.0	2.17	ug/L	109	(70-130)	20	1.4
MRL_CHK	Delta-BHC		0.1	0.111	ug/L	111	(50-150)		
LCS1	Di-(2-Ethylhexyl)adipate		2.0	1.90	ug/L	95	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	2.03	ug/L	102	(70-130)	20	6.1
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.266	ug/L	89	(50-150)		
LCS1	Di(2-Ethylhexyl)phthalate		2.0	1.92	ug/L	96	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	1.97	ug/L	99	(70-130)	20	2.6
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.591	ug/L	99	(50-150)		
LCS1	Diazinon (Qualitative)		2.0	1.85	ug/L	93	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.95	ug/L	98	(70-130)	20	5.3
MRL_CHK	Diazinon (Qualitative)		0.1	0.110	ug/L	110	(50-150)		
LCS1	Dibenz(a,h)Anthracene		2.0	2.14	ug/L	107	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	2.03	ug/L	102	(70-130)	20	5.3
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0540	ug/L	108	(50-150)		
LCS1	Dichlorvos (DDVP)		2.0	2.16	ug/L	108	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	2.20	ug/L	110	(70-130)	20	1.8
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0510	ug/L	102	(50-150)		
LCS1	Dieldrin		2.0	2.13	ug/L	107	(70-130)		
LCS2	Dieldrin		2.0	2.11	ug/L	105	(70-130)	20	0.94
MRL_CHK	Dieldrin		0.1	0.0840	ug/L	84	(50-150)		
LCS1	Diethylphthalate		2.0	2.13	ug/L	106	(70-130)		
LCS2	Diethylphthalate		2.0	2.11	ug/L	106	(70-130)	20	0.94
MRL_CHK	Diethylphthalate		0.15	0.160	ug/L	107	(50-150)		
LCS1	Dimethoate		2.0	1.54	ug/L	77	(35-100)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Dimethoate		2.0	1.70	ug/L	85	(35-100)	20	9.9
MRL_CHK	Dimethoate		0.1	0.0670	ug/L	67	(35-100)		
LCS1	Dimethylphthalate		2.0	2.08	ug/L	104	(70-130)		
LCS2	Dimethylphthalate		2.0	2.07	ug/L	103	(70-130)	20	0.48
MRL_CHK	Dimethylphthalate		0.3	0.301	ug/L	100	(50-150)		
LCS1	Di-n-Butylphthalate		4.0	3.98	ug/L	99	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	3.86	ug/L	96	(70-130)	20	3.1
MRL_CHK	Di-n-Butylphthalate		0.3	0.319	ug/L	106	(50-150)		
LCS1	Di-N-octylphthalate		2.0	1.76	ug/L	88	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.84	ug/L	92	(70-130)	20	4.4
MRL_CHK	Di-N-octylphthalate		0.1	0.0880	ug/L	88	(50-150)		
LCS1	Endosulfan I (Alpha)		2.0	1.99	ug/L	100	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	2.08	ug/L	104	(70-130)	20	4.4
MRL_CHK	Endosulfan I (Alpha)		0.1	0.0500	ug/L	50	(50-150)		
LCS1	Endosulfan II (Beta)		2.0	1.88	ug/L	94	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	1.92	ug/L	96	(70-130)	20	2.1
MRL_CHK	Endosulfan II (Beta)		0.1	0.138	ug/L	138	(50-150)		
LCS1	Endosulfan Sulfate		2.0	2.18	ug/L	109	(70-130)		
LCS2	Endosulfan Sulfate		2.0	2.11	ug/L	105	(70-130)	20	3.3
MRL_CHK	Endosulfan Sulfate		0.1	0.121	ug/L	121	(50-150)		
LCS1	Endrin		2.0	1.84	ug/L	92	(70-130)		
LCS2	Endrin		2.0	2.14	ug/L	107	(70-130)	20	15
MRL_CHK	Endrin		0.1	0.105	ug/L	105	(50-150)		
LCS1	Endrin Aldehyde		2.0	1.81	ug/L	91	(70-130)		
LCS2	Endrin Aldehyde		2.0	1.84	ug/L	92	(70-130)	20	1.6
MRL_CHK	Endrin Aldehyde		0.1	0.0930	ug/L	93	(50-150)		
LCS1	EPTC		2.0	2.17	ug/L	109	(70-130)		
LCS2	EPTC		2.0	2.10	ug/L	105	(70-130)	20	3.3
MRL_CHK	EPTC		0.1	0.0950	ug/L	95	(50-150)		
LCS1	Fluoranthene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Fluoranthene		2.0	1.94	ug/L	97	(70-130)	20	2.6
MRL_CHK	Fluoranthene		0.05	0.0440	ug/L	88	(50-150)		
LCS1	Fluorene		2.0	1.94	ug/L	97	(70-130)		
LCS2	Fluorene		2.0	1.98	ug/L	99	(70-130)	20	2.0
MRL_CHK	Fluorene		0.05	0.0520	ug/L	104	(50-150)		
LCS1	gamma-Chlordane		2.0	1.92	ug/L	96	(70-130)		
LCS2	gamma-Chlordane		2.0	1.95	ug/L	97	(70-130)	20	1.6
MRL_CHK	gamma-Chlordane		0.05	0.0390	ug/L	78	(50-150)		

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Laboratory QC
Report: 479896

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Heptachlor		2.0	2.15	ug/L	108	(70-130)		
LCS2	Heptachlor		2.0	2.06	ug/L	103	(70-130)	20	4.3
MRL_CHK	Heptachlor		0.04	0.0470	ug/L	118	(50-150)		
LCS1	Heptachlor Epoxide (isomer B)		2.0	2.00	ug/L	100	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2.0	2.09	ug/L	105	(70-130)	20	4.4
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0610	ug/L	122	(50-150)		
LCS1	Hexachlorobenzene		2.0	1.88	ug/L	94	(70-130)		
LCS2	Hexachlorobenzene		2.0	1.91	ug/L	95	(70-130)	20	1.1
MRL_CHK	Hexachlorobenzene		0.05	0.0550	ug/L	110	(50-150)		
LCS1	Hexachlorocyclopentadiene		2.0	2.22	ug/L	111	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	2.35	ug/L	118	(70-130)	20	5.7
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0550	ug/L	110	(50-150)		
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	2.05	ug/L	103	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	2.06	ug/L	103	(70-130)	20	0.49
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0520	ug/L	104	(50-150)		
LCS1	Isophorone		2.0	2.11	ug/L	105	(70-130)		
LCS2	Isophorone		2.0	2.09	ug/L	104	(70-130)	20	0.95
MRL_CHK	Isophorone		0.1	0.106	ug/L	106	(50-150)		
LCS1	Lindane		2.0	2.08	ug/L	104	(70-130)		
LCS2	Lindane		2.0	2.07	ug/L	103	(70-130)	20	0.48
MRL_CHK	Lindane		0.04	0.0450	ug/L	113	(50-150)		
LCS1	Malathion		2.0	2.21	ug/L	110	(70-130)		
LCS2	Malathion		2.0	2.19	ug/L	109	(70-130)	20	0.91
MRL_CHK	Malathion		0.1	0.101	ug/L	101	(50-150)		
LCS1	Methoxychlor		2.0	2.09	ug/L	104	(70-130)		
LCS2	Methoxychlor		2.0	2.14	ug/L	107	(70-130)	20	2.4
MRL_CHK	Methoxychlor		0.1	0.111	ug/L	111	(50-150)		
LCS1	Metolachlor		2.0	2.09	ug/L	105	(70-130)		
LCS2	Metolachlor		2.0	2.04	ug/L	102	(70-130)	20	2.4
MRL_CHK	Metolachlor		0.05	0.0500	ug/L	100	(50-150)		
LCS1	Metribuzin		2.0	2.03	ug/L	101	(70-130)		
LCS2	Metribuzin		2.0	2.02	ug/L	101	(70-130)	20	0.49
MRL_CHK	Metribuzin		0.05	0.0480	ug/L	96	(50-150)		
LCS1	Molinate		2.0	2.01	ug/L	101	(70-130)		
LCS2	Molinate		2.0	2.05	ug/L	103	(70-130)	20	2.0
MRL_CHK	Molinate		0.1	0.103	ug/L	103	(50-150)		
LCS1	Naphthalene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Naphthalene		2.0	1.94	ug/L	97	(70-130)	20	2.1

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Naphthalene		0.1	0.100	ug/L	100	(50-150)		
LCS1	Parathion		2.0	1.96	ug/L	98	(70-130)		
LCS2	Parathion		2.0	2.05	ug/L	102	(70-130)	20	4.5
MRL_CHK	Parathion		0.1	0.111	ug/L	111	(50-150)		
LCS1	Pendimethalin		2.0	1.93	ug/L	97	(70-130)		
LCS2	Pendimethalin		2.0	1.91	ug/L	96	(70-130)	20	1.0
MRL_CHK	Pendimethalin		0.1	0.123	ug/L	123	(50-150)		
LCS1	Pentachlorophenol		8.0	10.3	ug/L	129	(70-130)		
LCS2	Pentachlorophenol		8.0	11.3	ug/L	**141**	(70-130)	20	9.3
MRL_CHK	Pentachlorophenol		0.5	0.749	ug/L	150	(50-150)		
LCS1	Permethrin (mixed isomers)		4.0	3.76	ug/L	94	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	3.88	ug/L	97	(70-130)	20	3.4
MRL_CHK	Permethrin (mixed isomers)		0.15	0.279	ug/L	**186**	(50-150)		
LCS1	Perylene-d12 (S)			96.1	%	96	(70-130)		
LCS2	Perylene-d12 (S)			98.1	%	98	(70-130)		
MRL_CHK	Perylene-d12 (S)			88.3	%	88	(70-130)		
LCS1	Phenanthrene		2.0	1.91	ug/L	96	(70-130)		
LCS2	Phenanthrene		2.0	1.94	ug/L	97	(70-130)	20	1.6
MRL_CHK	Phenanthrene		0.02	0.0230	ug/L	115	(50-150)		
LCS1	Phenanthrene-d10 (I)			103	%	103	(50-150)		
LCS2	Phenanthrene-d10 (I)			144	%	144	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			110	%	110	(50-150)		
LCS1	Propachlor		2.0	2.03	ug/L	102	(70-130)		
LCS2	Propachlor		2.0	1.99	ug/L	100	(70-130)	20	2.0
MRL_CHK	Propachlor		0.05	0.0610	ug/L	122	(50-150)		
LCS1	Pyrene		2.0	1.98	ug/L	99	(70-130)		
LCS2	Pyrene		2.0	2.02	ug/L	101	(70-130)	20	2.0
MRL_CHK	Pyrene		0.05	0.0510	ug/L	102	(50-150)		
LCS1	Simazine		2.0	1.95	ug/L	97	(70-130)		
LCS2	Simazine		2.0	2.02	ug/L	101	(70-130)	20	3.5
MRL_CHK	Simazine		0.05	0.0500	ug/L	100	(50-150)		
LCS1	Terbacil		2.0	1.92	ug/L	96	(70-130)		
LCS2	Terbacil		2.0	2.03	ug/L	102	(70-130)	20	5.6
MRL_CHK	Terbacil		0.1	0.0930	ug/L	93	(50-150)		
LCS1	Terbuthylazine		2.0	2.12	ug/L	106	(70-130)		
LCS2	Terbuthylazine		2.0	2.18	ug/L	109	(70-130)	20	2.8
MRL_CHK	Terbuthylazine		0.1	0.0950	ug/L	95	(50-150)		
LCS1	Thiobencarb		2.0	2.04	ug/L	102	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Thiobencarb		2.0	2.07	ug/L	103	(70-130)	20	1.5
MRL_CHK	Thiobencarb		0.1	0.0900	ug/L	90	(50-150)		
LCS1	trans-Nonachlor		2.0	2.02	ug/L	101	(70-130)		
LCS2	trans-Nonachlor		2.0	2.02	ug/L	101	(70-130)	20	0.0
MRL_CHK	trans-Nonachlor		0.05	0.0530	ug/L	106	(50-150)		
LCS1	Trifluralin		2.0	2.00	ug/L	100	(70-130)		
LCS2	Trifluralin		2.0	2.07	ug/L	104	(70-130)	20	3.4
MRL_CHK	Trifluralin		0.1	0.115	ug/L	115	(50-150)		
LCS1	Triphenylphosphate (S)			104	%	104	(70-130)		
LCS2	Triphenylphosphate (S)			103	%	103	(70-130)		
MRL_CHK	Triphenylphosphate (S)			102	%	102	(70-130)		
QC Ref# 771194 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 05/20/2014**			
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			109	%	109	(70-130)		
MS_201405090637	1,3-Dimethyl-2-nitrobenzene (S)			99.8	%	100	(70-130)		
MSD_201405090637	1,3-Dimethyl-2-nitrobenzene (S)			102	%	102	(70-130)		
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MS_201405090637	2,4-Dinitrotoluene	ND	2.0	1.83	ug/L	91	(70-130)		
MSD_201405090637	2,4-Dinitrotoluene	ND	2.0	1.83	ug/L	92	(70-130)	20	0.0
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MS_201405090637	2,6-Dinitrotoluene	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405090637	2,6-Dinitrotoluene	ND	2.0	1.89	ug/L	95	(70-130)	20	1.1
MBLK	4,4-DDD			<0.05	ug/L				
MS_201405090637	4,4-DDD	ND	2.0	2.07	ug/L	104	(70-130)		
MSD_201405090637	4,4-DDD	ND	2.0	2.08	ug/L	104	(70-130)	20	0.48
MBLK	4,4-DDE			<0.05	ug/L				
MS_201405090637	4,4-DDE	ND	2.0	1.72	ug/L	86	(70-130)		
MSD_201405090637	4,4-DDE	ND	2.0	1.80	ug/L	90	(70-130)	20	4.5
MBLK	4,4-DDT			<0.05	ug/L				
MS_201405090637	4,4-DDT	ND	2.0	1.93	ug/L	97	(70-130)		
MSD_201405090637	4,4-DDT	ND	2.0	2.00	ug/L	100	(70-130)	20	3.6
MBLK	Acenaphthene			<0.05	ug/L				
MS_201405090637	Acenaphthene	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	Acenaphthene	ND	2.0	1.96	ug/L	98	(70-130)	20	3.5
MBLK	Acenaphthene-d10 (I)			104	%	104	(50-150)		
MS_201405090637	Acenaphthene-d10 (I)			101	%	101	(50-150)		
MSD_201405090637	Acenaphthene-d10 (I)			104	%	104	(50-150)		
MBLK	Acenaphthylene			<0.05	ug/L				
MS_201405090637	Acenaphthylene	ND	2.0	1.87	ug/L	94	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405090637	Acenaphthylene	ND	2.0	1.79	ug/L	89	(70-130)	20	4.4
MBLK	Acetochlor			<0.05	ug/L				
MS_201405090637	Acetochlor	ND	2.0	2.15	ug/L	108	(70-130)		
MSD_201405090637	Acetochlor	ND	2.0	2.16	ug/L	108	(70-130)	20	0.46
MBLK	Alachlor			<0.025	ug/L				
MS_201405090637	Alachlor	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405090637	Alachlor	ND	2.0	1.97	ug/L	99	(70-130)	20	6.4
MBLK	Aldrin			<0.025	ug/L				
MS_201405090637	Aldrin	ND	2.0	1.80	ug/L	90	(70-130)		
MSD_201405090637	Aldrin	ND	2.0	1.58	ug/L	79	(70-130)	20	13
MBLK	Alpha-BHC			<0.05	ug/L				
MS_201405090637	Alpha-BHC	ND	2.0	2.21	ug/L	111	(70-130)		
MSD_201405090637	Alpha-BHC	ND	2.0	2.24	ug/L	112	(70-130)	20	1.8
MBLK	alpha-Chlordane			<0.025	ug/L				
MS_201405090637	alpha-Chlordane	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	alpha-Chlordane	ND	2.0	2.06	ug/L	103	(70-130)	20	1.5
MBLK	Anthracene			<0.02	ug/L				
MS_201405090637	Anthracene	ND	2.0	1.92	ug/L	96	(70-130)		
MSD_201405090637	Anthracene	ND	2.0	1.92	ug/L	96	(70-130)	20	0.0
MBLK	Atrazine			<0.025	ug/L				
MS_201405090637	Atrazine	ND	2.0	2.06	ug/L	103	(70-130)		
MSD_201405090637	Atrazine	ND	2.0	2.04	ug/L	102	(70-130)	20	0.98
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MS_201405090637	Benz(a)Anthracene	ND	2.0	1.93	ug/L	97	(70-130)		
MSD_201405090637	Benz(a)Anthracene	ND	2.0	1.93	ug/L	96	(70-130)	20	0.0
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MS_201405090637	Benzo(a)pyrene	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405090637	Benzo(a)pyrene	ND	2.0	2.01	ug/L	100	(70-130)	20	1.5
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MS_201405090637	Benzo(b)Fluoranthene	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405090637	Benzo(b)Fluoranthene	ND	2.0	2.08	ug/L	104	(70-130)	20	0.96
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MS_201405090637	Benzo(g,h,i)Perylene	ND	2.0	2.25	ug/L	113	(70-130)		
MSD_201405090637	Benzo(g,h,i)Perylene	ND	2.0	2.12	ug/L	106	(70-130)	20	6.0
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MS_201405090637	Benzo(k)Fluoranthene	ND	2.0	2.26	ug/L	113	(70-130)		
MSD_201405090637	Benzo(k)Fluoranthene	ND	2.0	2.13	ug/L	107	(70-130)	20	5.9
MBLK	Beta-BHC			<0.05	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405090637	Beta-BHC	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Beta-BHC	ND	2.0	2.08	ug/L	104	(70-130)	20	0.48
MBLK	Bromacil			<0.05	ug/L				
MS_201405090637	Bromacil	ND	2.0	2.05	ug/L	103	(70-130)		
MSD_201405090637	Bromacil	ND	2.0	2.04	ug/L	102	(70-130)	20	0.49
MBLK	Butachlor			<0.025	ug/L				
MS_201405090637	Butachlor	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405090637	Butachlor	ND	2.0	2.09	ug/L	104	(70-130)	20	2.4
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MS_201405090637	Butylbenzylphthalate	ND	2.0	2.07	ug/L	103	(70-130)		
MSD_201405090637	Butylbenzylphthalate	ND	2.0	2.08	ug/L	104	(70-130)	20	0.96
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MS_201405090637	Caffeine by method 525mod	ND	2.0	1.56	ug/L	78	(46-144)		
MSD_201405090637	Caffeine by method 525mod	ND	2.0	1.64	ug/L	82	(46-144)	20	5.0
MBLK	Chlorobenzilate			<0.05	ug/L				
MS_201405090637	Chlorobenzilate	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405090637	Chlorobenzilate	ND	2.0	1.95	ug/L	98	(70-130)	20	2.5
MBLK	Chloroneb			<0.05	ug/L				
MS_201405090637	Chloroneb	ND	2.0	2.16	ug/L	108	(70-130)		
MSD_201405090637	Chloroneb	ND	2.0	2.00	ug/L	100	(70-130)	20	7.2
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MS_201405090637	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405090637	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.15	ug/L	107	(70-130)	20	1.4
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MS_201405090637	Chlorpyrifos (Dursban)	ND	2.0	2.09	ug/L	104	(70-130)		
MSD_201405090637	Chlorpyrifos (Dursban)	ND	2.0	2.05	ug/L	102	(70-130)	20	1.9
MBLK	Chrysene			<0.01	ug/L				
MS_201405090637	Chrysene	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	Chrysene	ND	2.0	1.98	ug/L	99	(70-130)	20	2.5
MBLK	Chrysene-d12 (I)			94.9	%	95	(50-150)		
MS_201405090637	Chrysene-d12 (I)			97.2	%	97	(50-150)		
MSD_201405090637	Chrysene-d12 (I)			102	%	103	(50-150)		
MBLK	Delta-BHC			<0.05	ug/L				
MS_201405090637	Delta-BHC	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Delta-BHC	ND	2.0	2.04	ug/L	102	(70-130)	20	1.9
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MS_201405090637	Di-(2-Ethylhexyl)adipate	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405090637	Di-(2-Ethylhexyl)adipate	ND	2.0	1.89	ug/L	95	(70-130)	20	1.1

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Laboratory QC
Report: 479896

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MS_201405090637	Di(2-Ethylhexyl)phthalate	ND	2.0	1.93	ug/L	97	(70-130)		
MSD_201405090637	Di(2-Ethylhexyl)phthalate	ND	2.0	1.96	ug/L	98	(70-130)	20	1.5
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MS_201405090637	Diazinon (Qualitative)	ND	2.0	1.60	ug/L	80	(70-130)		
MSD_201405090637	Diazinon (Qualitative)	ND	2.0	1.62	ug/L	81	(70-130)	20	1.2
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MS_201405090637	Dibenz(a,h)Anthracene	ND	2.0	2.56	ug/L	128	(70-130)		
MSD_201405090637	Dibenz(a,h)Anthracene	ND	2.0	2.42	ug/L	121	(70-130)	20	5.6
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MS_201405090637	Dichlorvos (DDVP)	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405090637	Dichlorvos (DDVP)	ND	2.0	2.16	ug/L	108	(70-130)	20	7.2
MBLK	Dieldrin			<0.05	ug/L				
MS_201405090637	Dieldrin	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Dieldrin	ND	2.0	2.17	ug/L	109	(70-130)	20	4.2
MBLK	Diethylphthalate			<0.15	ug/L				
MS_201405090637	Diethylphthalate	ND	2.0	2.13	ug/L	107	(70-130)		
MSD_201405090637	Diethylphthalate	ND	2.0	2.18	ug/L	109	(70-130)	20	2.3
MBLK	Dimethoate			<0.05	ug/L				
MS_201405090637	Dimethoate	ND	2.0	1.24	ug/L	62	(34-111)		
MSD_201405090637	Dimethoate	ND	2.0	1.33	ug/L	66	(34-111)	20	7.0
MBLK	Dimethylphthalate			<0.15	ug/L				
MS_201405090637	Dimethylphthalate	ND	2.0	2.09	ug/L	104	(70-130)		
MSD_201405090637	Dimethylphthalate	ND	2.0	2.10	ug/L	105	(70-130)	20	0.48
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MS_201405090637	Di-n-Butylphthalate	ND	4.0	3.93	ug/L	98	(70-130)		
MSD_201405090637	Di-n-Butylphthalate	ND	4.0	4.01	ug/L	100	(70-130)	20	2.0
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MS_201405090637	Di-N-octylphthalate	ND	2.0	1.72	ug/L	86	(70-130)		
MSD_201405090637	Di-N-octylphthalate	ND	2.0	1.74	ug/L	87	(70-130)	20	1.2
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MS_201405090637	Endosulfan I (Alpha)	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405090637	Endosulfan I (Alpha)	ND	2.0	2.02	ug/L	101	(70-130)	20	0.50
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MS_201405090637	Endosulfan II (Beta)	ND	2.0	2.15	ug/L	107	(70-130)		
MSD_201405090637	Endosulfan II (Beta)	ND	2.0	2.05	ug/L	103	(70-130)	20	4.8
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MS_201405090637	Endosulfan Sulfate	ND	2.0	2.17	ug/L	108	(70-130)		

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Laboratory QC
Report: 479896

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405090637	Endosulfan Sulfate	ND	2.0	2.21	ug/L	111	(70-130)	20	1.8
MBLK	Endrin			<0.05	ug/L				
MS_201405090637	Endrin	ND	2.0	1.80	ug/L	90	(70-130)		
MSD_201405090637	Endrin	ND	2.0	1.96	ug/L	98	(70-130)	20	8.5
MBLK	Endrin Aldehyde			<0.05	ug/L				
MS_201405090637	Endrin Aldehyde	ND	2.0	1.72	ug/L	86	(70-130)		
MSD_201405090637	Endrin Aldehyde	ND	2.0	1.64	ug/L	82	(70-130)	20	4.8
MBLK	EPTC			<0.05	ug/L				
MS_201405090637	EPTC	ND	2.0	2.07	ug/L	104	(70-130)		
MSD_201405090637	EPTC	ND	2.0	2.10	ug/L	105	(70-130)	20	1.4
MBLK	Fluoranthene			<0.05	ug/L				
MS_201405090637	Fluoranthene	ND	2.0	1.87	ug/L	93	(70-130)		
MSD_201405090637	Fluoranthene	ND	2.0	1.88	ug/L	94	(70-130)	20	0.53
MBLK	Fluorene			<0.05	ug/L				
MS_201405090637	Fluorene	ND	2.0	1.98	ug/L	99	(70-130)		
MSD_201405090637	Fluorene	ND	2.0	1.97	ug/L	99	(70-130)	20	0.51
MBLK	gamma-Chlordane			<0.025	ug/L				
MS_201405090637	gamma-Chlordane	ND	2.0	1.94	ug/L	97	(70-130)		
MSD_201405090637	gamma-Chlordane	ND	2.0	1.92	ug/L	96	(70-130)	20	1.0
MBLK	Heptachlor			<0.015	ug/L				
MS_201405090637	Heptachlor	ND	2.0	1.99	ug/L	99	(70-130)		
MSD_201405090637	Heptachlor	ND	2.0	2.12	ug/L	106	(70-130)	20	6.3
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MS_201405090637	Heptachlor Epoxide (isomer B)	ND	2.0	1.96	ug/L	98	(70-130)		
MSD_201405090637	Heptachlor Epoxide (isomer B)	ND	2.0	1.99	ug/L	100	(70-130)	20	1.5
MBLK	Hexachlorobenzene			<0.025	ug/L				
MS_201405090637	Hexachlorobenzene	ND	2.0	1.94	ug/L	97	(70-130)		
MSD_201405090637	Hexachlorobenzene	ND	2.0	1.92	ug/L	96	(70-130)	20	1.0
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MS_201405090637	Hexachlorocyclopentadiene	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405090637	Hexachlorocyclopentadiene	ND	2.0	2.20	ug/L	110	(70-130)	20	5.6
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				
MS_201405090637	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.56	ug/L	128	(70-130)		
MSD_201405090637	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.43	ug/L	121	(70-130)	20	5.2
MBLK	Isophorone			<0.25	ug/L				
MS_201405090637	Isophorone	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405090637	Isophorone	ND	2.0	2.07	ug/L	103	(70-130)	20	2.0
MBLK	Lindane			<0.02	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405090637	Lindane	ND	2.0	2.06	ug/L	103	(70-130)		
MSD_201405090637	Lindane	ND	2.0	1.97	ug/L	99	(70-130)	20	4.5
MBLK	Malathion			<0.05	ug/L				
MS_201405090637	Malathion	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405090637	Malathion	ND	2.0	2.19	ug/L	110	(70-130)	20	0.0
MBLK	Methoxychlor			<0.05	ug/L				
MS_201405090637	Methoxychlor	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405090637	Methoxychlor	ND	2.0	2.13	ug/L	107	(70-130)	20	0.47
MBLK	Metolachlor			<0.025	ug/L				
MS_201405090637	Metolachlor	ND	2.0	2.05	ug/L	102	(70-130)		
MSD_201405090637	Metolachlor	ND	2.0	2.02	ug/L	101	(70-130)	20	0.98
MBLK	Metribuzin			<0.05	ug/L				
MS_201405090637	Metribuzin	ND	2.0	2.02	ug/L	101	(70-130)		
MSD_201405090637	Metribuzin	ND	2.0	1.98	ug/L	99	(70-130)	20	2.0
MBLK	Molinate			<0.05	ug/L				
MS_201405090637	Molinate	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405090637	Molinate	ND	2.0	2.03	ug/L	101	(70-130)	20	4.3
MBLK	Naphthalene			<0.05	ug/L				
MS_201405090637	Naphthalene	ND	2.0	1.84	ug/L	92	(70-130)		
MSD_201405090637	Naphthalene	ND	2.0	1.89	ug/L	95	(70-130)	20	2.7
MBLK	Parathion			<0.05	ug/L				
MS_201405090637	Parathion	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405090637	Parathion	ND	2.0	1.96	ug/L	98	(70-130)	20	0.51
MBLK	Pendimethalin			<0.05	ug/L				
MS_201405090637	Pendimethalin	ND	2.0	1.85	ug/L	93	(70-130)		
MSD_201405090637	Pendimethalin	ND	2.0	1.93	ug/L	96	(70-130)	20	4.2
MBLK	Pentachlorophenol			<0.6	ug/L				
MS_201405090637	Pentachlorophenol	ND	8.0	9.97	ug/L	125	(70-130)		
MSD_201405090637	Pentachlorophenol	ND	8.0	9.50	ug/L	119	(70-130)	20	4.8
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MS_201405090637	Permethrin (mixed isomers)	ND	4.0	3.86	ug/L	97	(70-130)		
MSD_201405090637	Permethrin (mixed isomers)	ND	4.0	3.89	ug/L	97	(70-130)	20	0.77
MBLK	Perylene-d12 (S)			80.8	%	81	(70-130)		
MS_201405090637	Perylene-d12 (S)			99.0	%	99	(70-130)		
MSD_201405090637	Perylene-d12 (S)			98.7	%	99	(70-130)		
MBLK	Phenanthrene			<0.02	ug/L				
MS_201405090637	Phenanthrene	ND	2.0	1.87	ug/L	94	(70-130)		
MSD_201405090637	Phenanthrene	ND	2.0	1.87	ug/L	94	(70-130)	20	0.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Phenanthrene-d10 (I)			103	%	103	(50-150)		
MS_201405090637	Phenanthrene-d10 (I)			103	%	103	(50-150)		
MSD_201405090637	Phenanthrene-d10 (I)			106	%	106	(50-150)		
MBLK	Propachlor			<0.025	ug/L				
MS_201405090637	Propachlor	ND	2.0	2.11	ug/L	106	(70-130)		
MSD_201405090637	Propachlor	ND	2.0	2.07	ug/L	104	(70-130)	20	1.9
MBLK	Pyrene			<0.025	ug/L				
MS_201405090637	Pyrene	ND	2.0	1.97	ug/L	98	(70-130)		
MSD_201405090637	Pyrene	ND	2.0	1.99	ug/L	99	(70-130)	20	1.0
MBLK	Simazine			<0.025	ug/L				
MS_201405090637	Simazine	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405090637	Simazine	ND	2.0	2.02	ug/L	101	(70-130)	20	3.5
MBLK	Terbacil			<0.05	ug/L				
MS_201405090637	Terbacil	ND	2.0	1.97	ug/L	99	(70-130)		
MSD_201405090637	Terbacil	ND	2.0	1.92	ug/L	96	(70-130)	20	2.6
MBLK	Terbuthylazine			<0.2	ug/L				
MS_201405090637	Terbuthylazine	ND	2.0	2.17	ug/L	109	(70-130)		
MSD_201405090637	Terbuthylazine	ND	2.0	2.18	ug/L	109	(70-130)	20	0.46
MBLK	Thiobencarb			<0.1	ug/L				
MS_201405090637	Thiobencarb	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405090637	Thiobencarb	ND	2.0	1.99	ug/L	100	(70-130)	20	2.5
MBLK	trans-Nonachlor			<0.025	ug/L				
MS_201405090637	trans-Nonachlor	ND	2.0	1.99	ug/L	99	(70-130)		
MSD_201405090637	trans-Nonachlor	ND	2.0	2.01	ug/L	100	(70-130)	20	1.0
MBLK	Trifluralin			<0.05	ug/L				
MS_201405090637	Trifluralin	ND	2.0	1.97	ug/L	99	(70-130)		
MSD_201405090637	Trifluralin	ND	2.0	1.98	ug/L	99	(70-130)	20	1.0
MBLK	Triphenylphosphate (S)			108	%	108	(70-130)		
MS_201405090637	Triphenylphosphate (S)			104	%	104	(70-130)		
MSD_201405090637	Triphenylphosphate (S)			104	%	104	(70-130)		

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Pace Analytical Services, Inc.
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May 28, 2014

Ms. Jaclyn L. Contreras
Eurofins Eaton Analytical
750 Royal Oaks Drive, 100
Monrovia, CA 910163629

RE: Project: PACE PA 479896
Pace Project No.: 30120048

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, Eurofins Eaton Analytical

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SAMPLE SUMMARY

Project: PACE PA 479896
Pace Project No.: 30120048

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30120048001	**201405050183**	Drinking Water	05/05/14 09:50	05/08/14 10:00

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SAMPLE ANALYTE COUNT

Project: PACE PA 479896
Pace Project No.: 30120048

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30120048001	**201405050183**	EPA 900.0	JMR	2
		EPA 903.1	SLA	1
		EPA 904.0	JAL	1

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PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30120048

Method: **EPA 900.0**
Description: 900.0 Gross Alpha/Beta
Client: Eurofins Eaton Analytical
Date: May 28, 2014

General Information:
1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30120048

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Eurofins Eaton Analytical
Date: May 28, 2014

General Information:
1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30120048

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Eurofins Eaton Analytical
Date: May 28, 2014

General Information:
1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: PACE PA 479896
Pace Project No.: 30120048

Sample: 201405050183 **Lab ID: 30120048001** Collected: 05/05/14 09:50 Received: 05/08/14 10:00 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	**1.30 ± 0.991 (3.00) C:NA T:NA**	pCi/L	05/17/14 12:48	12587-46-1	
Gross Beta	EPA 900.0	**1.40 ± 0.584 (4.00) C:NA T:NA**	pCi/L	05/17/14 12:48	12587-47-2	
Radium-226	EPA 903.1	**0.237 ± 0.367 (1.00) C:NA T:96%**	pCi/L	05/21/14 14:34	13982-63-3	
Radium-228	EPA 904.0	**0.420 ± 0.406 (1.00) C:75% T:79%**	pCi/L	05/22/14 12:24	15262-20-1	

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30120048

QC Batch: RADC/19768 | Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0 | Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30120048001

METHOD BLANK: 729218 | Matrix: Water
Associated Lab Samples: 30120048001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.085 ± 0.613 (1.61) C:NA T:NA	pCi/L	05/17/14 12:44	
Gross Beta	0.844 ± 0.903 (1.92) C:NA T:NA	pCi/L	05/17/14 12:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30120048

QC Batch: RADC/19741 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30120048001

METHOD BLANK: 728624 Matrix: Water
Associated Lab Samples: 30120048001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.135 ± 0.423 (0.949) C:82% T:75%	pCi/L	05/21/14 13:01	

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30120048

QC Batch: RADC/19738 | Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 | Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30120048001

METHOD BLANK: 728621 | Matrix: Water
Associated Lab Samples: 30120048001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.099 ± 0.308 (0.701) C:NA T:107%	pCi/L	05/21/14 13:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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eurofins | Eaton Analytical

Submittal Form & Purchase Order 99-28378

Date: 5/7/2014

Ship To:
1638 Roseytown Road, Suite 2
PACE Analytical Services, Inc.
Suite 2
Greensburg, PA 15601

Phone: 724-850-5600 Fax: 724-850-5601

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **479896** Sub PO# **99-28378** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Folder #:	Report Due:	Sub PO #:
479896	05/29/2014	99-28378

CH2M Redding - labspec7 and report test to MRL

Client has stated that they haven't needed a level 4

301120048

JLS	Use Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
	201405050183	FW-03-055-Q2		05/05/14 0950	DW	001	
EPA 903.1	@R226EDD		Radium 226 (Sub)				
EPA 904.0	@R228EDD		Radium 228 (Sub)				
EPA 900.0	@RADEDD		Gross Alpha/Beta Radiation (Sub)				

Relinquished by: M. DE MESA Sample Control EEA Date 5-7-14 Time 1429

Received by: Scott Avila Date 5-8-14 Time 1000

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

Sample Condition Upon Receipt

Pace Analytical

Client Name: Eurofins

Project # 301120048

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 5089 9123 7760

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

Thermometer Used 6 7 8

Type of Ice: Wet Blue (None) [ ] Samples on ice, cooling process has begun

Cooler Temperature NA

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: SRA 5-8-14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[ ] Yes [X] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[ ] Yes [X] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[ ] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: wt		
All containers needing preservation have been checked.	[X] Yes [ ] No [ ] N/A	13. PHL2
All containers needing preservation are found to be in compliance with EPA recommendation	[X] Yes [ ] No [ ] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ] Yes [X] No	Initial when completed SRA / Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [ ] No [X] N/A	15.
Trip Blank Present:	[ ] Yes [X] No [ ] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5/9/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

page 2

301120048

Project Number: _____

Client Name: Euro Fins

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	wt																		2-1L 1-500ml					

SCURF Back (C016-4 15May2012).xls

Quality Control Sample Performance Assessment

Analyst:	JMR		
Date:	5/19/2014	Method:	EPA 900 0
Worklist:	19768	SOP:	PGH-R-001
Matrix:	DW	MB Sample ID:	729218

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Gross Alpha	0.0850	0.6130	1.6140	0.49100		
Gross Beta	0.8440	0.8900	1.9150	0.65000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Gross Alpha		Gross Beta			
Count Date:	5/17/14 12:46	5/17/14 12:47	5/17/14 12:46	5/17/14 12:47		
Spike I.D.:	13-048GA	13-048GA	13-047GB	13-047GB		
Spike Concentration (pCi/L):	64.598	64.598	84.989	84.989		
Volume Used (mL):	0.050	0.050	0.050	0.050		
Aliquot Volume (L, g, F):	0.201	0.200	0.201	0.200		
Target Conc. (pCi/L, g, F):	16.047	16.111	21.112	21.196		
1.96 Sigma Uncertainty (Calculated):	0.566	0.568	1.283	1.288		
Result (pCi/L, g, F):	14.335	15.337	22.772	23.664		
1.96 Sigma Unc:	2.547	2.644	2.522	2.605		
% Recovery:	89.33%	95.20%	107.86%	111.64%		
Assessment:	Pass	Pass	Pass	Pass		
Upper % Recovery Limits:	121.00%	121.00%	130.00%	130.00%		
Lower % Recovery Limits:	69.00%	69.00%	79.00%	79.00%		

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y	Y				
Analyte:	Gross Alpha	Gross Beta				
Sample I.D.:	LCS19768	LCS19768				
Duplicate Sample I.D.	LCSD19768	LCSD19768				
Sample Result (pCi/L, g, F):	14.3350	22.7720				
1.96 Sigma Unc:	2.5470	0.0000				
Sample Duplicate Result (pCi/L, g, F):	15.3370	23.6640				
Duplicate Sample 1.96 Sigma Unc.	2.6440	2.6050				
Either results below MDC?	NO	NO				
Relative Percent Difference:	6.75%	3.84%				
Assessment:	Pass	Pass				
% RPD Limit:	34.00%	29.00%				

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Gross Alpha	Gross Beta	
Sample Collection Date:	4/30/2014	4/30/2014	
Sample I.D.	30119911001	30119911001	
Sample MS I.D.	30119911001MS	30119911001MS	
Sample MSD I.D.			
Spike I.D.:	13-048GA	13-047GB	
MS/MSD Decay Corrected Spike Conc. (pCi/L):	64.598	85.088	
Spike Volume Used in MS (mL):	0.10	0.10	
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.2007	0.2007	
MS Target Conc.(pCi/L, g, F):	32.187	42.395	
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	1.136	2.576	
MSD Spike uncertainty (calculated):			
Sample Result:	0.534	114.809	
Sample 1.96 Sigma Unc.:	0.975	4.753	
Sample Matrix Spike Result:	30.511	158.835	
Sample MS 1.96 Sigma Unc.:	5.261	6.235	
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	93.14%	103.85%	
MSD % Recovery:			
MS Assessment:	Pass	Pass	
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	121.00%	130.00%	
MS/MSD Lower % Recovery Limits:	69.00%	79.00%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

Quality Control Sample Performance Assessment

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www.pacelabs.com

Test:	Ra-226
Analyst:	SLA
Date:	5/12/2014
Worklist:	19738
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID	728621
MB concentration:	-0.099
M/B Counting Uncertainty:	0.308
MB MDC:	0.701
MB Numerical Performance Indicator:	-4.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS19738	**LCSD19738**
Count Date:	5/21/2014	5/21/2014
Spike I.D.:	14-002	14-002
Spike Concentration (pCi/mL):	55.371	55.371
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.523	0.513
Target Conc. (pCi/L, g, F):	10.585	10.790
Uncertainty (Calculated):	0.254	0.259
Result (pCi/L, g, F):	9.331	9.443
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.544	1.469
Numerical Performance Indicator:	-1.57	-1.77
Percent Recovery:	88.15%	87.51%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/30/2014
Sample I.D.	30120047001
Sample MS I.D.	30120047001MS
Sample MSD I.D.	
Spike I.D.:	14-002
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	55.375
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.526
MS Target Conc.(pCi/L, g, F):	21.071
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.506
Sample Result:	0.262
Sample Result Counting Uncertainty (pCi/L, g, F):	0.370
Sample Matrix Spike Result:	18.280
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.885
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-3.011
MSD Numerical Performance Indicator:	
MS Percent Recovery:	85.51%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS19738	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD19738	
Sample Result (pCi/L, g, F):	9.331	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.544	
Sample Duplicate Result (pCi/L, g, F):	9.443	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.469	
Are sample and/or duplicate results below MDC?	NO	
Duplicate Numerical Performance Indicator:	-0.103	
Duplicate RPD:	1.19%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	JAL
Date:	5/12/2014
Worklist:	19741
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID	728624
MB concentration:	0.135
M/B Counting Uncertainty:	0.422
MB MDC:	0.949
MB Numerical Performance Indicator:	0.62
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS19741	**LCSD19741**
Count Date:	5/21/2014	5/21/2014
Spike I.D.:	13-029	13-029
Spike Concentration (pCi/mL):	41.215	41.215
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.806	0.803
Target Conc. (pCi/L, g, F):	5.112	5.131
Uncertainty (Calculated):	0.367	0.368
Result (pCi/L, g, F):	4.781	4.739
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.631	0.654
Numerical Performance Indicator:	-0.89	-1.03
Percent Recovery:	93.52%	92.35%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/18/2014
Sample I.D.	30119980001
Sample MS I.D.	30119980001MS
Sample MSD I.D.	
Spike I.D.:	13-029
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	42.094
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.826
MS Target Conc.(pCi/L, g, F):	10.187
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.731
Sample Result:	1.181
Sample Result Counting Uncertainty (pCi/L, g, F):	0.449
Sample Matrix Spike Result:	9.237
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.055
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-3.072
MSD Numerical Performance Indicator:	
MS Percent Recovery:	79.08%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS19741	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD19741	
Sample Result (pCi/L, g, F):	4.781	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.631	
Sample Duplicate Result (pCi/L, g, F):	4.739	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.654	
Are sample and/or duplicate results below MDC?	NO	
Duplicate Numerical Performance Indicator:	0.091	
Duplicate RPD:	0.89%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 22, 2014

Ms. Jaclyn L. Contreras
Eurofins Eaton Analytical
750 Royal Oaks Drive, 100
Monrovia, CA 910163629

RE: Project: PACE PA 479896
Pace Project No.: 30119889

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, Eurofins Eaton Analytical

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: PACE PA 479896
Pace Project No.: 30119889

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30119889001	**201405050183**	Drinking Water	05/05/14 09:00	05/07/14 09:30

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SAMPLE ANALYTE COUNT

Project: PACE PA 479896
Pace Project No.: 30119889

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30119889001	**201405050183**	EPA 905.0	WRR	1
		EPA 906.0	SLA	1

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Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30119889

Method: **EPA 905.0**
Description: 905.0 Strontium 89/90
Client: Eurofins Eaton Analytical
Date: May 22, 2014

General Information:
1 sample was analyzed for EPA 905.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Workorder Comments:

Client specified reporting limit was used in lieu of the calculated MDC.

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30119889

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: Eurofins Eaton Analytical
Date: May 22, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Workorder Comments:

Client specified reporting limit was used in lieu of the calculated MDC.

This data package has been reviewed for quality and completeness and is approved for release.

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(724)850-5600

ANALYTICAL RESULTS

Project: PACE PA 479896
Pace Project No.: 30119889

Sample: 201405050183 **Lab ID: 30119889001** Collected: 05/05/14 09:00 Received: 05/07/14 09:30 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Strontium-90	EPA 905.0	**0.202 ± 0.323 (2.00) C:88% T:NA**	pCi/L	05/16/14 11:08	10098-97-2	
Tritium	EPA 906.0	**70.1 ± 124 (400) C:NA T:NA**	pCi/L	05/18/14 02:19	10028-17-8	

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30119889

QC Batch: RADC/19799
QC Batch Method: EPA 905.0
Analysis Method: EPA 905.0
Analysis Description: 905.0 Strontium 89/90
Associated Lab Samples: 30119889001

METHOD BLANK: 730233
Matrix: Water
Associated Lab Samples: 30119889001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	0.0720 ± 0.273 (0.635) C:101% T:NA	pCi/L	05/16/14 11:08	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30119889

QC Batch: RADC/19800 | Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 | Analysis Description: 906.0 Tritium
Associated Lab Samples: 30119889001

METHOD BLANK: 730234 | Matrix: Water
Associated Lab Samples: 30119889001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	63.6 ± 120 (204) C:NA T:NA	pCi/L	05/15/14 23:29	

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REPORT OF LABORATORY ANALYSIS

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eurofins | Eaton Analytical

Submittal Form & Purchase Order 99-28349

Date: 5/6/2014

Ship To:
1638 Roseytown Road, Suite 2
PACE Analytical Services, Inc.
Suite 2
Greensburg, PA 15601

Phone: 724-850-5600 Fax: 724-850-5601

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **479896** Sub PO# **99-28349** and Job # **1000014**

Report all quality control data according to Method, Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Folder #:	Report Due:	Sub PO #:
479896	05/23/2014	99-28349

CH2M Redding Project: needs level 4 data pack, labpspec7 edd and test reported to MRL

30119889

JLS	Use Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID 001
	201405050183	FW-03-055-Q2		05/05/14 0950	DW		
EPA 906.0	@H3EDD		Total Tritium (Sub)				
EPA 905.0	@SR90EDD		Total Strontium-90 (sub)				

Relinquished by: Sample Control MD Date 5.6 Time 1600

Received by: Alyna R. Mchoney Date 5/7/14 Time 0930

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

Sample Condition Upon Receipt

Pace Analytical 2 #3 form OPP

Client Name: MWH Project # 30119889

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 5801 - - 2373 09

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 6 7 8 Type of Ice: Wet Blue (None) ☐ Samples on ice, cooling process has begun

Cooler Temperature N/A Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: ARM 5/7/14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. Time on sample bottles is 0900
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation	☑Yes ☐No ☐N/A	pH<2
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: ARM Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 5/8/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30119889

Client Name: MWH

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT	1																	1					

Amber 5/1/1

SCURF Back (C016-4 15May2012).xls

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst:	WRR		
Date:	5/19/2014	Method:	EPA 905 0
Worklist:	19799	SOP:	PGH-R-010
Matrix:	DW	MB Sample ID:	730233

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Strontium-90	0.0720	0.2730	0.6350	0.22300		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Strontium-90					
Count Date:	5/16/14 13:11	5/16/14 13:11				
Spike I.D.:	08-027	08-027				
Spike Concentration (pCi/L):	44.124	44.124				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.516	0.502				
Target Conc. (pCi/L, g, F):	8.546	8.793				
1.96 Sigma Uncertainty (Calculated):	0.838	0.862				
Result (pCi/L, g, F):	8.960	9.170				
1.96 Sigma Unc:	0.906	0.914				
% Recovery:	104.85%	104.29%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	130.00%	130.00%				
Lower % Recovery Limits:	65.00%	65.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Strontium-90					
Sample I.D.:	LCS19799					
Duplicate Sample I.D.	LCSD19799					
Sample Result (pCi/L, g, F):	8.9600					
1.96 Sigma Unc:	0.9060					
Sample Duplicate Result (pCi/L, g, F):	9.1700					
Duplicate Sample 1.96 Sigma Unc.	0.9140					
Either results below MDC?	N					
Relative Percent Difference:	2.32%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Strontium-90		
Sample Collection Date:	5/8/2014		
Sample I.D.	30120320001		
Sample MS I.D.	30120320001MS		
Sample MSD I.D.			
Spike I.D.:	08-027		
MS/MSD Decay Corrected Spike Conc. (pCi/L):	44.148		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.4037		
MS Target Conc.(pCi/L, g, F):	21.873		
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	2.144		
MSD Spike uncertainty (calculated):			
Sample Result:	0.113		
Sample 1.96 Sigma Unc.:	0.147		
Sample Matrix Spike Result:	20.470		
Sample MS 1.96 Sigma Unc.:	1.540		
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	93.07%		
MSD % Recovery:			
MS Assessment:	Pass		
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	130.00%		
MS/MSD Lower % Recovery Limits:	65.00%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst:	SLA		
Date:	5/16/2014	Method:	EPA 906 0
Worklist:	19800	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	730234

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	63.5500	119.6000	204.4000	97.22000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	5/16/14 11.43	5/16/14 12.44				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2456.201	2456.185				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.102	0.103				
Target Conc. (pCi/L, g, F):	2398.634	2385.804				
1.96 Sigma Uncertainty (Calculated):	65.819	65.466				
Result (pCi/L, g, F):	2324.410	2030.650				
1.96 Sigma Unc:	222.200	223.200				
% Recovery:	96.91%	85.11%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	LCS19800					
Duplicate Sample I.D.	LCSD19800					
Sample Result (pCi/L, g, F):	2324.4100					
1.96 Sigma Unc:	222.2000					
Sample Duplicate Result (pCi/L, g, F):	2030.6500					
Duplicate Sample 1.96 Sigma Unc.	223.2000					
Either results below MDC?	N					
Relative Percent Difference:	13.49%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium	Tritium	
Sample Collection Date:	5/5/2014	5/5/2014	
Sample I.D.	30119889001	30119909001	
Sample MS I.D.	30119889001MS	30119909001MS	
Sample MSD I.D.			
Spike I.D.:	10-003	10-003	
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2460.406	2460.387	
Spike Volume Used in MS (mL):	0.20	0.20	
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1029	0.1098	
MS Target Conc.(pCi/L, g, F):	4782.130	4480.762	
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	131.222	122.952	
MSD Spike uncertainty (calculated):			
Sample Result:	70.150	9.810	
Sample 1.96 Sigma Unc.:	124.200	121.000	
Sample Matrix Spike Result:	4032.040	4276.660	
Sample MS 1.96 Sigma Unc.:	282.700	295.800	
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	82.85%	95.23%	
MSD % Recovery:			
MS Assessment:	Pass	Pass	
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%	125.00%	
MS/MSD Lower % Recovery Limits:	75.00%	75.00%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

5/20/14

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 28, 2014

Ms. Jaclyn L. Contreras
Eurofins Eaton Analytical
750 Royal Oaks Drive, 100
Monrovia, CA 910163629

RE: Project: PACE PA 479896
Pace Project No.: 30120048

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, Eurofins Eaton Analytical

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SAMPLE SUMMARY

Project: PACE PA 479896
Pace Project No.: 30120048

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30120048001	**201405050183**	Drinking Water	05/05/14 09:50	05/08/14 10:00

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SAMPLE ANALYTE COUNT

Project: PACE PA 479896
Pace Project No.: 30120048

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30120048001	**201405050183**	EPA 900.0	JMR	2
		EPA 903.1	SLA	1
		EPA 904.0	JAL	1

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PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30120048

Method: **EPA 900.0**
Description: 900.0 Gross Alpha/Beta
Client: Eurofins Eaton Analytical
Date: May 28, 2014

General Information:
1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30120048

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: Eurofins Eaton Analytical
Date: May 28, 2014

General Information:
1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: PACE PA 479896
Pace Project No.: 30120048

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: Eurofins Eaton Analytical
Date: May 28, 2014

General Information:
1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: PACE PA 479896
Pace Project No.: 30120048

Sample: 201405050183 **Lab ID: 30120048001** Collected: 05/05/14 09:50 Received: 05/08/14 10:00 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	**1.30 ± 0.991 (3.00) C:NA T:NA**	pCi/L	05/17/14 12:48	12587-46-1	
Gross Beta	EPA 900.0	**1.40 ± 0.584 (4.00) C:NA T:NA**	pCi/L	05/17/14 12:48	12587-47-2	
Radium-226	EPA 903.1	**0.237 ± 0.367 (1.00) C:NA T:96%**	pCi/L	05/21/14 14:34	13982-63-3	
Radium-228	EPA 904.0	**0.420 ± 0.406 (1.00) C:75% T:79%**	pCi/L	05/22/14 12:24	15262-20-1	

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30120048

QC Batch: RADC/19768 | Analysis Method: EPA 900.0
QC Batch Method: EPA 900.0 | Analysis Description: 900.0 Gross Alpha/Beta
Associated Lab Samples: 30120048001

METHOD BLANK: 729218 | Matrix: Water
Associated Lab Samples: 30120048001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.085 ± 0.613 (1.61) C:NA T:NA	pCi/L	05/17/14 12:44	
Gross Beta	0.844 ± 0.903 (1.92) C:NA T:NA	pCi/L	05/17/14 12:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30120048

QC Batch: RADC/19741 | Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 | Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30120048001

METHOD BLANK: 728624 | Matrix: Water
Associated Lab Samples: 30120048001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.135 ± 0.423 (0.949) C:82% T:75%	pCi/L	05/21/14 13:01	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: PACE PA 479896
Pace Project No.: 30120048

QC Batch: RADC/19738 | Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 | Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30120048001

METHOD BLANK: 728621 | Matrix: Water
Associated Lab Samples: 30120048001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.099 ± 0.308 (0.701) C:NA T:107%	pCi/L	05/21/14 13:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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without the written consent of Pace Analytical Services, Inc..

eurofins | Eaton Analytical

Submittal Form & Purchase Order 99-28378

Date: 5/7/2014

Ship To:
1638 Roseytown Road, Suite 2
PACE Analytical Services, Inc.
Suite 2
Greensburg, PA 15601

Phone: 724-850-5600 Fax: 724-850-5601

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **479896** Sub PO# **99-28378** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Folder #:	Report Due:	Sub PO #:
479896	05/29/2014	99-28378

CH2M Redding - labspec7 and report test to MRL

Client has stated that they haven't needed a level 4

301120048

JLS	Use Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
	201405050183	FW-03-055-Q2		05/05/14 0950	DW	001	
EPA 903.1	@R226EDD		Radium 226 (Sub)				
EPA 904.0	@R228EDD		Radium 228 (Sub)				
EPA 900.0	@RADEDD		Gross Alpha/Beta Radiation (Sub)				

Relinquished by: M. DE MESA Sample Control EEA Date 5-7-14 Time 1429

Received by: Scott Avila Date 5-8-14 Time 1000

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

Sample Condition Upon Receipt

Pace Analytical

Client Name: Eurofins

Project # 301120048

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 5089 9123 7760

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

Thermometer Used 6 7 8

Type of Ice: Wet Blue (None) [ ] Samples on ice, cooling process has begun

Cooler Temperature NA

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: SRA 5-8-14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[ ] Yes [X] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[ ] Yes [X] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[ ] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: wt		
All containers needing preservation have been checked.	[X] Yes [ ] No [ ] N/A	13. PHL2
All containers needing preservation are found to be in compliance with EPA recommendation	[X] Yes [ ] No [ ] N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	[ ] Yes [X] No	Initial when completed SRA / Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [ ] No [X] N/A	15.
Trip Blank Present:	[ ] Yes [X] No [ ] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 5/9/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

301120048

Project Number: _____

Client Name: Euro Fins

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	wt																		2-1L 1-500ml					

Quality Control Sample Performance Assessment

Analyst:	JMR		
Date:	5/19/2014	Method:	EPA 900 0
Worklist:	19768	SOP:	PGH-R-001
Matrix:	DW	MB Sample ID:	729218

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Gross Alpha	0.0850	0.6130	1.6140	0.49100		
Gross Beta	0.8440	0.8900	1.9150	0.65000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Gross Alpha		Gross Beta			
Count Date:	5/17/14 12:46	5/17/14 12:47	5/17/14 12:46	5/17/14 12:47		
Spike I.D.:	13-048GA	13-048GA	13-047GB	13-047GB		
Spike Concentration (pCi/L):	64.598	64.598	84.989	84.989		
Volume Used (mL):	0.050	0.050	0.050	0.050		
Aliquot Volume (L, g, F):	0.201	0.200	0.201	0.200		
Target Conc. (pCi/L, g, F):	16.047	16.111	21.112	21.196		
1.96 Sigma Uncertainty (Calculated):	0.566	0.568	1.283	1.288		
Result (pCi/L, g, F):	14.335	15.337	22.772	23.664		
1.96 Sigma Unc:	2.547	2.644	2.522	2.605		
% Recovery:	89.33%	95.20%	107.86%	111.64%		
Assessment:	Pass	Pass	Pass	Pass		
Upper % Recovery Limits:	121.00%	121.00%	130.00%	130.00%		
Lower % Recovery Limits:	69.00%	69.00%	79.00%	79.00%		

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y	Y				
Analyte:	Gross Alpha	Gross Beta				
Sample I.D.:	LCS19768	LCS19768				
Duplicate Sample I.D.	LCSD19768	LCSD19768				
Sample Result (pCi/L, g, F):	14.3350	22.7720				
1.96 Sigma Unc:	2.5470	0.0000				
Sample Duplicate Result (pCi/L, g, F):	15.3370	23.6640				
Duplicate Sample 1.96 Sigma Unc.	2.6440	2.6050				
Either results below MDC?	NO	NO				
Relative Percent Difference:	6.75%	3.84%				
Assessment:	Pass	Pass				
% RPD Limit:	34.00%	29.00%				

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Gross Alpha	Gross Beta	
Sample Collection Date:	4/30/2014	4/30/2014	
Sample I.D.	30119911001	30119911001	
Sample MS I.D.	30119911001MS	30119911001MS	
Sample MSD I.D.			
Spike I.D.:	13-048GA	13-047GB	
MS/MSD Decay Corrected Spike Conc. (pCi/L):	64.598	85.088	
Spike Volume Used in MS (mL):	0.10	0.10	
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.2007	0.2007	
MS Target Conc.(pCi/L, g, F):	32.187	42.395	
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	1.136	2.576	
MSD Spike uncertainty (calculated):			
Sample Result:	0.534	114.809	
Sample 1.96 Sigma Unc.:	0.975	4.753	
Sample Matrix Spike Result:	30.511	158.835	
Sample MS 1.96 Sigma Unc.:	5.261	6.235	
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	93.14%	103.85%	
MSD % Recovery:			
MS Assessment:	Pass	Pass	
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	121.00%	130.00%	
MS/MSD Lower % Recovery Limits:	69.00%	79.00%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

5/28/14

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLA
Date:	5/12/2014
Worklist:	19738
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID	728621
MB concentration:	-0.099
M/B Counting Uncertainty:	0.308
MB MDC:	0.701
MB Numerical Performance Indicator:	-4.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS19738	**LCSD19738**
Count Date:	5/21/2014	5/21/2014
Spike I.D.:	14-002	14-002
Spike Concentration (pCi/mL):	55.371	55.371
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.523	0.513
Target Conc. (pCi/L, g, F):	10.585	10.790
Uncertainty (Calculated):	0.254	0.259
Result (pCi/L, g, F):	9.331	9.443
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.544	1.469
Numerical Performance Indicator:	-1.57	-1.77
Percent Recovery:	88.15%	87.51%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/30/2014
Sample I.D.	30120047001
Sample MS I.D.	30120047001MS
Sample MSD I.D.	
Spike I.D.:	14-002
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	55.375
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.526
MS Target Conc.(pCi/L, g, F):	21.071
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.506
Sample Result:	0.262
Sample Result Counting Uncertainty (pCi/L, g, F):	0.370
Sample Matrix Spike Result:	18.280
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.885
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-3.011
MSD Numerical Performance Indicator:	
MS Percent Recovery:	85.51%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS19738	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD19738	
Sample Result (pCi/L, g, F):	9.331	
Sample Result Counting Uncertainty (pCi/L, g, F):	1.544	
Sample Duplicate Result (pCi/L, g, F):	9.443	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.469	
Are sample and/or duplicate results below MDC?	NO	
Duplicate Numerical Performance Indicator:	-0.103	
Duplicate RPD:	1.19%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	JAL
Date:	5/12/2014
Worklist:	19741
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID	728624
MB concentration:	0.135
M/B Counting Uncertainty:	0.422
MB MDC:	0.949
MB Numerical Performance Indicator:	0.62
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
	LCS19741	**LCSD19741**
Count Date:	5/21/2014	5/21/2014
Spike I.D.:	13-029	13-029
Spike Concentration (pCi/mL):	41.215	41.215
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.806	0.803
Target Conc. (pCi/L, g, F):	5.112	5.131
Uncertainty (Calculated):	0.367	0.368
Result (pCi/L, g, F):	4.781	4.739
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.631	0.654
Numerical Performance Indicator:	-0.89	-1.03
Percent Recovery:	93.52%	92.35%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date:	3/18/2014
Sample I.D.	30119980001
Sample MS I.D.	30119980001MS
Sample MSD I.D.	
Spike I.D.:	13-029
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	42.094
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	
MS Aliquot (L, g, F):	0.826
MS Target Conc.(pCi/L, g, F):	10.187
MSD Aliquot (L, g, F):	
MSD Target Conc. (pCi/L, g, F):	
Spike uncertainty (calculated):	0.731
Sample Result:	1.181
Sample Result Counting Uncertainty (pCi/L, g, F):	0.449
Sample Matrix Spike Result:	9.237
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.055
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	-3.072
MSD Numerical Performance Indicator:	
MS Percent Recovery:	79.08%
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	

Duplicate Sample Assessment

Sample I.D.:	LCS19741	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD19741	
Sample Result (pCi/L, g, F):	4.781	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.631	
Sample Duplicate Result (pCi/L, g, F):	4.739	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.654	
Are sample and/or duplicate results below MDC?	NO	
Duplicate Numerical Performance Indicator:	0.091	
Duplicate RPD:	0.89%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

CH2M Hill
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
06/26/2014

EUROFINS EATON
ANALYTICAL

Report: 481285
Project: HINKLEY
Group: Fresh Water Well

DST: David S Tripp

Project Manager

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 481285
Project: HINKLEY
Sample Group: Fresh Water Well

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 13, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405130749	FW-04-055-Q2	05/13/2014 1300

@ANIONS28	320	@ICP
@ICPMS	Agressiveness Index-Calculated	Alkalinity in CaCO3 units
Anion Sum - Calculated	Bicarb.Alkalinity as HCO3,calc	Carbon Dioxide,Free(25C)-Calc.
Carbonate as CO3, Calculated	Cation Sum - Calculated	Fluoride
Hydroxide as OH, Calculated	Langelier Index - 25 degree	Mercury
PH (H3=past HT not compliant)	pH of CaCO3 saturation(25C)	pH of CaCO3 saturation(60C)
Specific Conductance	Surfactants	Total Dissolved Solid (TDS)
Total Hardness as CaCO3 by ICP	Apparent Color	Odor at 60 C (TON)
Turbidity	@ICPMS	Uranium by ICPMS as pCi/L
@2378-TCDD_Dioxin	@525PLUS	@551_EDB-DBCP
@COLI-18	@DIQUAT	@H3EDD
@ML505	@ML515.4	@ML531.2
@RA226 GA	@RA228 GA	@RAD_BETA_ONLY
@SR90EDD	@VOASDWA	Asbestos by TEM - >10 microns
Cobalt Total ICAP/MS	Hexavalent chromium(Dissolved)	Cyanide
Endothall	Glyphosate	Gross Alpha by Co-precipitation
Orthophosphate as P (OPO4)	Orthophosphate as PO4	Perchlorate
Silica Dissolved		

201405130750	Travel Blank	05/13/2014 0800

@551_EDB_DBCP TB	@VOASDWA TB

201405130751	Sample Pick Up	05/13/2014 0800

Courier Charge

Test Description

@ANIONS28 -- Chloride, Sulfate by EPA 300.0

@ICP -- ICP Metals

@ICPMS -- ICPMS Metals

@ICPMS -- ICPMS Metals

@2378-TCDD_Dioxin -- 2,3,7,8-TCDD_Dioxin

@525PLUS -- Semivolatiles by GCMS

@551_EDB_DBCP TB -- EDB/DBCP/HAN by EPA 551.1

@551_EDB-DBCP -- EDB/DBCP/HAN by EPA 551.1

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 481285
Project: HINKLEY
Sample Group: Fresh Water Well

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 13, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
	@COLI-18 -- Coliform,Pres/Absence,18 Hours	
	@DIQUAT -- Diquat and Paraquat	
	@H3EDD -- Total Tritium (Sub)	
	@ML505 -- Organochlorine Pesticides/PCBs	
	@ML515.4 -- Chlorophenoxy Herbicides	
	@ML531.2 -- Aldicarbs	
	@RA226 GA -- Radium 226	
	@RA228 GA -- Radium 228	
	@RAD_BETA_ONLY -- Gross Alpha/Beta Radiation	
	@SR90EDD -- Total Strontium-90 (sub)	
	@VOASDWA -- Volatile Organics by GCMS	
	@VOASDWA TB -- Volatile Organics by GCMS	

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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UCMR3 CHAIN OF CUSTODY RECORD

45 481285

750 Royal Oaks Drive, Suite 100. Monrovia, CA 91016-3629

Phone: 626 386 1100/ 800 566 LABS (800 566 5227)
Fax: 626 386 1101

Website: www.EatonAnalytical.com

PWSID: _____
Example: (CA1234567)

EUROFINS EATON ANALYTICAL USE ONLY:

Folder No:

LOGIN COMMENTS: ONLY 1 VIAL RECEIVED FOR 551.1 TB MLD 5-13-14

SAMPLES CHECKED AGAINST COC BY: MLD

SAMPLES LOGGED IN BY: W

SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

SAMPLE TEMP RECEIVED AT:
[ ] Colton / No. California / Arizona _____ °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)
[X] Monrovia 10.2 °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice X No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ESSENTIAL

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CH2M Hill

PROJECT CODE: PGE Hinkley

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP:

COMPLIANCE SAMPLES [ ] (check for yes)
- Requires upload to EPA database [ ]

Regulation: UCMR3

NOTE: we **MUST** have PWSID#, Facility ID, Sample Point ID, and Sample Type to be able to upload data to EPA Database

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [X] (check for yes), *OR*

list ANALYSES REQUIRED (Mark "X" in all test required for each sample line)

TAT requested: rush by adv notice only 21days STD X 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	FACILITY ID (per EPA Requirement) - 5 characters Max	UNIQUE FIELD SAMPLE ID (per EPA Requirement) - 20 characters max	WATER SOURCE TYPE (1)	SAMPLE EVENT # (2)	SAMLE POINT TYPE ID (3)	DISINFECTANT TYPE (4)	UCMR3 200.8	UCMR3 200.8 - FB *	UCMR3 218.7	UCMR3 522	UCMR3 524.3	UCMR3 524.3 - TB *	UCMR3 537	UCMR3 537 - FB *	UCMR3 539	UCMR3 539 - FB *	UCMR3 Chlorate				SAMPLER COMMENTS
5/13/14	1300	NA	FW-04-055-Q2	GW	SE1	EP	NODU	SEE ATTACHED BOTTLE ORDER FOR ANALYSIS														
								PLEASE RUSH (24 hour) Cr+6 & AS														
								IAT 5/13/14 1736														

(1) **Water Source Type:** **SW:** Surface Water **GW:** Ground Water **GU:** Ground Water under the direct influence of SW **MX:** Any Combination of previous three water types

(2) **Sample Event Code:** **SE1** (first) **SE2** (second) **SE3** (third) **SE4** (fourth)

(3) **Sampling Point Type ID:** **EP:** Entry Point to the distribution system **MR:** Distribution System sample at maximum residence time

(4) **Disinfectant Type:** **CLGA:** Gaseous Chlorine **CLOF:** Offsite Generated Hypochlorite (stored as liquid form) **CLON:** Onsite Generated Hypochlorite (no storage) **CAGC:** Chloramine (formed from gaseous chlorine) **CAOF:** Chloroamine (formed from offsite hypochlorite) **CAON:** Chloroamine (formed from onsite hypochlorite) **CLDO:** Chlorine Dioxide **OZON:** Ozone **ULVL:** Ultraviolet Light **OTHD:** All Other Types of Disinfectant **NODU:** No Disinfectant Used

* Field Blank (FB) or Trip Blank (TB) are analyzed only when associated samples have positive results (>MRL)

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
SAMPLED BY:	Garrett Frey	Garrett Frey	Groundwater Partners	5/13/14	1300
RELINQUISHED BY:	Garrett Frey	Garrett Frey	Groundwater Partners	5/13/14	1517
RECEIVED BY:	Mathew Regalado	Mathew Regalado	Essential Couriers	5/13/14	1517
RELINQUISHED BY:					
RECEIVED BY:		M. Gomez	EEA	5-13-14	1735

QA FO 0030 (06/26/2013)

PAGE 1 OF 3

CH2MHILL

CHAIN OF CUSTODY RECORD

Project Name PGE Hinkley
Location Hinkley
Project Number 480762.01.SW.DM
Project Manager William Deboer
Sample Manager Jim Hanvey
Cell Number (404) 229-2181
Fax Number (510) 622-9136
Task Order 55
Project 2014-FWW-055-Q2
Turnaround Time 21 Days
Shipping Date:
COC Number:

Container:	250 ml Poly	500 ml Poly	500 ml Poly	500 ml Poly	100ml Sterol	1000ml Poly	2x1000 ml Poly	1000ml Poly	1000ml Poly	125ml Amber	1000ml Amber	1000ml Amber	1000ml Amber	2x40ml Amber	2x125ml Amber
Preservatives:	(NH4)2, SO4, NH4, OH, 4°C	HNO3, 4°C	HNO3, 4°C	HNO3, 4°C	4°C	HNO3	HNO3	4°C	4°C	4°C	4°C	4°C	4°C	KH2citrate + thioSO4; 4°C	7 mg SULFITEx Is; 4°C
Filtered:	Field	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Holding Time (days):	5	180	180	180	ASAP	180	180	NA	2	14	ASAP	ASAP	ASAP	28	14
	Cr (VI) (E218.6) FF	Metals (E245.1) Hg	Metals (E200.7) Ca,Fe,K,Mg,Na	Metals (E200.8) AlAsBaBeCdCoCrCuPbMnNiSb SeTlUZn	Total Coliform, Fecal and E.Coli (SM9221B/E)	Gross Alpha/Beta (SM7110B/E900)	Radium 226&228 (7500Ra-C/903.1-D/904)	Tritium (ultra low)	Asbestos (E100.1)	Glyphosate (E547)	Color (SM2120B)	Threshold Odor Number (SM2150B)	Turbidity (E180.1)	Carbamates (E531.1)	Chlorinated Acids (E515.4)

SAMPLE ID	DATE	TIME	Matrix	Cr (VI)	Metals	Metals	Metals	Total Coliform	Gross Alpha	Radium	Tritium	Asbestos	Glyphosate	Color	Threshold Odor	Turbidity	Carbamates	Chlorinated Acids	Number of Containers	COMMENTS
FW-04-055-Q2	5/13/14	1300	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
TOTAL NUMBER OF CONTAINERS																				

	Signatures	Date/Time
Approved by	Matt Fry	1300 5/13/14
Sampled by	Matt Fry	5/13/14 1300
Relinquished by	Matt Fry	5/13/14 1517
Received by	Matthew R	5/13/14 1517
Relinquished by		
Received by	M. DE MESA EBA	5-13-14 1735

Shipping Details
Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: Eurofins
Lab Phone: (626) 386-1158

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding, CA 96001

CH2MHILL

CHAIN OF CUSTODY RECORD

Project Name PGE Hinkley
Location Hinkley
Project Number 480762.01.SW.DM
Project Manager William Deboer
Sample Manager Jim Hanvey
Cell Number (404) 229-2181
Fax Number (510) 622-9136
Task Order 55
Project 2014-FWW-055-Q2
Turnaround Time 21 Days
Shipping Date:
COC Number:

Container:	2x1liter Amber	1liter Amber	3x60ml Amber	250 Amber	3x40ml VOA	1liter Poly	2x1L Amber	4x40ml Amber	125ml Ploy	500 ml Poly	500 ml Poly	500 ml Poly	125 ml Poly	250 ml Poly	250 ml Poly
Preservatives:	4°C	4°C	EDB+NH4 Cl; 4°C	4°C	HCL; 4°C	HNO3; 4°C	6°C	Thio;4°C	4°C	4°C	4°C	4°C	4°C	4°C	4°C
Filtered:	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Field	NA	NA
Holding Time (days):	30	7	14	14	14	180	14	7	28	2	2	2	2	14	14
	TCDD-Dioxin (E1613)	Diquat (E549.2)	EDP/DBCP (E551.1)	Endothall (E548.1)	VOCs (E524.2) @VOA_WHM C	Strontium 90 (E905.0)	SVOCs (E525.2) extended list @525_WHM C	PCB/Toxaphene/Chlordane (E505)	Perchlorate (E314.0)	MBAS (SM5540C)	TDS (SM2540C)	Anions (E300.0) Cl,F,NO3N,SO4	Ortho-Phosphate FF (E300.0)	Alkalinity (SM2320B)	PH (SM4500HB)

SAMPLE ID	DATE	TIME	Matrix	TCDD-Dioxin (E1613)	Diquat (E549.2)	EDP/DBCP (E551.1)	Endothall (E548.1)	VOCs (E524.2) @VOA_WHM C	Strontium 90 (E905.0)	SVOCs (E525.2) extended list @525_WHM C	PCB/Toxaphene/Chlordane (E505)	Perchlorate (E314.0)	MBAS (SM5540C)	TDS (SM2540C)	Anions (E300.0) Cl,F,NO3N,SO4	Ortho-Phosphate FF (E300.0)	Alkalinity (SM2320B)	PH (SM4500HB)	Number of Containers	COMMENTS
FW-04-055-Q2	5/13/14	1300	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
																			TOTAL NUMBER OF CONTAINERS	

Signatures	Date/Time
Approved by	
Sampled by	
Relinquished by	
Received by	
Relinquished by	
Received by	

Shipping Details

Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: Eurofins
Lab Phone: (626) 386-1158

ATTN:

Special Instructions:

Report Copy to:
Shawn Duffy
(530) 941-9227
2525 Airpark Drive, Redding, CA 96001

CH2MH

CHAIN OF CUSTODY RECORD

Project Name PGE Hinkley
Location Hinkley
Project Number 480762.01.SW.DM
Project Manager William Deboer
Sample Manager Jim Hanvey
Cell Number (404) 229-2181
Fax Number (510) 622-9136
Task Order 55
Project 2014-FWW-055-Q2
Turnaround Time 21 Days
Shipping Date:
COC Number:

			Container:	125 ml Poly	250 ml Poly	125ml Poly		
			Preservatives:	4°C	4°C	NAOH		
			Filtered:	NA	NA	NA		
			Holding Time (days):	14	14	14		
SAMPLE ID	DATE	TIME	Matrix	Soluble Silica (4500Si-D)	Conductivity (SM2510B)	Cyanide (E4500-CN)	Number of Containers	COMMENTS
FW-04-055-Q2				X	X	X		
							TOTAL NUMBER OF CONTAINERS	

Signatures	Date/Time
Approved by	
Sampled by	
Relinquished by	
Received by	
Relinquished by	
Received by	

Shipping Details

Method of Shipment:
On Ice: yes / no
Airbill No:
Lab Name: Eurofins
Lab Phone: (626) 386-1158

ATTN:

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Report Copy to:
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2525 Airpark Drive, Redding, CA 96001

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for CH2M Hill

David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 89869
Created By: ADT
Deliver By: 05/02/2014
STG: Bottle Orders
Ice Type: W

Client ID: CH2M-REDDING
Project Code: HINKLEY Bottle Orders
Group Name: Fresh Water Well
PO#/JOB#:

Ship Sample Kits to
Groundwater Partners
24134 Dixie Road
Hinkley, CA 92347-9682

Attn: Eli Ludwig
Phone: 505-999-7535

Send Report to
CH2M Hill
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831
Fax: 530-243-1654

Billing Address
CH2M Hill
155 Grand Avenue, Suite 800
Oakland, CA 94602

Attn: William DeBoer
Phone: 510-587-7563

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
2	@2378-TCDD_Dioxin	2 1L amber glass D1613_NO_PRESERVATIVE	
2	@525PLUS	2 1L amber glass 2ml of 6N HCl	UN1789
3	@551_EDB_DBCP TB	2 60ml amber glass 1g(1%NaP/99%KP)+0.6%NH4CL+ H2O	
2	@551_EDB-DBCP	3 60ml amber glass EDB1g(1%NaP/99%KP)+0.6%NH4CL	
2	@ANIONS28, @ANIONS48	1 125ml poly no preservative	
2	@COLI-PA	1 100ml poly sterilized 0.25ml thio (8%)	
2	@DIQUAT	1 1L amber poly no preservative	
2	@H3EDD	1 500ml amber glass H3 - no preservative	
2	@ICP, @ICPMS, Mercury, @ICPMS, Uranium by ICPMS as pCi/L, Cobalt Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031
2	@ML505	4 40ml amber glass vial 1drop thio (8%)	
2	@ML515.4	2 125ml amber glass 7mg SULFITE xls	
2	@ML531.2	2 40ml amber glass vial 0.37g KH2Citrate+6mg ThioSO4	
2	@RA226 GA, @RA228 GA	3 1L poly 4ml HNO3 (18%)	UN2031
2	@RAD_BETA_ONLY, Gross Alpha by Co-precipitation	2 500ml poly 2ml 18%HNO3+125ml poly/no pres	UN2031
2	@SR90EDD	1 1L poly 4ml 18%HNO3+125ml poly/no pres	UN2031
2	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
3	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
2	Alkalinity in CaCO3 units, PH (H3=past HT not compliant), Specific Conductance, Silica Dissolved	1 250ml poly no preservative	
2	Apparent Color, Odor at 60 C (TON), Turbidity	1 1L amber glass ODOR_no preservative	
2	Asbestos by TEM - >10 microns	1 1L poly sonicated no preservative	
2	CRVI-LOW	1 125ml poly 1.25 ml NH4SO4/NH4OH buffer	
2	Cyanide	1 250 ml poly 2 ml NaOH (30%)+6 scoops AA	

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for CH2M Hill

David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 89869
Created By: ADT
Deliver By: 05/02/2014
STG: Bottle Orders
Ice Type: W

Client ID: CH2M-REDDING
Project Code: HINKLEY Bottle Orders
Group Name: Fresh Water Well
PO#/JOB#:

Ship Sample Kits to
Groundwater Partners
24134 Dixie Road
Hinkley, CA 92347-9682

Attn: Eli Ludwig
Phone: 505-999-7535

Send Report to
CH2M Hill
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831
Fax: 530-243-1654

Billing Address
CH2M Hill
155 Grand Avenue, Suite 800
Oakland, CA 94602

Attn: William DeBoer
Phone: 510-587-7563

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
2	Endothall	1 250ml amber glass no preservative	
2	Fluoride	1 250 ml poly FLUORIDE_no preservative	
2	Glyphosate	1 125ml amber glass no preservative	
2	Orthophosphate as P, Orthophosphate as PO4	1 125ml poly OPO4_no preservative	
2	Perchlorate	1 125ml poly CLO4 - no preservative	
2	Surfactants	1 500ml poly no preservative	
2	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	

Comments

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 481285

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Folder Comments

Analytical results for Strontium 90 and Tritium are submitted by Pace Analytical Services, Greensburg, PA

Flags Legend:

BF - Target analyte detected in method blank is at or above the method acceptance limits, but below the method reporting limit (MRL) and analyte not present in the sample.

LE - MRL Check recovery was above laboratory acceptance limits.

LK - The associated blank spike recovery was above method acceptance limits. This target analyte was not detected in the sample.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

The Comments Report may be blank if there are no comments for this report.

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 481285

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/13/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201405130749	**FW-04-055-Q2**				
05/17/2014 13:07	Agressiveness Index-Calculated		12		None	0.1
05/16/2014 17:10	Alkalinity in CaCO3 units		83		mg/L	2
05/17/2014 12:45	Anion Sum - Calculated		3.8		meq/L	0.001
05/14/2014 11:53	Arsenic Total ICAP/MS		2.2	10	ug/L	1
05/14/2014 11:53	Barium Total ICAP/MS		56	2000	ug/L	2
05/17/2014 13:07	Bicarb.Alkalinity as HCO3calc		100		mg/L	2
05/14/2014 13:28	Calcium Total ICAP		36		mg/L	1
05/17/2014 13:07	Carbon Dioxide,Free(25C)-Calc.		4.1		mg/L	2
05/15/2014 10:03	Cation Sum - Calculated		4.1		meq/L	0.001
05/13/2014 18:37	Chloride		42	250	mg/L	1
05/21/2014 20:29	Dissolved Silica		25		mg/L	0.5
05/23/2014 13:01	Fluoride		0.54	4	mg/L	0.05
05/14/2014 11:02	Hexavalent chromium(Dissolved)		0.12		ug/L	0.02
05/14/2014 13:28	Iron Total ICAP		0.022	0.3	mg/L	0.02
05/17/2014 13:07	Langelier Index - 25 degree		-0.23		None	
05/14/2014 13:28	Magnesium Total ICAP		6.8		mg/L	0.1
05/13/2014 18:37	Nitrate as Nitrogen by IC		1.0	10	mg/L	0.1
05/13/2014 18:37	Nitrate as NO3 (calc)		4.5	45	mg/L	0.44
05/14/2014 12:40	Orthophosphate as P		0.054		mg/L	0.01
05/19/2014 11:13	Orthophosphate as PO4		0.16		mg/L	0.031
05/16/2014 17:10	PH (H3=past HT not compliant)		7.6		Units	0.1
05/17/2014 13:07	pH of CaCO3 saturation(25C)		7.9		Units	0.1
05/15/2014 10:03	pH of CaCO3 saturation(60C)		7.4		Units	0.1
05/14/2014 13:28	Potassium Total ICAP		2.3		mg/L	1
05/14/2014 13:28	Sodium Total ICAP		39		mg/L	1
05/16/2014 17:10	Specific Conductance, 25 C		420		umho/cm	2
05/13/2014 18:37	Sulfate		39	250	mg/L	0.5
05/14/2014 11:58	Total Coliform Bacteria		P		P=Pres/A=Abs	
05/19/2014 23:19	Total Dissolved Solids (TDS)		270	500	mg/L	10
05/15/2014 10:03	Total Hardness as CaCO3 by ICP (calc)		120		mg/L	3
05/13/2014 18:37	Total Nitrate, Nitrite-N, CALC		1.0		mg/L	0.1
05/14/2014 15:27	Turbidity		0.14	5	NTU	0.05
05/14/2014 14:23	Uranium by ICPMS as pCi/L		0.87		pCi/L	0.7
05/14/2014 11:53	Uranium ICAP/MS		1.3	30	ug/L	1

SUMMARY OF POSITIVE DATA ONLY

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 481285

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/13/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-04-055-Q2 (201405130749)						**Sampled on 05/13/2014 1300**		
		EPA 905.0 - Total Strontium-90 (sub)						
	05/24/2014 09:18		(EPA 905.0)	Strontium 90 (sub)	<1	pCi/L	1	1
	05/24/2014 09:18		(EPA 905.0)	Strontium-90, MDA	1.00	pCi/L		1
	05/24/2014 09:18		(EPA 905.0)	Strontium-90, Two Sigma Error	0.145	pCi/L		1
		EPA 200.8 - ICPMS Metals						
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Aluminum Total ICAP/MS	ND	ug/L	20	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Arsenic Total ICAP/MS	2.2	ug/L	1	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Barium Total ICAP/MS	56	ug/L	2	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Cobalt Total ICAP/MS	ND	ug/L	2	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Manganese Total ICAP/MS	ND	ug/L	2	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
5/13/2014	05/14/2014 14:14	769517	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Uranium ICAP/MS	1.3	ug/L	1	1
5/13/2014	05/14/2014 11:53	769472	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
		EPA 200.7 - ICP Metals						
5/13/2014	05/14/2014 13:28	769377	(EPA 200.7)	Calcium Total ICAP	36	mg/L	1	1
5/13/2014	05/21/2014 20:29	771317	(EPA 200.7)	Dissolved Silica	25	mg/L	0.5	1
5/13/2014	05/14/2014 13:28	769377	(EPA 200.7)	Iron Total ICAP	0.022	mg/L	0.02	1
5/13/2014	05/14/2014 13:28	769377	(EPA 200.7)	Magnesium Total ICAP	6.8	mg/L	0.1	1
5/13/2014	05/14/2014 13:28	769377	(EPA 200.7)	Potassium Total ICAP	2.3	mg/L	1	1
5/13/2014	05/14/2014 13:28	769377	(EPA 200.7)	Sodium Total ICAP	39	mg/L	1	1
		EPA 245.1 - Mercury Total						
5/27/2014	05/27/2014 20:47	772357	(EPA 245.1)	Mercury	ND (BF)	ug/L	0.2	1
		EPA 100.2 - Asbestos by TEM - >10 microns						
5/14/2014	05/23/2014 00:00	771767	(EPA 100.2)	Asbestos by TEM - >10 microns	ND	MFL	0.2	1
		SM9223 - Coliform,Pres/Absence,18 Hours						
5/13/2014	05/14/2014 11:58	769483	(SM9223)	E. coli Bacteria	A	P=Pres/A=Abs		1

Rounding on totals after summation.
(c) - indicates calculated results

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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 481285

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/13/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/13/2014	05/14/2014	11:58	769483	(SM9223)	Total Coliform Bacteria	P	P=Pres/A=Abs		1
		SM2330B - Hydroxide as OH, Calculated							
	05/17/2014	13:07		(SM2330B)	Hydroxide as OH Calculated	ND	mg/L	2	1
		SM 2330B - pH of CaCO3 saturation(60C)							
	05/15/2014	10:03		(SM 2330B)	pH of CaCO3 saturation(60C)	7.4	Units	0.1	1
		EPA 200.8 - Uranium by ICPMS as pCi/L							
	05/14/2014	14:23		(EPA 200.8)	Uranium by ICPMS as pCi/L	0.87	pCi/L	0.7	1
		SM4500-CO2-D - Carbon Dioxide,Free(25C)-Calc.							
	05/17/2014	13:07		(SM4500-CO2-D)	Carbon Dioxide,Free(25C)-Calc.	4.1	mg/L	2	1
		SM 2330B - Langelier Index - 25 degree							
	05/17/2014	13:07		(SM 2330B)	Langelier Index - 25 degree	-0.23	None		1
		SM2330B - Carbonate as CO3, Calculated							
	05/17/2014	13:07		(SM2330B)	Carbonate as CO3, Calculated	ND	mg/L	2	1
		SM 2340B - Total Hardness as CaCO3 by ICP							
	05/15/2014	10:03		(SM 2340B)	Total Hardness as CaCO3 by ICP (calc)	120	mg/L	3	1
		SM 1030E - Anion Sum - Calculated							
	05/17/2014	12:45		(SM 1030E)	Anion Sum - Calculated	3.8	meq/L	0.001	1
		SM 1030E - Cation Sum - Calculated							
	05/15/2014	10:03		(SM 1030E)	Cation Sum - Calculated	4.1	meq/L	0.001	1
		SM 2330B - pH of CaCO3 saturation(25C)							
	05/17/2014	13:07		(SM 2330B)	pH of CaCO3 saturation(25C)	7.9	Units	0.1	1
		4500P-E/365.1 - Orthophosphate as PO4 (CAL)							
	05/19/2014	11:13		(4500P-E/365.1)	Orthophosphate as PO4	0.16	mg/L	0.031	1
		SM2330B - Bicarb.Alkalinity as HCO3,calc							
	05/17/2014	13:07		(SM2330B)	Bicarb.Alkalinity as HCO3calc	100	mg/L	2	1
		SM 2330 - Agressiveness Index-Calculated							
	05/17/2014	13:07		(SM 2330)	Agressiveness Index-Calculated	12	None	0.1	1
		EPA 505 - Organochlorine Pesticides/PCBs							
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Aldrin	ND	ug/L	0.01	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Chlordane	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Dieldrin	ND	ug/L	0.01	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Endrin	ND	ug/L	0.01	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Heptachlor	ND	ug/L	0.01	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.01	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.01	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Methoxychlor	ND	ug/L	0.05	1

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Laboratory Data
Report: 481285

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/13/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.08	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Total PCBs	ND	ug/L	0.1	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Toxaphene	ND	ug/L	0.5	1
5/19/2014	05/19/2014	18:15	771471	(EPA 505)	Tetrachlorometaxylene	111	%		1
	EPA 515.4 - Chlorophenoxy Herbicides								
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	2,4,5-T	ND	ug/L	0.2	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.2	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	2,4-D	ND	ug/L	0.1	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	2,4-DB	ND	ug/L	2	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.5	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Acifluorfen	ND	ug/L	0.2	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Bentazon	ND	ug/L	0.5	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Dalapon	ND	ug/L	1	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Dicamba	ND	ug/L	0.1	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Dichlorprop	ND	ug/L	0.5	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Dinoseb	ND	ug/L	0.2	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Pentachlorophenol	ND	ug/L	0.04	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Picloram	ND	ug/L	0.1	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.1	1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	108	%		1
5/21/2014	05/23/2014	03:26	772192	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	97	%		1
	EPA 551.1 - EDB/DBCP/HAN by EPA 551.1								
5/19/2014	05/20/2014	00:51	770819	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/19/2014	05/20/2014	00:51	770819	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
5/19/2014	05/20/2014	00:51	770819	(EPA 551.1)	1,2-Dibromopropane	99	%		1
	EPA 525.2 - Semivolatiles by GCMS								
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	2,4-Dinitrotoluene	ND	ug/L	0.1	1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	2,6-Dinitrotoluene	ND	ug/L	0.1	1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	4,4-DDD	ND	ug/L	0.1	1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	4,4-DDE	ND	ug/L	0.1	1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	4,4-DDT	ND	ug/L	0.1	1

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Samples Received on:
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5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Acenaphthene	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Acenaphthylene	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Acetochlor	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Alachlor	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Aldrin	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Alpha-BHC	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	alpha-Chlordane	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Anthracene	ND	ug/L	0.02	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Atrazine	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Benz(a)Anthracene	ND (LK)	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.02	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Benzo(b)Fluoranthene	ND	ug/L	0.02	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Benzo(g,h,i)Perylene	ND (LK)	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Benzo(k)Fluoranthene	ND (LK)	ug/L	0.02	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Beta-BHC	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Bromacil	ND	ug/L	0.2	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Butachlor	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Butylbenzylphthalate	ND	ug/L	0.5	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Caffeine by method 525mod	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Chlorobenzilate	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Chloroneb	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Chlorothalonil(Draconil,Bravo)	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Chlorpyrifos (Dursban)	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Chrysene	ND	ug/L	0.02	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Delta-BHC	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.6	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.6	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Diazinon (Qualitative)	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Dibenz(a,h)Anthracene	ND (LK)	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Dichlorvos (DDVP)	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Dieldrin	ND	ug/L	0.2	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Diethylphthalate	ND	ug/L	0.5	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Dimethoate	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Dimethylphthalate	ND	ug/L	0.5	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Di-n-Butylphthalate	ND	ug/L	1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Di-N-octylphthalate	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Endosulfan I (Alpha)	ND	ug/L	0.1	1

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Samples Received on:
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5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Endosulfan II (Beta)	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Endosulfan Sulfate	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Endrin	ND	ug/L	0.2	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Endrin Aldehyde	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	EPTC	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Fluoranthene	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Fluorene	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	gamma-Chlordane	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Heptachlor	ND	ug/L	0.03	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Heptachlor Epoxide (isomer B)	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Indeno(1,2,3,c,d)Pyrene	ND (LK)	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Isophorone	ND	ug/L	0.5	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Lindane	ND	ug/L	0.04	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Malathion	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Methoxychlor	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Metolachlor	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Metribuzin	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Molinate	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Naphthalene	ND	ug/L	0.3	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Parathion	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Pendimethalin	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Pentachlorophenol	ND	ug/L	1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Permethrin (mixed isomers)	ND (LE)	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Phenanthrene	ND	ug/L	0.04	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Propachlor	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Pyrene	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Simazine	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Terbacil	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Terbuthylazine	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.2	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	trans-Nonachlor	ND	ug/L	0.05	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Trifluralin	ND	ug/L	0.1	1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	105	%		1
5/23/2014	05/28/2014 20:52	773235	(EPA 525.2)	Acenaphthene-d10	72	%		1

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5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	Chrysene-d12	86	%		1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	Perylene-d12	92	%		1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	Phenanthrene-d10	74	%		1
5/23/2014	05/28/2014	20:52	773235	(EPA 525.2)	Triphenylphosphate	115	%		1
		EPA 548.1 - Endothall							
5/17/2014	05/21/2014	10:37	771224	(EPA 548.1)	Endothall	ND	ug/L	5	1
		EPA 1613B - 2,3,7,8-TCDD_Dioxin							
5/15/2014	05/24/2014	12:06	773093	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5	1
5/15/2014	05/24/2014	12:06	773093	(EPA 1613B)	C12-2,3,7,8-TCDD	78	%		1
		EPA 547 - Glyphosate							
	05/23/2014	15:25	771764	(EPA 547)	Glyphosate	ND	ug/L	6	1
		EPA 531.2 - Aldicarbs							
	05/19/2014	20:45	770692	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Baygon	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Carbaryl	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Methiocarb	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Methomyl	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.5	1
	05/19/2014	20:45	770692	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	101	%		1
		EPA 549.2 - Diquat and Paraquat							
5/19/2014	05/20/2014	13:34	771291	(EPA 549.2)	Diquat	ND	ug/L	0.4	1
5/19/2014	05/20/2014	13:34	771291	(EPA 549.2)	Paraquat	ND	ug/L	2	1
		EPA 218.6 - Hexavalent chromium(Dissolved)							
	05/14/2014	11:02	769835	(EPA 218.6)	Hexavalent chromium(Dissolved)	0.12	ug/L	0.02	1
		EPA 300.0 - Nitrate, Nitrite by EPA 300.0							
	05/13/2014	18:37	769644	(EPA 300.0)	Nitrate as Nitrogen by IC	1.0	mg/L	0.1	1
	05/13/2014	18:37	769644	(EPA 300.0)	Nitrate as NO3 (calc)	4.5	mg/L	0.44	1
	05/13/2014	18:37	769644	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.05	1
	05/13/2014	18:37	769644	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	1.0	mg/L	0.1	1
		EPA 300.0 - Chloride, Sulfate by EPA 300.0							
	05/13/2014	18:37	769651	(EPA 300.0)	Chloride	42	mg/L	1	1
	05/13/2014	18:37	769651	(EPA 300.0)	Sulfate	39	mg/L	0.5	1
		EPA 314.0 - Perchlorate							

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Laboratory Data
Report: 481285

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/13/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	05/15/2014	00:13	770166	(EPA 314.0)	Perchlorate	ND	ug/L	4	1
		EPA 900.0 - Gross Alpha/Beta Radiation							
6/5/2014	06/17/2014	15:58	776371	(EPA 900.0)	Beta, Gross	ND	pCi/L	3	1
6/5/2014	06/17/2014	15:58	776371	(EPA 900.0)	Beta, Min Detectable Activity	3.0	pCi/L		1
6/5/2014	06/17/2014	15:58	776371	(EPA 900.0)	Beta, Two Sigma Error	1.4	pCi/L		1
		Ra-226 GA - Radium 226							
5/22/2014	06/09/2014	18:36	773217	(Ra-226 GA)	Radium 226	ND	pCi/L	1	1
5/22/2014	06/09/2014	18:36	773217	(Ra-226 GA)	Radium 226 Min Detect Activity	0.43	pCi/L		1
5/22/2014	06/09/2014	18:36	773217	(Ra-226 GA)	Radium 226 Two Sigma Error	0.24	pCi/L		1
		RA-228 GA - Radium 228							
5/22/2014	06/09/2014	18:36	773216	(RA-228 GA)	Radium 228	ND	pCi/L	1	1
5/22/2014	06/09/2014	18:36	773216	(RA-228 GA)	Radium 228 Min Detect Activity	1.0	pCi/L		1
5/22/2014	06/09/2014	18:36	773216	(RA-228 GA)	Radium 228 Two Sigma Error	0	pCi/L		1
		SM 7110C - Gross Alpha by Co-precipitation							
5/26/2014	05/30/2014	14:47	772969	(SM 7110C)	Alpha, Min Detectable Activity	3.0	pCi/L		1
5/26/2014	05/30/2014	14:47	772969	(SM 7110C)	Alpha, Two Sigma Error	0.20	pCi/L		1
5/26/2014	05/30/2014	14:47	772969	(SM 7110C)	Gross Alpha + adjusted error	ND	pCi/L	3	1
5/26/2014	05/30/2014	14:47	772969	(SM 7110C)	Gross Alpha by Coprecipitation	ND	pCi/L	3	1
		EPA 906.0 - Total Tritium (Sub)							
	06/07/2014	04:19		(EPA 906.0)	Tritium	<400	pCi/L	400	1
	06/07/2014	04:19		(EPA 906.0)	Tritium, MDA	400	pCi/L		1
	06/07/2014	04:19		(EPA 906.0)	Tritium, Two Sigma Error	119	pCi/L		1
		EPA 524.2 - Volatile Organics by GCMS							
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1

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5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Dichlorodifluoromethane	ND (LK)	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:24	772268	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1

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5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	1,2-Dichloroethane-d4	108	%		1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	4-Bromofluorobenzene	101	%		1
5/27/2014	05/27/2014	22:24	772268	(EPA 524.2)	Toluene-d8	94	%		1
		SM4500CN-F - Cyanide							
	05/19/2014	12:58	770521	(SM4500CN-F)	Cyanide	ND	mg/L	0.025	1
		SM 2150B - Odor at 60 C (TON)							
	05/14/2014	11:58	770122	(SM 2150B)	Odor at 60 C (TON)	ND	TON	1	1
		SM 4500F-C - Fluoride							
	05/23/2014	13:01	771904	(SM 4500F-C)	Fluoride	0.54 (M1)	mg/L	0.05	1
		SM 2320B - Alkalinity in CaCO3 units							
	05/16/2014	17:10	770324	(SM 2320B)	Alkalinity in CaCO3 units	83	mg/L	2	1
		E160.1/SM2540C - Total Dissolved Solids (TDS)							
5/19/2014	05/19/2014	23:19	770604	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	270	mg/L	10	1
		SM4500-HB - PH (H3=past HT not compliant)							
	05/16/2014	17:10	770329	(SM4500-HB)	PH (H3=past HT not compliant)	7.6	Units	0.1	1
		SM 5540C/EPA 425.1 - Surfactants							
	05/14/2014	07:20	769619	(SM 5540C/EPA 425.1)	Surfactants	ND	mg/L	0.05	1
		EPA 180.1 - Turbidity							

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	05/14/2014	15:27	769656	(EPA 180.1)	Turbidity	0.14	NTU	0.05	1
		SM2510B - Specific Conductance							
	05/16/2014	17:10	770334	(SM2510B)	Specific Conductance, 25 C	420	umho/cm	2	1
		SM 2120B - Apparent Color							
	05/14/2014	16:18	770495	(SM 2120B)	Apparent Color	ND	ACU	3	1
		4500P-E/365.1 - Orthophosphate as P (OPO4)							
	05/14/2014	12:40	769668	(4500P-E/365.1)	Orthophosphate as P	0.054	mg/L	0.01	1
Travel Blank (201405130750)							**Sampled on 05/13/2014 0800**		
		EPA 551.1 - EDB/DBCP/HAN by EPA 551.1							
5/19/2014	05/20/2014	02:36	770819	(EPA 551.1)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
5/19/2014	05/20/2014	02:36	770819	(EPA 551.1)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
5/19/2014	05/20/2014	02:36	770819	(EPA 551.1)	1,2-Dibromopropane	98	%		1
		EPA 524.2 - Volatile Organics by GCMS							
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014	22:46	772268	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1

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5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Dichlorodifluoromethane	ND (LK)	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Toluene	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 481285

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Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/13/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	1,2-Dichloroethane-d4	106	%		1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	4-Bromofluorobenzene	102	%		1
5/27/2014	05/27/2014 22:46	772268	(EPA 524.2)	Toluene-d8	94	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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QC Ref # 769377 - ICP Metals — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: WBH
201405130749	FW-04-055-Q2	Analyzed by: WBH

QC Ref # 769472 - ICPMS Metals — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: SXK
201405130749	FW-04-055-Q2	Analyzed by: SXK

QC Ref # 769483 - Coliform,Pres/Absence,18 Hours — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: PRC
201405130749	FW-04-055-Q2	Analyzed by: PRC

QC Ref # 769517 - ICPMS Metals — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: SXK
201405130749	FW-04-055-Q2	Analyzed by: SXK

QC Ref # 769619 - Surfactants — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: AF1
201405130749	FW-04-055-Q2	Analyzed by: AF1

QC Ref # 769644 - Nitrate, Nitrite by EPA 300.0 — **Analysis Date: 05/13/2014**

201405130749	FW-04-055-Q2	Analyzed by: CYP
201405130749	FW-04-055-Q2	Analyzed by: CYP

QC Ref # 769651 - Chloride, Sulfate by EPA 300.0 — **Analysis Date: 05/13/2014**

201405130749	FW-04-055-Q2	Analyzed by: CYP
201405130749	FW-04-055-Q2	Analyzed by: CYP

QC Ref # 769656 - Turbidity — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: MXT
201405130749	FW-04-055-Q2	Analyzed by: MXT

QC Ref # 769668 - Orthophosphate as P (OPO4) — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: AF1
201405130749	FW-04-055-Q2	Analyzed by: AF1

QC Ref # 769835 - Hexavalent chromium(Dissolved) — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: TLH
201405130749	FW-04-055-Q2	Analyzed by: TLH

QC Ref # 770122 - Odor at 60 C (TON) — **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: MIA8
201405130749	FW-04-055-Q2	Analyzed by: MIA8

QC Ref # 770166 - Perchlorate — **Analysis Date: 05/15/2014**

201405130749	FW-04-055-Q2	Analyzed by: LUPE
201405130749	FW-04-055-Q2	Analyzed by: LUPE

QC Ref # 770324 - Alkalinity in CaCO3 units — **Analysis Date: 05/16/2014**

201405130749	FW-04-055-Q2	Analyzed by: 6Q4
201405130749	FW-04-055-Q2	Analyzed by: 6Q4

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QC Ref # 770329 - PH (H3=past HT not compliant) **Analysis Date: 05/16/2014**

201405130749	FW-04-055-Q2	Analyzed by: 6Q4
201405130749	FW-04-055-Q2	Analyzed by: 6Q4

QC Ref # 770334 - Specific Conductance **Analysis Date: 05/16/2014**

201405130749	FW-04-055-Q2	Analyzed by: 6Q4
201405130749	FW-04-055-Q2	Analyzed by: 6Q4

QC Ref # 770495 - Apparent Color **Analysis Date: 05/14/2014**

201405130749	FW-04-055-Q2	Analyzed by: MIA8
201405130749	FW-04-055-Q2	Analyzed by: MIA8

QC Ref # 770521 - Cyanide **Analysis Date: 05/19/2014**

201405130749	FW-04-055-Q2	Analyzed by: JMO
201405130749	FW-04-055-Q2	Analyzed by: JMO

QC Ref # 770604 - Total Dissolved Solids (TDS) **Analysis Date: 05/19/2014**

201405130749	FW-04-055-Q2	Analyzed by: JRF
201405130749	FW-04-055-Q2	Analyzed by: JRF

QC Ref # 770692 - Aldicarbs **Analysis Date: 05/19/2014**

201405130749	FW-04-055-Q2	Analyzed by: XWO
201405130749	FW-04-055-Q2	Analyzed by: XWO

QC Ref # 770819 - EDB/DBCP/HAN by EPA 551.1 **Analysis Date: 05/20/2014**

201405130749	FW-04-055-Q2	Analyzed by: FAM
201405130749	FW-04-055-Q2	Analyzed by: FAM
201405130750	Travel Blank	Analyzed by: FAM
201405130750	Travel Blank	Analyzed by: FAM

QC Ref # 771224 - Endothall **Analysis Date: 05/21/2014**

201405130749	FW-04-055-Q2	Analyzed by: CRW
201405130749	FW-04-055-Q2	Analyzed by: CRW

QC Ref # 771291 - Diquat and Paraquat **Analysis Date: 05/20/2014**

201405130749	FW-04-055-Q2	Analyzed by: XWO
201405130749	FW-04-055-Q2	Analyzed by: XWO

QC Ref # 771317 - ICP Metals **Analysis Date: 05/21/2014**

201405130749	FW-04-055-Q2	Analyzed by: WBH
201405130749	FW-04-055-Q2	Analyzed by: WBH

QC Ref # 771471 - Organochlorine Pesticides/PCBs **Analysis Date: 05/19/2014**

201405130749	FW-04-055-Q2	Analyzed by: LRL
201405130749	FW-04-055-Q2	Analyzed by: LRL

QC Ref # 771764 - Glyphosate **Analysis Date: 05/23/2014**

201405130749	FW-04-055-Q2	Analyzed by: SZZ
201405130749	FW-04-055-Q2	Analyzed by: SZZ

QC Ref # 771767 - Asbestos by TEM - >10 microns **Analysis Date: 05/23/2014**

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201405130749	FW-04-055-Q2	Analyzed by: CJB
201405130749	FW-04-055-Q2	Analyzed by: CJB

QC Ref # 771904 - Fluoride **Analysis Date: 05/23/2014**

201405130749	FW-04-055-Q2	Analyzed by: 6Q4
201405130749	FW-04-055-Q2	Analyzed by: 6Q4

QC Ref # 772192 - Chlorophenoxy Herbicides **Analysis Date: 05/23/2014**

201405130749	FW-04-055-Q2	Analyzed by: DYM
201405130749	FW-04-055-Q2	Analyzed by: DYM

QC Ref # 772268 - Volatile Organics by GCMS **Analysis Date: 05/27/2014**

201405130749	FW-04-055-Q2	Analyzed by: KCP
201405130749	FW-04-055-Q2	Analyzed by: KCP
201405130750	Travel Blank	Analyzed by: KCP
201405130750	Travel Blank	Analyzed by: KCP

QC Ref # 772357 - Mercury Total **Analysis Date: 05/27/2014**

201405130749	FW-04-055-Q2	Analyzed by: AZS
201405130749	FW-04-055-Q2	Analyzed by: AZS

QC Ref # 772969 - Gross Alpha by Co-precipitation **Analysis Date: 05/30/2014**

201405130749	FW-04-055-Q2	Analyzed by: MAL
201405130749	FW-04-055-Q2	Analyzed by: MAL

QC Ref # 773093 - 2,3,7,8-TCDD_Dioxin **Analysis Date: 05/24/2014**

201405130749	FW-04-055-Q2	Analyzed by: PAC
201405130749	FW-04-055-Q2	Analyzed by: PAC

QC Ref # 773216 - Radium 228 **Analysis Date: 06/09/2014**

201405130749	FW-04-055-Q2	Analyzed by: WBH
201405130749	FW-04-055-Q2	Analyzed by: WBH

QC Ref # 773217 - Radium 226 **Analysis Date: 06/09/2014**

201405130749	FW-04-055-Q2	Analyzed by: WBH
201405130749	FW-04-055-Q2	Analyzed by: WBH

QC Ref # 773235 - Semivolatiles by GCMS **Analysis Date: 05/28/2014**

201405130749	FW-04-055-Q2	Analyzed by: JWC
201405130749	FW-04-055-Q2	Analyzed by: JWC

QC Ref # 776371 - Gross Alpha/Beta Radiation **Analysis Date: 06/17/2014**

201405130749	FW-04-055-Q2	Analyzed by: MAL
201405130749	FW-04-055-Q2	Analyzed by: MAL

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 769377 - ICP Metals by EPA 200.7						**Analysis Date: 05/14/2014**			
LCS1	Calcium Total ICAP		50	49.3	mg/L	99	(85-115)		
LCS2	Calcium Total ICAP		50	49.3	mg/L	99	(85-115)	20	0.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.06	mg/L	106	(50-150)		
MS_201405130749	Calcium Total ICAP	36	50	84.4	mg/L	96	(70-130)		
MS2_201405080627	Calcium Total ICAP	73	50	120	mg/L	95	(70-130)		
MSD_201405130749	Calcium Total ICAP	36	50	83.6	mg/L	95	(70-130)	20	0.95
MSD2_201405080627	Calcium Total ICAP	73	50	122	mg/L	99	(70-130)	20	1.6
LCS1	Dissolved Silica		21	22.1	mg/L	103	(85-115)		
LCS2	Dissolved Silica		21	22.4	mg/L	105	(85-115)	20	1.4
MBLK	Dissolved Silica			<0.211	mg/L				
MRL_CHK	Dissolved Silica		0.42	0.440	mg/L	104	(50-150)		
MS_201405130749	Dissolved Silica	25	21	22.4	mg/L	105	(70-130)		
MS2_201405080627	Dissolved Silica	8.8	21	32.0	mg/L	108	(70-130)		
MSD_201405130749	Dissolved Silica	25	21	21.8	mg/L	102	(70-130)	20	2.7
MSD2_201405080627	Dissolved Silica	8.8	21	31.9	mg/L	108	(70-130)	20	0.31
LCS1	Iron Total ICAP		5.0	4.87	mg/L	97	(85-115)		
LCS2	Iron Total ICAP		5.0	4.92	mg/L	98	(85-115)	20	1.0
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0222	mg/L	111	(50-150)		
MS_201405130749	Iron Total ICAP	0.022	5.0	5.12	mg/L	102	(70-130)		
MS2_201405080627	Iron Total ICAP	ND	5.0	5.13	mg/L	103	(70-130)		
MSD_201405130749	Iron Total ICAP	0.022	5.0	5.05	mg/L	101	(70-130)	20	1.4
MSD2_201405080627	Iron Total ICAP	ND	5.0	5.15	mg/L	103	(70-130)	20	0.39
LCS1	Magnesium Total ICAP		20	19.3	mg/L	97	(85-115)		
LCS2	Magnesium Total ICAP		20	19.7	mg/L	99	(85-115)	20	2.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.109	mg/L	109	(50-150)		
MS_201405130749	Magnesium Total ICAP	6.8	20	26.7	mg/L	99	(70-130)		
MS2_201405080627	Magnesium Total ICAP	26	20	44.6	mg/L	95	(70-130)		
MSD_201405130749	Magnesium Total ICAP	6.8	20	26.4	mg/L	98	(70-130)	20	1.1
MSD2_201405080627	Magnesium Total ICAP	26	20	44.8	mg/L	96	(70-130)	20	0.45
LCS1	Potassium Total ICAP		20	18.9	mg/L	95	(85-115)		
LCS2	Potassium Total ICAP		20	19.4	mg/L	97	(85-115)	20	2.6
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	1.07	mg/L	107	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405130749	Potassium Total ICAP	2.3	20	22.1	mg/L	99	(70-130)		
MS2_201405080627	Potassium Total ICAP	4.4	20	24.2	mg/L	99	(70-130)		
MSD_201405130749	Potassium Total ICAP	2.3	20	21.9	mg/L	98	(70-130)	20	0.91
MSD2_201405080627	Potassium Total ICAP	4.4	20	24.4	mg/L	100	(70-130)	20	0.82
LCS1	Sodium Total ICAP		50	47.3	mg/L	95	(85-115)		
LCS2	Sodium Total ICAP		50	48.6	mg/L	97	(85-115)	20	2.7
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.03	mg/L	103	(50-150)		
MS_201405130749	Sodium Total ICAP	39	50	87.6	mg/L	97	(70-130)		
MS2_201405080627	Sodium Total ICAP	89	50	136	mg/L	95	(70-130)		
MSD_201405130749	Sodium Total ICAP	39	50	86.9	mg/L	96	(70-130)	20	0.80
MSD2_201405080627	Sodium Total ICAP	89	50	137	mg/L	97	(70-130)	20	0.73
QC Ref# 769472 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/14/2014**			
LCS1	Aluminum Total ICAP/MS		200	220	ug/L	110	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	225	ug/L	112	(85-115)	20	2.3
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	20.0	ug/L	100	(50-150)		
MS_201405070531	Aluminum Total ICAP/MS	ND	200	215	ug/L	107	(70-130)		
MS2_201405070528	Aluminum Total ICAP/MS	ND	200	214	ug/L	107	(70-130)		
MSD_201405070531	Aluminum Total ICAP/MS	ND	200	220	ug/L	110	(70-130)	20	2.3
MSD2_201405070528	Aluminum Total ICAP/MS	ND	200	211	ug/L	106	(70-130)	20	1.4
LCS1	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)		
LCS2	Antimony Total ICAP/MS		50	52.5	ug/L	105	(85-115)	20	1.9
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201405070531	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)		
MS2_201405070528	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)		
MSD_201405070531	Antimony Total ICAP/MS	ND	50	52.8	ug/L	106	(70-130)	20	1.3
MSD2_201405070528	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	21.1	ug/L	105	(85-115)	20	0.48
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.915	ug/L	92	(50-150)		
MS_201405070531	Arsenic Total ICAP/MS	ND	20	21.5	ug/L	108	(70-130)		
MS2_201405070528	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	108	(70-130)		
MSD_201405070531	Arsenic Total ICAP/MS	ND	20	22.1	ug/L	111	(70-130)	20	2.8
MSD2_201405070528	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Barium Total ICAP/MS		100	109	ug/L	109	(85-115)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Barium Total ICAP/MS		100	110	ug/L	110	(85-115)	20	0.91
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201405070531	Barium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MS2_201405070528	Barium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201405070531	Barium Total ICAP/MS	ND	100	109	ug/L	109	(70-130)	20	2.8
MSD2_201405070528	Barium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	0.96
LCS1	Beryllium Total ICAP/MS		5.0	4.58	ug/L	92	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.27	ug/L	105	(85-115)	20	14
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201405070531	Beryllium Total ICAP/MS	ND	5.0	5.00	ug/L	100	(70-130)		
MS2_201405070528	Beryllium Total ICAP/MS	ND	5.0	4.18	ug/L	84	(70-130)		
MSD_201405070531	Beryllium Total ICAP/MS	ND	5.0	5.32	ug/L	106	(70-130)	20	6.2
MSD2_201405070528	Beryllium Total ICAP/MS	ND	5.0	4.53	ug/L	91	(70-130)	20	8.0
LCS1	Cadmium Total ICAP/MS		20	21.5	ug/L	107	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	22.0	ug/L	110	(85-115)	20	2.3
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.548	ug/L	110	(50-150)		
MS_201405070531	Cadmium Total ICAP/MS	ND	20	23.0	ug/L	115	(70-130)		
MS2_201405070528	Cadmium Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201405070531	Cadmium Total ICAP/MS	ND	20	23.1	ug/L	115	(70-130)	20	0.43
MSD2_201405070528	Cadmium Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	0.46
LCS1	Chromium Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Chromium Total ICAP/MS		100	111	ug/L	111	(85-115)	20	1.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201405070531	Chromium Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MS2_201405070528	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201405070531	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	0.97
MSD2_201405070528	Chromium Total ICAP/MS	ND	100	98.9	ug/L	99	(70-130)	20	5.0
LCS1	Cobalt Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	110	ug/L	111	(85-115)	20	1.8
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201405070531	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		
MS2_201405070528	Cobalt Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MSD_201405070531	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0

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Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201405070528	Cobalt Total ICAP/MS	ND	100	96.9	ug/L	97	(70-130)	20	2.1
LCS1	Copper Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Copper Total ICAP/MS		100	109	ug/L	109	(85-115)	20	1.9
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.22	ug/L	111	(50-150)		
MS_201405070531	Copper Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MS2_201405070528	Copper Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201405070531	Copper Total ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	0.94
MSD2_201405070528	Copper Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Lead Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.2	ug/L	106	(85-115)	20	0.95
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.520	ug/L	104	(50-150)		
MS_201405070531	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)		
MS2_201405070528	Lead Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MSD_201405070531	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	0.0
MSD2_201405070528	Lead Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Manganese Total ICAP/MS		50	53.2	ug/L	106	(85-115)		
LCS2	Manganese Total ICAP/MS		50	53.8	ug/L	108	(85-115)	20	1.1
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201405070531	Manganese Total ICAP/MS	ND	50	51.6	ug/L	103	(70-130)		
MS2_201405070528	Manganese Total ICAP/MS	ND	50	51.0	ug/L	102	(70-130)		
MSD_201405070531	Manganese Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)	20	0.96
MSD2_201405070528	Manganese Total ICAP/MS	ND	50	50.0	ug/L	100	(70-130)	20	2.0
LCS1	Nickel Total ICAP/MS		50	53.3	ug/L	107	(85-115)		
LCS2	Nickel Total ICAP/MS		50	53.7	ug/L	107	(85-115)	20	0.75
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.06	ug/L	101	(50-150)		
MS_201405070531	Nickel Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)		
MS2_201405070528	Nickel Total ICAP/MS	ND	50	51.3	ug/L	103	(70-130)		
MSD_201405070531	Nickel Total ICAP/MS	ND	50	53.7	ug/L	107	(70-130)	20	1.1
MSD2_201405070528	Nickel Total ICAP/MS	ND	50	50.4	ug/L	101	(70-130)	20	1.8
LCS1	Selenium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.7	ug/L	104	(85-115)	20	0.48
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.46	ug/L	109	(50-150)		
MS_201405070531	Selenium Total ICAP/MS	ND	20	23.4	ug/L	117	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201405070528	Selenium Total ICAP/MS	ND	20	23.6	ug/L	118	(70-130)		
MSD_201405070531	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)	20	0.86
MSD2_201405070528	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)	20	1.7
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.0	ug/L	105	(85-115)	20	0.96
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201405070531	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MS2_201405070528	Thallium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)		
MSD_201405070531	Thallium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	0.49
MSD2_201405070528	Thallium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)	20	0.99
LCS1	Uranium ICAP/MS		20	20.7	ug/L	104	(85-115)		
LCS2	Uranium ICAP/MS		20	20.9	ug/L	105	(85-115)	20	0.96
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201405070531	Uranium ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201405070528	Uranium ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MSD_201405070531	Uranium ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	0.0
MSD2_201405070528	Uranium ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	2.0
LCS1	Zinc Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.5	ug/L	107	(50-150)		
MS_201405070531	Zinc Total ICAP/MS	ND	100	116	ug/L	116	(70-130)		
MS2_201405070528	Zinc Total ICAP/MS	ND	100	115	ug/L	115	(70-130)		
MSD_201405070531	Zinc Total ICAP/MS	ND	100	117	ug/L	117	(70-130)	20	0.86
MSD2_201405070528	Zinc Total ICAP/MS	ND	100	113	ug/L	113	(70-130)	20	1.8
QC Ref# 769517 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/14/2014**			
LCS1	Silver Total ICAP/MS		50	49.2	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.7	ug/L	97	(85-115)	20	1.2
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.525	ug/L	105	(50-150)		
MS_201405160226	Silver Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MS2_201405160227	Silver Total ICAP/MS	ND	50	48.7	ug/L	97	(70-130)		
MSD_201405160226	Silver Total ICAP/MS	ND	50	44.3	ug/L	89	(70-130)	20	2.7
MSD2_201405160227	Silver Total ICAP/MS	ND	50	48.9	ug/L	98	(70-130)	20	0.41
QC Ref# 769619 - Surfactants by SM 5540C/EPA 425.1						**Analysis Date: 05/14/2014**			

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Surfactants		0.2	0.190	mg/L	95	(90-110)		
LCS2	Surfactants		0.2	0.215	mg/L	107	(90-110)	20	12
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0419	mg/L	84	(50-150)		
MS_201405130597	Surfactants	ND	0.2	0.210	mg/L	99	(80-120)		
MSD_201405130597	Surfactants	ND	0.2	0.201	mg/L	95	(80-120)	20	4.4
QC Ref# 769644 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						**Analysis Date: 05/13/2014**			
LCS1	Nitrate as Nitrogen by IC		2.5	2.46	mg/L	99	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.45	mg/L	98	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0464	mg/L	93	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0127	mg/L	102	(50-150)		
MS_201405120172	Nitrate as Nitrogen by IC	0.32	1.3	1.58	mg/L	101	(80-120)		
MS_201405120169	Nitrate as Nitrogen by IC	ND	1.3	1.26	mg/L	100	(80-120)		
MSD_201405120169	Nitrate as Nitrogen by IC	ND	1.3	1.25	mg/L	100	(80-120)	20	0.80
MSD_201405120172	Nitrate as Nitrogen by IC	0.32	1.3	1.60	mg/L	102	(80-120)	20	0.63
LCS1	Nitrite Nitrogen by IC		1.0	0.972	mg/L	97	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.978	mg/L	98	(90-110)	20	0.62
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0445	mg/L	89	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0113	mg/L	90	(50-150)		
MS_201405120172	Nitrite Nitrogen by IC	ND	0.5	0.481	mg/L	96	(80-120)		
MS_201405120169	Nitrite Nitrogen by IC	ND	0.5	0.481	mg/L	96	(80-120)		
MSD_201405120169	Nitrite Nitrogen by IC	ND	0.5	0.485	mg/L	97	(80-120)	20	0.83
MSD_201405120172	Nitrite Nitrogen by IC	ND	0.5	0.484	mg/L	97	(80-120)	20	0.62
QC Ref# 769651 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						**Analysis Date: 05/13/2014**			
LCS1	Chloride		25	25.7	mg/L	103	(90-110)		
LCS2	Chloride		25	25.6	mg/L	102	(90-110)	20	0.39
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.415	mg/L	83	(50-150)		
MS_201405140949	Chloride	21	13	34.4	mg/L	105	(80-120)		
MS_201405120169	Chloride	ND	13	13.0	mg/L	102	(80-120)		
MSD_201405120169	Chloride	ND	13	12.9	mg/L	102	(80-120)	20	0.77
MSD_201405140949	Chloride	21	13	34.6	mg/L	106	(80-120)	20	0.29
LCS1	Sulfate		50	50.2	mg/L	100	(90-110)		
LCS2	Sulfate		50	49.9	mg/L	100	(90-110)	20	0.60
MBLK	Sulfate			<0.25	mg/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Sulfate		1.0	0.969	mg/L	97	(50-150)		
MRLLW	Sulfate		0.25	0.264	mg/L	106	(50-150)		
MS_201405120169	Sulfate	ND	25	26.0	mg/L	103	(80-120)		
MS_201405140949	Sulfate	56	25	80.1	mg/L	98	(80-120)		
MSD_201405140949	Sulfate	56	25	80.4	mg/L	99	(80-120)	20	0.37
MSD_201405120169	Sulfate	ND	25	25.8	mg/L	102	(80-120)	20	0.77
QC Ref# 769656 - Turbidity by EPA 180.1						**Analysis Date: 05/14/2014**			
DUP1_201405120117	Turbidity	0.051		0.218	NTU		(0.000-20)		
DUP2_201405130868	Turbidity	1.4		1.44	NTU		(0.000-20)	20	0.69
LCS1	Turbidity		20	21.4	NTU	107	(90-110)		
LCS2	Turbidity		20	21.5	NTU	108	(90-110)	20	0.47
MBLK	Turbidity			<0.05	NTU				
MRL_CHK	Turbidity		0.05	0.0600	NTU	120	(50-150)		
QC Ref# 769668 - Orthophosphate as P (OPO4) by 4500P-E/365.1						**Analysis Date: 05/14/2014**			
LCS1	Orthophosphate as P		0.25	0.251	mg/L	100	(90-110)		
LCS2	Orthophosphate as P		0.25	0.245	mg/L	98	(90-110)	20	2.4
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.00800	mg/L	80	(50-150)		
MS_201405130749	Orthophosphate as P	0.054	0.5	0.538	mg/L	97	(90-110)		
MS_201405140700	Orthophosphate as P	0.16	0.5	0.627	mg/L	94	(90-110)		
MSD_201405140700	Orthophosphate as P	0.16	0.5	0.629	mg/L	94	(90-110)	20	0.32
MSD_201405130749	Orthophosphate as P	0.054	0.5	0.540	mg/L	97	(90-110)	20	0.37
QC Ref# 769835 - Hexavalent chromium(Dissolved) by EPA 218.6						**Analysis Date: 05/14/2014**			
LCS1	Hexavalent chromium(Dissolved)		2.0	1.96	ug/L	98	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	1.97	ug/L	98	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.020	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.02	0.0188	ug/L	94	(50-150)		
MS_201405130749	Hexavalent chromium(Dissolved)	0.12	2.0	2.11	ug/L	99	(90-110)		
MS_201405130868	Hexavalent chromium(Dissolved)	ND	2.0	1.99	ug/L	100	(90-110)		
MSD_201405130868	Hexavalent chromium(Dissolved)	ND	2.0	2.02	ug/L	101	(90-110)	20	1.5
MSD_201405130749	Hexavalent chromium(Dissolved)	0.12	2.0	2.14	ug/L	101	(90-110)	20	1.4
QC Ref# 770122 - Odor at 60 C (TON) by SM 2150B						**Analysis Date: 05/14/2014**			
DUP1_201405140270	Odor at 60 C (TON)	1.0		1.00	TON		(0.000-20)	20	0.0
DUP2_201405130868	Odor at 60 C (TON)	67		67.0	TON		(0.000-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				
QC Ref# 770166 - Perchlorate by EPA 314.0						**Analysis Date: 05/14/2014**			

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perchlorate		25	25.6	ug/L	102	(85-115)		
LCS2	Perchlorate		25	25.4	ug/L	102	(85-115)	15	0.78
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.05	ug/L	101	(75-125)		
MS_201405130347	Perchlorate	ND	25	27.4	ug/L	110	(80-120)		
MSD_201405130347	Perchlorate	ND	25	27.0	ug/L	108	(80-120)	15	1.1
QC Ref# 770324 - Alkalinity in CaCO3 units by SM 2320B						**Analysis Date: 05/16/2014**			
LCS1	Alkalinity in CaCO3 units		100	99.0	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	98.4	mg/L	98	(90-110)	20	0.61
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.73	mg/L	137	(50-150)		
MS_201405130603	Alkalinity in CaCO3 units	96	100	184	mg/L	88	(80-120)		
MS_201405130749	Alkalinity in CaCO3 units	83	100	171	mg/L	89	(80-120)		
MSD_201405130603	Alkalinity in CaCO3 units	96	100	185	mg/L	89	(80-120)	20	0.54
MSD_201405130749	Alkalinity in CaCO3 units	83	100	174	mg/L	91	(80-120)	20	1.7
QC Ref# 770329 - PH (H3=past HT not compliant) by SM4500-HB						**Analysis Date: 05/16/2014**			
DUP_201405130749	PH (H3=past HT not compliant)	7.6		7.69	Units		(0-20)	20	0.52
DUP_201405130603	PH (H3=past HT not compliant)	7.3		7.33	Units		(0-20)	20	0.41
LCS1	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)	20	0.0
QC Ref# 770334 - Specific Conductance by SM2510B						**Analysis Date: 05/16/2014**			
DUP_201405130749	Specific Conductance	420		420	umho/cm		(0.000-20)	20	0.12
DUP_201405130603	Specific Conductance	680		698	umho/cm		(0.000-20)	20	2.9
LCS1	Specific Conductance		1000	1010	umho/cm	101	(95-105)		
LCS2	Specific Conductance		1000	1020	umho/cm	102	(95-105)	20	0.99
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.5	1.50	umho/cm	103	(50-150)		
QC Ref# 770495 - Apparent Color by SM 2120B						**Analysis Date: 05/14/2014**			
DUP1_201405140270	Apparent Color	3.0		3.00	ACU		(0.000-20)	20	0.0
DUP2_201405130868	Apparent Color	5.0		5.00	ACU		(0.000-20)	20	0.0
MBLK	Apparent Color			<3	ACU				
QC Ref# 770521 - Cyanide by SM4500CN-F						**Analysis Date: 05/19/2014**			
LCS1	Cyanide		0.1	0.104	mg/L	104	(90-110)		
LCS2	Cyanide		0.1	0.103	mg/L	103	(90-110)	20	0.97
MBLK	Cyanide			<0.025	mg/L				
MRL_CHK	Cyanide		0.025	0.0266	mg/L	106	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405140355	Cyanide	ND	0.1	0.104	mg/L	103	(80-120)		
MS_201405130584	Cyanide	ND	0.1	0.104	mg/L	97	(80-120)		
MSD_201405130584	Cyanide	ND	0.1	0.106	mg/L	99	(80-120)	20	1.9
QC Ref# 770604 - Total Dissolved Solids (TDS) by E160.1/SM2540C						**Analysis Date: 05/19/2014**			
DUP_201405130807	Total Dissolved Solid (TDS)	300		310	mg/L		(0.000-20)	20	2.6
DUP_201405140484	Total Dissolved Solid (TDS)	290		290	mg/L		(0.000-20)	20	1.4
LCS1	Total Dissolved Solid (TDS)		175	170	mg/L	97	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	706	mg/L	101	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		
QC Ref# 770692 - Aldicarbs by EPA 531.2						**Analysis Date: 05/19/2014**			
CCCH	3-Hydroxycarbofuran		25	24.8	ug/L	99	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.1	ug/L	101	(70-130)		
LCS2	3-Hydroxycarbofuran			4.79	ug/L				
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.538	ug/L	108	(50-150)		
MS1_201405090599	3-Hydroxycarbofuran	ND	5.0	4.91	ug/L	98	(70-130)		
MSD1_201405090599	3-Hydroxycarbofuran	ND	5.0	4.87	ug/L	97	(70-130)	20	0.82
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		111	%	111	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		104	%	104	(70-130)		
LCS2	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		78.6	%	79	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		101	%	101	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		96.4	%	96	(70-130)		
MS1_201405090599	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		106	%	106	(70-130)		
MSD1_201405090599	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		111	%	111	(70-130)		
CCCH	Aldicarb (Temik)		25	19.9	ug/L	80	(70-130)		
CCCM	Aldicarb (Temik)		10	7.82	ug/L	78	(70-130)		
LCS2	Aldicarb (Temik)			4.95	ug/L				
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.547	ug/L	109	(50-150)		
MS1_201405090599	Aldicarb (Temik)	ND	5.0	5.54	ug/L	111	(70-130)		
MSD1_201405090599	Aldicarb (Temik)	ND	5.0	5.10	ug/L	102	(70-130)	20	8.3
CCCH	Aldicarb sulfone		25	25.0	ug/L	100	(70-130)		
CCCM	Aldicarb sulfone		10	9.60	ug/L	96	(70-130)		
LCS2	Aldicarb sulfone			4.44	ug/L				
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.548	ug/L	110	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201405090599	Aldicarb sulfone	ND	5.0	5.77	ug/L	115	(70-130)		
MSD1_201405090599	Aldicarb sulfone	ND	5.0	5.33	ug/L	107	(70-130)	20	7.9
CCCH	Aldicarb sulfoxide		25	23.0	ug/L	92	(70-130)		
CCCM	Aldicarb sulfoxide		10	8.66	ug/L	87	(70-130)		
LCS2	Aldicarb sulfoxide			4.84	ug/L				
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.517	ug/L	103	(50-150)		
MS1_201405090599	Aldicarb sulfoxide	ND	5.0	5.25	ug/L	105	(70-130)		
MSD1_201405090599	Aldicarb sulfoxide	ND	5.0	5.07	ug/L	101	(70-130)	20	3.5
CCCH	Baygon		25	24.4	ug/L	98	(70-130)		
CCCM	Baygon		10	9.72	ug/L	97	(70-130)		
LCS2	Baygon			4.62	ug/L				
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.585	ug/L	117	(50-150)		
MS1_201405090599	Baygon	ND	5.0	5.23	ug/L	105	(70-130)		
MSD1_201405090599	Baygon	ND	5.0	5.14	ug/L	103	(70-130)	20	1.7
CCCH	Carbaryl		25	25.7	ug/L	103	(70-130)		
CCCM	Carbaryl		10	10.3	ug/L	103	(70-130)		
LCS2	Carbaryl			5.41	ug/L				
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.520	ug/L	104	(50-150)		
MS1_201405090599	Carbaryl	ND	5.0	5.29	ug/L	106	(70-130)		
MSD1_201405090599	Carbaryl	ND	5.0	5.17	ug/L	103	(70-130)	20	2.3
CCCH	Carbofuran (Furadan)		25	25.2	ug/L	101	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.3	ug/L	103	(70-130)		
LCS2	Carbofuran (Furadan)			4.80	ug/L				
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.574	ug/L	115	(50-150)		
MS1_201405090599	Carbofuran (Furadan)	ND	5.0	4.76	ug/L	95	(70-130)		
MSD1_201405090599	Carbofuran (Furadan)	ND	5.0	5.11	ug/L	102	(70-130)	20	7.1
CCCH	Methiocarb		25	24.3	ug/L	97	(70-130)		
CCCM	Methiocarb		10	10.1	ug/L	101	(70-130)		
LCS2	Methiocarb			5.30	ug/L				
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.376	ug/L	75	(50-150)		
MS1_201405090599	Methiocarb	ND	5.0	5.36	ug/L	107	(70-130)		
MSD1_201405090599	Methiocarb	ND	5.0	5.57	ug/L	111	(70-130)	20	3.8
CCCH	Methomyl		25	23.6	ug/L	94	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Methomyl		10	9.64	ug/L	96	(70-130)		
LCS2	Methomyl			4.68	ug/L				
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.359	ug/L	72	(50-150)		
MS1_201405090599	Methomyl	ND	5.0	4.93	ug/L	99	(70-130)		
MSD1_201405090599	Methomyl	ND	5.0	5.14	ug/L	103	(70-130)	20	4.4
CCCH	Oxamyl (Vydate)		25	25.3	ug/L	101	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.97	ug/L	100	(70-130)		
LCS2	Oxamyl (Vydate)			4.54	ug/L				
MBLK	Oxamyl (Vydate)			<0.16	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.463	ug/L	93	(50-150)		
MS1_201405090599	Oxamyl (Vydate)	ND	5.0	5.00	ug/L	100	(70-130)		
MSD1_201405090599	Oxamyl (Vydate)	ND	5.0	5.06	ug/L	101	(70-130)	20	1.2
QC Ref# 770819 - EDB/DBCP/HAN by EPA 551.1 by EPA 551.1						**Analysis Date: 05/19/2014**			
CCC3	1,2-Dibromopropane (S)			91.6	%	92	(80-120)		
CCCM2	1,2-Dibromopropane (S)			97.3	%	97	(80-120)		
DUP1_201405160171	1,2-Dibromopropane (S)			95.6	%	96	(80-120)		
DUP2_201405150491	1,2-Dibromopropane (S)			90.1	%	90	(80-120)		
LCS2	1,2-Dibromopropane (S)			104	%	104	(80-120)		
MBLK	1,2-Dibromopropane (S)			95.5	%	95	(80-120)		
MRL_CHK	1,2-Dibromopropane (S)			91.9	%	92	(80-120)		
MS_201405150489	1,2-Dibromopropane (S)			96.4	%	96	(80-120)		
MS2_201405130749	1,2-Dibromopropane (S)			93.9	%	94	(80-120)		
CCC3	Dibromochloropropane (DBCP)		0.25	0.244	ug/L	98	(80-120)		
CCCM2	Dibromochloropropane (DBCP)		0.05	0.0517	ug/L	103	(80-120)		
DUP1_201405160171	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0-20)		
DUP2_201405150491	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0-20)		
LCS2	Dibromochloropropane (DBCP)		0.25	0.254	ug/L	102	(80-120)		
MBLK	Dibromochloropropane (DBCP)			<0.01	ug/L				
MRL_CHK	Dibromochloropropane (DBCP)		0.01	0.0114	ug/L	114	(50-150)		
MS_201405150489	Dibromochloropropane (DBCP)	ND	0.25	0.252	ug/L	101	(80-120)		
MS2_201405130749	Dibromochloropropane (DBCP)	ND	0.05	0.0501	ug/L	100	(80-120)		
CCC3	Ethylene Dibromide (EDB)		0.25	0.244	ug/L	98	(80-120)		
CCCM2	Ethylene Dibromide (EDB)		0.05	0.0538	ug/L	108	(80-120)		
DUP1_201405160171	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
DUP2_201405150491	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
LCS2	Ethylene Dibromide (EDB)		0.25	0.274	ug/L	109	(80-120)		
MBLK	Ethylene Dibromide (EDB)			<0.01	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Ethylene Dibromide (EDB)		0.01	0.0121	ug/L	121	(50-150)		
MS_201405150489	Ethylene Dibromide (EDB)	ND	0.25	0.252	ug/L	101	(80-120)		
MS2_201405130749	Ethylene Dibromide (EDB)	ND	0.05	0.0489	ug/L	98	(80-120)		
QC Ref# 771224 - Endothall by EPA 548.1						**Analysis Date: 05/21/2014**			
LCS1	Endothall		25	23.7	ug/L	95	(70-130)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5.0	6.10	ug/L	122	(50-150)		
MS_201405130749	Endothall	ND	25	23.3	ug/L	93	(70-130)		
MS_2ND_201405160353	Endothall	ND	25	22.4	ug/L	90	(70-130)		
MSD_201405130749	Endothall	ND	25	22.3	ug/L	89	(70-130)	30	4.4
QC Ref# 771291 - Diquat and Paraquat by EPA 549.2						**Analysis Date: 05/20/2014**			
CCCH	Diquat		10	10.5	ug/L	105	(80-120)		
CCCL	Diquat		0.4	0.396	ug/L	99	(80-120)		
CCCM	Diquat		4.0	4.04	ug/L	101	(80-120)		
LCS1	Diquat		5.0	4.29	ug/L	86	(70-130)		
LCS2	Diquat		5.0	4.08	ug/L	82	(70-130)	20	5.0
MBLK	Diquat			<0.2	ug/L				
MRL_CHK	Diquat		0.4	0.368	ug/L	92	(50-150)		
MS_201405150324	Diquat	ND	5.0	3.70	ug/L	74	(70-130)		
MS2_201405130628	Diquat	ND	5.0	4.28	ug/L	86	(70-130)		
MSD_201405150324	Diquat	ND	5.0	3.80	ug/L	76	(70-130)	20	2.7
CCCH	Paraquat		10	9.30	ug/L	93	(80-120)		
CCCL	Paraquat		2.0	2.10	ug/L	105	(80-120)		
CCCM	Paraquat		4.0	3.81	ug/L	95	(80-120)		
LCS1	Paraquat		5.0	4.09	ug/L	82	(70-130)		
LCS2	Paraquat		5.0	3.90	ug/L	78	(70-130)	20	4.8
MBLK	Paraquat			<1	ug/L				
MRL_CHK	Paraquat		2.0	1.74	ug/L	87	(50-150)		
MS_201405150324	Paraquat	ND	5.0	3.65	ug/L	73	(70-130)		
MS2_201405130628	Paraquat	ND	5.0	4.10	ug/L	82	(70-130)		
MSD_201405150324	Paraquat	ND	5.0	3.62	ug/L	72	(70-130)	20	0.83
QC Ref# 771317 - ICP Metals by EPA 200.7						**Analysis Date: 05/21/2014**			
LCS1	Calcium Total ICAP		50	48.9	mg/L	98	(85-115)		
LCS2	Calcium Total ICAP		50	49.4	mg/L	99	(85-115)	20	1.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.01	mg/L	101	(50-150)		
MS_201405210157	Calcium Total ICAP	9.4	50	57.1	mg/L	95	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201405190198	Calcium Total ICAP	ND	50	50.0	mg/L	100	(70-130)		
MSD_201405210157	Calcium Total ICAP	9.4	50	58.6	mg/L	98	(70-130)	20	2.6
MSD2_201405190198	Calcium Total ICAP	ND	50	48.8	mg/L	98	(70-130)	20	2.4
LCS1	Dissolved Silica		21	22.9	mg/L	107	(85-115)		
LCS2	Dissolved Silica		21	23.1	mg/L	108	(85-115)	20	0.87
MBLK	Dissolved Silica			<0.211	mg/L				
MRL_CHK	Dissolved Silica		0.42	0.447	mg/L	106	(50-150)		
MS_201405210157	Dissolved Silica	0.91	21	24.2	mg/L	109	(70-130)		
MS2_201405190198	Dissolved Silica	0.86	21	25.0	mg/L	113	(70-130)		
MSD_201405210157	Dissolved Silica	0.91	21	24.5	mg/L	110	(70-130)	20	1.2
MSD2_201405190198	Dissolved Silica	0.86	21	24.7	mg/L	111	(70-130)	20	1.2
LCS1	Iron Total ICAP		5.0	5.01	mg/L	100	(85-115)		
LCS2	Iron Total ICAP		5.0	5.06	mg/L	101	(85-115)	20	0.99
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0203	mg/L	102	(50-150)		
MS_201405210157	Iron Total ICAP	ND	5.0	4.94	mg/L	99	(70-130)		
MS2_201405190198	Iron Total ICAP	ND	5.0	5.12	mg/L	103	(70-130)		
MSD_201405210157	Iron Total ICAP	ND	5.0	5.02	mg/L	100	(70-130)	20	1.8
MSD2_201405190198	Iron Total ICAP	ND	5.0	5.00	mg/L	100	(70-130)	20	2.6
LCS1	Magnesium Total ICAP		20	20.4	mg/L	102	(85-115)		
LCS2	Magnesium Total ICAP		20	20.6	mg/L	103	(85-115)	20	0.98
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.106	mg/L	106	(50-150)		
MS_201405210157	Magnesium Total ICAP	3.4	20	23.4	mg/L	100	(70-130)		
MS2_201405190198	Magnesium Total ICAP	ND	20	20.9	mg/L	105	(70-130)		
MSD_201405210157	Magnesium Total ICAP	3.4	20	23.9	mg/L	103	(70-130)	20	2.1
MSD2_201405190198	Magnesium Total ICAP	ND	20	20.5	mg/L	102	(70-130)	20	1.9
LCS1	Potassium Total ICAP		20	19.6	mg/L	98	(85-115)		
LCS2	Potassium Total ICAP		20	19.8	mg/L	99	(85-115)	20	1.0
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.955	mg/L	96	(50-150)		
MS_201405210157	Potassium Total ICAP	1.2	20	20.6	mg/L	97	(70-130)		
MS2_201405190198	Potassium Total ICAP	ND	20	20.2	mg/L	100	(70-130)		
MSD_201405210157	Potassium Total ICAP	1.2	20	21.1	mg/L	99	(70-130)	20	2.4
MSD2_201405190198	Potassium Total ICAP	ND	20	20.0	mg/L	99	(70-130)	20	1
LCS1	Sodium Total ICAP		50	48.9	mg/L	98	(85-115)		
LCS2	Sodium Total ICAP		50	49.4	mg/L	99	(85-115)	20	1.0
MBLK	Sodium Total ICAP			<0.5	mg/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Sodium Total ICAP		1.0	1.01	mg/L	101	(50-150)		
MS_201405210157	Sodium Total ICAP	44	50	90.6	mg/L	93	(70-130)		
MS2_201405190198	Sodium Total ICAP	1.9	50	50.8	mg/L	98	(70-130)		
MSD_201405210157	Sodium Total ICAP	44	50	93.1	mg/L	98	(70-130)	20	2.7
MSD2_201405190198	Sodium Total ICAP	1.9	50	49.6	mg/L	95	(70-130)	20	2.4
QC Ref# 771471 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 05/19/2014**			
CCCH	Alachlor (Alanex)		1.0	1.04	ug/L	104	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.03	ug/L	103	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.109	ug/L	109	(50-150)		
MS1_201405130749	Alachlor (Alanex)	ND	0.2	0.209	ug/L	105	(65-135)		
MS2_201405140487	Alachlor (Alanex)	ND	1.0	0.987	ug/L	99	(65-135)		
CCCH	Aldrin		0.1	0.109	ug/L	109	(70-130)		
CCCH	Aldrin		0.1	0.113	ug/L	113	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0108	ug/L	108	(50-150)		
MS1_201405130749	Aldrin	ND	0.02	0.0221	ug/L	111	(65-135)		
MS2_201405140487	Aldrin	ND	0.1	0.117	ug/L	117	(65-135)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.0999	ug/L	100	(70-130)		
CCCH	Dieldrin		0.1	0.102	ug/L	102	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.00980	ug/L	98	(50-150)		
MS1_201405130749	Dieldrin	ND	0.02	0.0196	ug/L	98	(65-135)		
MS2_201405140487	Dieldrin	ND	0.1	0.101	ug/L	101	(65-135)		
CCCH	Endrin		0.1	0.0983	ug/L	98	(70-130)		
CCCH	Endrin		0.1	0.0986	ug/L	99	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0121	ug/L	121	(50-150)		
MS1_201405130749	Endrin	ND	0.02	0.0221	ug/L	111	(65-135)		
MS2_201405140487	Endrin	ND	0.1	0.101	ug/L	101	(65-135)		
CCCH	Heptachlor		0.1	0.0994	ug/L	99	(70-130)		
CCCH	Heptachlor		0.1	0.0985	ug/L	99	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00970	ug/L	97	(50-150)		
MS1_201405130749	Heptachlor	ND	0.02	0.0203	ug/L	100	(65-135)		
MS2_201405140487	Heptachlor	ND	0.1	0.105	ug/L	105	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.103	ug/L	103	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Heptachlor Epoxide		0.1	0.101	ug/L	101	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0122	ug/L	122	(50-150)		
MS1_201405130749	Heptachlor Epoxide	ND	0.02	0.0171	ug/L	86	(65-135)		
MS2_201405140487	Heptachlor Epoxide	ND	0.1	0.103	ug/L	103	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.0994	ug/L	99	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.101	ug/L	101	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0117	ug/L	117	(50-150)		
MS1_201405130749	Lindane (gamma-BHC)	ND	0.02	0.0217	ug/L	109	(65-135)		
MS2_201405140487	Lindane (gamma-BHC)	ND	0.1	0.102	ug/L	101	(65-135)		
CCCH	Methoxychlor		0.5	0.557	ug/L	111	(70-130)		
CCCH	Methoxychlor		0.5	0.477	ug/L	95	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0445	ug/L	89	(50-150)		
MS1_201405130749	Methoxychlor	ND	0.1	0.118	ug/L	118	(65-135)		
MS2_201405140487	Methoxychlor	ND	0.5	0.570	ug/L	114	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			118	%	118	(70-130)		
CCCH	Tetrachlorometaxylene (S)			117	%	117	(70-130)		
MBLK	Tetrachlorometaxylene (S)			117	%	117	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			91.2	%	91	(70-130)		
MS1_201405130749	Tetrachlorometaxylene (S)			116	%	116	(70-130)		
MS2_201405140487	Tetrachlorometaxylene (S)			119	%	119	(70-130)		
MBLK	Total PCBs			<0.08	ug/L				
CCCH	Toxaphene		2.5	2.17	ug/L	87	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.438	ug/L	88	(50-150)		
MS1_201405130749	Toxaphene	ND	2.5	2.32	ug/L	93	(65-135)		
MS2_201405140487	Toxaphene		2.5	2.30	ug/L	92	(65-135)		

QC Ref# 771764 - Glyphosate by EPA 547 **Analysis Date: 05/23/2014**

Spike recovery is already corrected for native results.
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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Glyphosate		25	22.7	ug/L	91	(80-120)		
CCCM	Glyphosate		10	9.22	ug/L	92	(80-120)		
LCS1	Glyphosate		10	9.15	ug/L	92	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.61	ug/L	94	(50-150)		
MS_201405130749	Glyphosate	ND	10	9.72	ug/L	97	(70-130)		
MS2_201405130702	Glyphosate	ND	10	9.75	ug/L	98	(70-130)		
MSD_201405130749	Glyphosate	ND	10	9.08	ug/L	91	(70-130)	20	6.8
QC Ref# 771904 - Fluoride by SM 4500F-C						**Analysis Date: 05/23/2014**			
LCS1	Fluoride		1.0	0.927	mg/L	93	(81-116)		
LCS2	Fluoride		1.0	1.10	mg/L	110	(81-116)	20	17
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0522	mg/L	104	(50-150)		
MS_201405130749	Fluoride	0.54	1.0	1.76	mg/L	**121**	(80-120)		
MSD_201405130749	Fluoride	0.54	1.0	1.73	mg/L	119	(80-120)	20	1.7
QC Ref# 772192 - Chlorophenoxy Herbicides by EPA 515.4						**Analysis Date: 05/22/2014**			
CCCH	2,4,5-T		4.0	4.19	ug/L	105	(70-130)		
CCCM	2,4,5-T		1.0	1.08	ug/L	108	(70-130)		
LCS1	2,4,5-T		3.0	2.99	ug/L	100	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.139	ug/L	69	(50-150)		
MS1_201405130749	2,4,5-T	ND	3.0	3.54	ug/L	118	(70-130)		
MSD1_201405130749	2,4,5-T	ND	3.0	3.64	ug/L	121	(70-130)	30	2.8
CCCH	2,4,5-TP (Silvex)		4.0	4.11	ug/L	103	(70-130)		
CCCM	2,4,5-TP (Silvex)		1.0	1.01	ug/L	101	(70-130)		
LCS1	2,4,5-TP (Silvex)		3.0	2.82	ug/L	94	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.207	ug/L	104	(50-150)		
MS1_201405130749	2,4,5-TP (Silvex)	ND	3.0	3.35	ug/L	111	(70-130)		
MSD1_201405130749	2,4,5-TP (Silvex)	ND	3.0	3.41	ug/L	113	(70-130)	30	1.8
CCCH	2,4-D		2.0	2.14	ug/L	107	(70-130)		
CCCM	2,4-D		0.5	0.470	ug/L	94	(70-130)		
LCS1	2,4-D		1.5	1.48	ug/L	99	(70-130)		
MBLK	2,4-D			<0.033	ug/L				
MRL_CHK	2,4-D		0.1	0.0896	ug/L	90	(50-150)		
MS1_201405130749	2,4-D	ND	1.5	1.70	ug/L	113	(70-130)		
MSD1_201405130749	2,4-D	ND	1.5	1.72	ug/L	115	(70-130)	30	1.8

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	2,4-DB		40	41.2	ug/L	103	(70-130)		
CCCM	2,4-DB		10	9.79	ug/L	98	(70-130)		
LCS1	2,4-DB		30	28.2	ug/L	94	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2.0	1.91	ug/L	96	(50-150)		
MS1_201405130749	2,4-DB	ND	30	33.6	ug/L	112	(70-130)		
MSD1_201405130749	2,4-DB	ND	30	34.9	ug/L	116	(70-130)	30	3.8
CCCH	2,4-Dichlorophenyl acetic acid (S)			105	%	105	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			102	%	102	(70-130)		
LCS1	2,4-Dichlorophenyl acetic acid (S)			93.3	%	93	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			100	%	100	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			97.8	%	98	(70-130)		
MS1_201405130749	2,4-Dichlorophenyl acetic acid (S)			119	%	119	(70-130)		
MSD1_201405130749	2,4-Dichlorophenyl acetic acid (S)			122	%	122	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	10.2	ug/L	102	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.47	ug/L	99	(70-130)		
LCS1	3,5-Dichlorobenzoic acid		7.5	7.26	ug/L	97	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.377	ug/L	75	(50-150)		
MS1_201405130749	3,5-Dichlorobenzoic acid	ND	7.5	7.78	ug/L	103	(70-130)		
MSD1_201405130749	3,5-Dichlorobenzoic acid	ND	7.5	7.87	ug/L	104	(70-130)	30	1.1
CCCH	4,4-Dibromooctafluorobiphenyl (I)			96.9	%	97	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			104	%	104	(50-150)		
LCS1	4,4-Dibromooctafluorobiphenyl (I)			96.7	%	97	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			107	%	107	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			104	%	104	(50-150)		
MS1_201405130749	4,4-Dibromooctafluorobiphenyl (I)			79.4	%	79	(50-150)		
MSD1_201405130749	4,4-Dibromooctafluorobiphenyl (I)			78.4	%	78	(50-150)		
CCCH	Acifluorfen		4.0	4.16	ug/L	104	(70-130)		
CCCM	Acifluorfen		1.0	1.02	ug/L	102	(70-130)		
LCS1	Acifluorfen		3.0	2.91	ug/L	97	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.200	ug/L	100	(50-150)		
MS1_201405130749	Acifluorfen	ND	3.0	3.47	ug/L	116	(70-130)		
MSD1_201405130749	Acifluorfen	ND	3.0	3.55	ug/L	118	(70-130)	30	2.3
CCCH	Bentazon		10	10.8	ug/L	108	(70-130)		
CCCM	Bentazon		2.5	2.46	ug/L	98	(70-130)		
LCS1	Bentazon		7.5	7.13	ug/L	95	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.452	ug/L	91	(50-150)		
MS1_201405130749	Bentazon	ND	7.5	8.93	ug/L	119	(70-130)		
MSD1_201405130749	Bentazon	ND	7.5	8.93	ug/L	119	(70-130)	30	0.0
CCCH	Dalapon		20	20.3	ug/L	102	(70-130)		
CCCM	Dalapon		5.0	5.29	ug/L	106	(70-130)		
LCS1	Dalapon		15	14.8	ug/L	99	(70-130)		
MBLK	Dalapon			<0.333	ug/L				
MRL_CHK	Dalapon		1.0	0.900	ug/L	90	(50-150)		
MS1_201405130749	Dalapon	ND	15	17.9	ug/L	120	(70-130)		
MSD1_201405130749	Dalapon	ND	15	17.9	ug/L	119	(70-130)	30	0.0
CCCH	Dicamba		2.0	2.06	ug/L	103	(70-130)		
CCCM	Dicamba		0.5	0.534	ug/L	107	(70-130)		
LCS1	Dicamba		1.5	1.60	ug/L	107	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.127	ug/L	127	(50-150)		
MS1_201405130749	Dicamba	ND	1.5	1.59	ug/L	106	(70-130)		
MSD1_201405130749	Dicamba	ND	1.5	1.58	ug/L	106	(70-130)	30	0.63
CCCH	Dichlorprop		10	10.2	ug/L	103	(70-130)		
CCCM	Dichlorprop		2.5	2.28	ug/L	91	(70-130)		
LCS1	Dichlorprop		7.5	7.58	ug/L	101	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.422	ug/L	84	(50-150)		
MS1_201405130749	Dichlorprop	ND	7.5	8.31	ug/L	111	(70-130)		
MSD1_201405130749	Dichlorprop	ND	7.5	8.18	ug/L	109	(70-130)	30	1.6
CCCH	Dinoseb		4.0	4.10	ug/L	102	(70-130)		
CCCM	Dinoseb		1.0	0.997	ug/L	100	(70-130)		
LCS1	Dinoseb		3.0	2.77	ug/L	92	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.174	ug/L	87	(50-150)		
MS1_201405130749	Dinoseb	ND	3.0	3.23	ug/L	108	(70-130)		
MSD1_201405130749	Dinoseb	ND	3.0	3.28	ug/L	109	(70-130)	30	1.5
CCCH	Pentachlorophenol		0.8	0.834	ug/L	104	(70-130)		
CCCM	Pentachlorophenol		0.2	0.199	ug/L	99	(70-130)		
LCS1	Pentachlorophenol		0.6	0.601	ug/L	100	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0367	ug/L	92	(50-150)		
MS1_201405130749	Pentachlorophenol	ND	0.6	0.714	ug/L	119	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201405130749	Pentachlorophenol	ND	0.6	0.724	ug/L	121	(70-130)	30	1.4
CCCH	Picloram		2.0	2.06	ug/L	103	(70-130)		
CCCM	Picloram		0.5	0.531	ug/L	106	(70-130)		
LCS1	Picloram		1.5	1.53	ug/L	102	(70-130)		
MBLK	Picloram			<0.033	ug/L				
MRL_CHK	Picloram		0.1	0.0739	ug/L	74	(50-150)		
MS1_201405130749	Picloram	ND	1.5	1.78	ug/L	119	(70-130)		
MSD1_201405130749	Picloram	ND	1.5	1.78	ug/L	118	(70-130)	30	0.56
CCCH	Tot DCPA Mono&Diacid Degradate		2.0	2.08	ug/L	104	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.498	ug/L	100	(70-130)		
LCS1	Tot DCPA Mono&Diacid Degradate		1.5	1.91	ug/L	128	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.115	ug/L	115	(50-150)		
MS1_201405130749	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.73	ug/L	115	(70-130)		
MSD1_201405130749	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.77	ug/L	118	(70-130)	30	2.3
QC Ref# 772268 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 05/27/2014**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.10	ug/L	102	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.24	ug/L	105	(70-130)	20	2.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	5.41	ug/L	108	(70-130)	20	8.7
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.59	ug/L	92	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.83	ug/L	97	(70-130)	20	5.1
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	4.90	ug/L	98	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.33	ug/L	107	(70-130)	20	8.4
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.07	ug/L	101	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.61	ug/L	112	(70-130)	20	10
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.79	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.44	ug/L	109	(70-130)	20	13

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 481285

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.38	ug/L	108	(70-130)	20	6.7
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.33	ug/L	107	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.75	ug/L	115	(70-130)	20	7.6
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	4.81	ug/L	96	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.09	ug/L	102	(70-130)	20	5.7
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.30	ug/L	106	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.55	ug/L	111	(70-130)	20	4.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.82	ug/L	116	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	6.22	ug/L	124	(70-130)	20	6.6
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2-Dichloroethane		5.0	4.93	ug/L	99	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.42	ug/L	108	(70-130)	20	9.5
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			98.2	%	98	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.46	ug/L	109	(70-130)	20	10
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.55	ug/L	111	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.93	ug/L	119	(70-130)	20	6.6
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				

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Laboratory QC
Report: 481285

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3-Dichloropropane		5.0	4.91	ug/L	98	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.38	ug/L	108	(70-130)	20	9.1
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	2,2-Dichloropropane		5.0	5.52	ug/L	110	(70-130)		
LCS2	2,2-Dichloropropane		5.0	5.59	ug/L	112	(70-130)	20	1.3
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.600	ug/L	120	(50-150)		
LCS1	2-Butanone (MEK)		50	37.8	ug/L	76	(70-130)		
LCS2	2-Butanone (MEK)		50	39.9	ug/L	80	(70-130)	20	5.4
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	6.42	ug/L	128	(50-150)		
LCS1	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	47.9	ug/L	96	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	52.5	ug/L	105	(70-130)	20	9.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.43	ug/L	109	(50-150)		
LCS1	Benzene		5.0	4.99	ug/L	100	(70-130)		
LCS2	Benzene		5.0	5.41	ug/L	108	(70-130)	20	8.1
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromobenzene		5.0	5.05	ug/L	101	(70-130)		
LCS2	Bromobenzene		5.0	5.49	ug/L	110	(70-130)	20	8.3
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromochloromethane		5.0	4.89	ug/L	98	(70-130)		
LCS2	Bromochloromethane		5.0	5.77	ug/L	115	(70-130)	20	17
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromodichloromethane		5.0	4.27	ug/L	85	(70-130)		
LCS2	Bromodichloromethane		5.0	4.85	ug/L	97	(70-130)	20	13
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.400	ug/L	80	(50-150)		

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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromoethane		5.0	4.65	ug/L	93	(70-130)		
LCS2	Bromoethane		5.0	5.46	ug/L	109	(70-130)	20	16
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Bromoform		5.0	4.58	ug/L	92	(70-130)		
LCS2	Bromoform		5.0	4.80	ug/L	96	(70-130)	20	4.7
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.62	ug/L	112	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.75	ug/L	115	(70-130)	20	2.3
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.580	ug/L	116	(50-150)		
LCS1	Carbon disulfide		5.0	3.62	ug/L	72	(70-130)		
LCS2	Carbon disulfide		5.0	3.65	ug/L	73	(70-130)	20	0.83
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.340	ug/L	68	(50-150)		
LCS1	Carbon Tetrachloride		5.0	4.79	ug/L	96	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.07	ug/L	101	(70-130)	20	5.7
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.430	ug/L	86	(50-150)		
LCS1	Chlorobenzene		5.0	5.08	ug/L	102	(70-130)		
LCS2	Chlorobenzene		5.0	5.55	ug/L	111	(70-130)	20	8.8
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	Chlorodibromomethane		5.0	4.30	ug/L	86	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.55	ug/L	91	(70-130)	20	5.7
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Chloroethane		5.0	5.86	ug/L	117	(70-130)		
LCS2	Chloroethane		5.0	5.79	ug/L	116	(70-130)	20	1.2
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.13	ug/L	103	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.46	ug/L	109	(70-130)	20	6.2
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	6.25	ug/L	125	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	6.40	ug/L	128	(70-130)	20	2.4

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.650	ug/L	130	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	4.87	ug/L	97	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.34	ug/L	107	(70-130)	20	9.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	4.94	ug/L	99	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.37	ug/L	107	(70-130)	20	8.3
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Dibromomethane		5.0	4.86	ug/L	97	(70-130)		
LCS2	Dibromomethane		5.0	5.36	ug/L	107	(70-130)	20	9.8
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	6.47	ug/L	129	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	6.87	ug/L	**137**	(70-130)	20	6.0
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Dichloromethane		5.0	4.58	ug/L	92	(70-130)		
LCS2	Dichloromethane		5.0	5.32	ug/L	106	(70-130)	20	15
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.650	ug/L	130	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.90	ug/L	98	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.08	ug/L	102	(70-130)	20	3.6
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.620	ug/L	124	(50-150)		
LCS1	Ethyl benzene		5.0	5.14	ug/L	103	(70-130)		
LCS2	Ethyl benzene		5.0	5.57	ug/L	111	(70-130)	20	8.0
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Hexachlorobutadiene		5.0	5.19	ug/L	104	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.60	ug/L	112	(70-130)	20	7.6
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Isopropylbenzene		5.0	5.48	ug/L	110	(70-130)		
LCS2	Isopropylbenzene		5.0	5.80	ug/L	116	(70-130)	20	5.7
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.470	ug/L	94	(50-150)		

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Laboratory QC
Report: 481285

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	m,p-Xylenes		10	10.6	ug/L	107	(70-130)		
LCS2	m,p-Xylenes		10	11.5	ug/L	115	(70-130)	20	7.2
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.01	ug/L	101	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.520	ug/L	104	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.57	ug/L	111	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.82	ug/L	116	(70-130)	20	4.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.75	ug/L	95	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.06	ug/L	101	(70-130)	20	6.3
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.640	ug/L	128	(50-150)		
LCS1	Naphthalene		5.0	5.24	ug/L	105	(70-130)		
LCS2	Naphthalene		5.0	5.79	ug/L	116	(70-130)	20	10
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Butylbenzene		5.0	5.61	ug/L	112	(70-130)		
LCS2	n-Butylbenzene		5.0	6.10	ug/L	122	(70-130)	20	8.4
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	n-Propylbenzene		5.0	5.88	ug/L	118	(70-130)		
LCS2	n-Propylbenzene		5.0	6.22	ug/L	124	(70-130)	20	5.6
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.41	ug/L	108	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.86	ug/L	117	(70-130)	20	8.0
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.16	ug/L	103	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.53	ug/L	111	(70-130)	20	6.9
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Xylene		5.0	4.97	ug/L	99	(70-130)		
LCS2	o-Xylene		5.0	5.51	ug/L	110	(70-130)	20	10
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.490	ug/L	98	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.51	ug/L	110	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	p-Chlorotoluene		5.0	5.79	ug/L	116	(70-130)	20	5.0
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.70	ug/L	114	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.83	ug/L	117	(70-130)	20	2.3
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.63	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.98	ug/L	120	(70-130)	20	6.0
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.68	ug/L	114	(70-130)	20	7.3
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Styrene		5.0	5.21	ug/L	104	(70-130)		
LCS2	Styrene		5.0	5.61	ug/L	112	(70-130)	20	7.4
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.500	ug/L	100	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.55	ug/L	91	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.88	ug/L	98	(70-130)	20	7.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.500	ug/L	100	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.14	ug/L	103	(70-130)	20	4.0
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.70	ug/L	114	(70-130)	20	8.6
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	4.96	ug/L	99	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.39	ug/L	108	(70-130)	20	8.3
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Toluene		5.0	5.07	ug/L	101	(70-130)		
LCS2	Toluene		5.0	5.49	ug/L	110	(70-130)	20	8.0
MBLK	Toluene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Toluene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			98.8	%	99	(70-130)		
MRL_CHK	Toluene-d8 (S)			103	%	103	(70-130)		
MRLLW	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.35	ug/L	87	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.13	ug/L	103	(70-130)	20	17
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.610	ug/L	122	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.00	ug/L	100	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.38	ug/L	108	(70-130)	20	7.3
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.620	ug/L	124	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	5.15	ug/L	103	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.41	ug/L	108	(70-130)	20	4.9
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorofluoromethane		5.0	5.25	ug/L	105	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.45	ug/L	109	(70-130)	20	3.7
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.93	ug/L	99	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.37	ug/L	107	(70-130)	20	8.5
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.560	ug/L	112	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.91	ug/L	118	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	6.03	ug/L	121	(70-130)	20	2.0
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.630	ug/L	126	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.300	ug/L	120	(50-150)		
QC Ref# 772357 - Mercury Total by EPA 245.1						**Analysis Date: 05/27/2014**			
LCS1	Mercury		1.5	1.65	ug/L	110	(85-115)		
LCS2	Mercury		1.5	1.65	ug/L	110	(85-115)	20	0.0
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.233	ug/L	117	(50-150)		
MS_201405160353	Mercury	ND	1.5	1.62	ug/L	107	(70-130)		
MS_201405130536	Mercury	ND	1.5	1.64	ug/L	109	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405160353	Mercury	ND	1.5	1.58	ug/L	105	(70-130)	20	2.5
MSD_201405130536	Mercury	ND	1.5	1.69	ug/L	111	(70-130)	20	2.4
QC Ref# 772969 - Gross Alpha by Co-precipitation by SM 7110C						**Analysis Date: 05/28/2014**			
LCS1	Gross Alpha by Coprecipitation		9.7	8.34	pCi/L	86	(80-120)		
LCS2	Gross Alpha by Coprecipitation		9.7	9.22	pCi/L	95	(80-120)	20	10
MBLK	Gross Alpha by Coprecipitation			<3	pCi/L				
MS_201405070279	Gross Alpha by Coprecipitation	ND	19	16.5	pCi/L	85	(70-130)		
QC Ref# 773093 - 2,3,7,8-TCDD_Dioxin by EPA 1613B						**Analysis Date: 05/23/2014**			
LCS1	2,3,7,8-TCDD		200	181	pg/L	90	(73-146)		
LCS2	2,3,7,8-TCDD		200	182	pg/L	91	(73-146)	20	0.55
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5.0	5.60	pg/L	112	(50-150)		
MS_201405080378	2,3,7,8-TCDD	ND	200	181	pg/L	90	(73-146)		
MS_201405080384	2,3,7,8-TCDD	ND	200	182	pg/L	91	(73-146)		
LCS1	C12-2,3,7,8-TCDD (S)			73.9	%	74	(25-141)		
LCS2	C12-2,3,7,8-TCDD (S)			64.4	%	64	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			74.7	%	75	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)			67.7	%	68	(31-137)		
MS_201405080378	C12-2,3,7,8-TCDD (S)			77.5	%	78	(25-141)		
MS_201405080384	C12-2,3,7,8-TCDD (S)			64.6	%	65	(25-141)		
QC Ref# 773216 - Radium 228 by RA-228 GA						**Analysis Date: 06/06/2014**			
LCS1	Radium 228		10	9.78	pCi/L	95	(80-120)		
LCS2	Radium 228		10	8.91	pCi/L	87	(80-120)	20	9.3
MBLK	Radium 228			<1	pCi/L				
MRL_CHK	Radium 228		3.1	2.97	pCi/L	97	(50-150)		
MS_201405150328	Radium 228	ND	10	8.75	pCi/L	85	(70-130)		
QC Ref# 773217 - Radium 226 by Ra-226 GA						**Analysis Date: 06/06/2014**			
LCS1	Radium 226		10	9.04	pCi/L	91	(80-120)		
LCS2	Radium 226		10	9.09	pCi/L	91	(80-120)	20	0.44
MBLK	Radium 226			<1	pCi/L				
MRL_CHK	Radium 226		3.0	2.62	pCi/L	88	(50-150)		
MS_201405150328	Radium 226	ND	10	7.85	pCi/L	75	(70-130)		
QC Ref# 773235 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 05/28/2014**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			99.9	%	100	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			99.7	%	100	(70-130)		
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			101	%	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			103	%	103	(70-130)		
MS_201405130702	1,3-Dimethyl-2-nitrobenzene (S)			97.8	%	98	(70-130)		
MSD_201405130702	1,3-Dimethyl-2-nitrobenzene (S)			98.0	%	98	(70-130)		
LCS1	2,4-Dinitrotoluene		2.0	1.80	ug/L	90	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	1.77	ug/L	88	(70-130)	20	1.7
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.117	ug/L	117	(50-150)		
MS_201405130702	2,4-Dinitrotoluene	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405130702	2,4-Dinitrotoluene	ND	2.0	1.79	ug/L	90	(70-130)	20	8.6
LCS1	2,6-Dinitrotoluene		2.0	1.85	ug/L	93	(70-130)		
LCS2	2,6-Dinitrotoluene		2.0	1.80	ug/L	90	(70-130)	20	2.7
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.117	ug/L	117	(50-150)		
MS_201405130702	2,6-Dinitrotoluene	ND	2.0	1.85	ug/L	93	(70-130)		
MSD_201405130702	2,6-Dinitrotoluene	ND	2.0	1.82	ug/L	91	(70-130)	20	1.1
LCS1	4,4-DDD		2.0	2.39	ug/L	119	(70-130)		
LCS2	4,4-DDD		2.0	2.44	ug/L	122	(70-130)	20	2.1
MBLK	4,4-DDD			<0.05	ug/L				
MRL_CHK	4,4-DDD		0.1	0.0900	ug/L	90	(50-150)		
MS_201405130702	4,4-DDD	ND	2.0	2.20	ug/L	110	(70-130)		
MSD_201405130702	4,4-DDD	ND	2.0	2.49	ug/L	124	(70-130)	20	12
LCS1	4,4-DDE		2.0	2.10	ug/L	105	(70-130)		
LCS2	4,4-DDE		2.0	2.17	ug/L	109	(70-130)	20	3.3
MBLK	4,4-DDE			<0.05	ug/L				
MRL_CHK	4,4-DDE		0.1	0.100	ug/L	100	(50-150)		
MS_201405130702	4,4-DDE	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405130702	4,4-DDE	ND	2.0	2.24	ug/L	112	(70-130)	20	11
LCS1	4,4-DDT		2.0	2.29	ug/L	114	(70-130)		
LCS2	4,4-DDT		2.0	2.38	ug/L	119	(70-130)	20	4.3
MBLK	4,4-DDT			<0.05	ug/L				
MRL_CHK	4,4-DDT		0.1	0.0780	ug/L	78	(50-150)		
MS_201405130702	4,4-DDT	ND	2.0	2.13	ug/L	107	(70-130)		
MSD_201405130702	4,4-DDT	ND	2.0	2.43	ug/L	122	(70-130)	20	13
LCS1	Acenaphthene		2.0	2.01	ug/L	100	(70-130)		
LCS2	Acenaphthene		2.0	1.99	ug/L	100	(70-130)	20	1.0
MBLK	Acenaphthene			<0.05	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0960	ug/L	96	(50-150)		
MS_201405130702	Acenaphthene	ND	2.0	2.03	ug/L	102	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405130702	Acenaphthene	ND	2.0	2.03	ug/L	101	(70-130)	20	0.0
LCS1	Acenaphthene-d10 (I)			77.5	%	78	(50-150)		
LCS2	Acenaphthene-d10 (I)			77.8	%	78	(50-150)		
MBLK	Acenaphthene-d10 (I)			80.8	%	81	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			81.2	%	81	(50-150)		
MS_201405130702	Acenaphthene-d10 (I)			85.3	%	85	(50-150)		
MSD_201405130702	Acenaphthene-d10 (I)			73.4	%	73	(50-150)		
LCS1	Acenaphthylene		2.0	2.02	ug/L	101	(70-130)		
LCS2	Acenaphthylene		2.0	2.04	ug/L	102	(70-130)	20	0.99
MBLK	Acenaphthylene			<0.05	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0870	ug/L	87	(50-150)		
MS_201405130702	Acenaphthylene	ND	2.0	2.09	ug/L	104	(70-130)		
MSD_201405130702	Acenaphthylene	ND	2.0	2.01	ug/L	100	(70-130)	20	3.9
LCS1	Acetochlor		2.0	2.33	ug/L	117	(70-130)		
LCS2	Acetochlor		2.0	2.32	ug/L	116	(70-130)	20	0.43
MBLK	Acetochlor			<0.05	ug/L				
MRL_CHK	Acetochlor		0.05	0.0560	ug/L	112	(50-150)		
MS_201405130702	Acetochlor	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405130702	Acetochlor	ND	2.0	2.26	ug/L	113	(70-130)	20	7.3
LCS1	Alachlor		2.0	2.24	ug/L	112	(70-130)		
LCS2	Alachlor		2.0	2.26	ug/L	113	(70-130)	20	0.89
MBLK	Alachlor			<0.025	ug/L				
MRL_CHK	Alachlor		0.05	0.0500	ug/L	100	(50-150)		
MS_201405130702	Alachlor	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405130702	Alachlor	ND	2.0	2.34	ug/L	117	(70-130)	20	9.9
LCS1	Aldrin		2.0	1.75	ug/L	87	(70-130)		
LCS2	Aldrin		2.0	1.70	ug/L	85	(70-130)	20	2.9
MBLK	Aldrin			<0.025	ug/L				
MRL_CHK	Aldrin		0.05	0.0500	ug/L	100	(50-150)		
MS_201405130702	Aldrin	ND	2.0	1.69	ug/L	85	(70-130)		
MSD_201405130702	Aldrin	ND	2.0	1.75	ug/L	87	(70-130)	20	3.5
LCS1	Alpha-BHC		2.0	2.08	ug/L	104	(70-130)		
LCS2	Alpha-BHC		2.0	2.04	ug/L	102	(70-130)	20	1.9
MBLK	Alpha-BHC			<0.05	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.0960	ug/L	96	(50-150)		
MS_201405130702	Alpha-BHC	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Alpha-BHC	ND	2.0	2.02	ug/L	101	(70-130)	20	2.9
LCS1	alpha-Chlordane		2.0	2.18	ug/L	109	(70-130)		

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Laboratory QC
Report: 481285

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	alpha-Chlordane		2.0	2.14	ug/L	107	(70-130)	20	1.9
MBLK	alpha-Chlordane			<0.025	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0510	ug/L	102	(50-150)		
MS_201405130702	alpha-Chlordane	ND	2.0	1.92	ug/L	96	(70-130)		
MSD_201405130702	alpha-Chlordane	ND	2.0	2.24	ug/L	112	(70-130)	20	15
LCS1	Anthracene		2.0	2.01	ug/L	101	(70-130)		
LCS2	Anthracene		2.0	2.05	ug/L	103	(70-130)	20	2.0
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0170	ug/L	85	(50-150)		
MS_201405130702	Anthracene	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405130702	Anthracene	ND	2.0	2.03	ug/L	101	(70-130)	20	0.0
LCS1	Atrazine		2.0	2.36	ug/L	118	(70-130)		
LCS2	Atrazine		2.0	2.28	ug/L	114	(70-130)	20	3.5
MBLK	Atrazine			<0.025	ug/L				
MRL_CHK	Atrazine		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Atrazine	ND	2.0	2.21	ug/L	111	(70-130)		
MSD_201405130702	Atrazine	ND	2.0	2.28	ug/L	114	(70-130)	20	3.1
LCS1	Benz(a)Anthracene		2.0	2.59	ug/L	129	(70-130)		
LCS2	Benz(a)Anthracene		2.0	2.63	ug/L	**131**	(70-130)	20	1.5
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0730	ug/L	146	(50-150)		
MS_201405130702	Benz(a)Anthracene	ND	2.0	2.41	ug/L	120	(70-130)		
MSD_201405130702	Benz(a)Anthracene	ND	2.0	2.64	ug/L	**132**	(70-130)	20	9.1
LCS1	Benzo(a)pyrene		2.0	2.53	ug/L	126	(70-130)		
LCS2	Benzo(a)pyrene		2.0	2.59	ug/L	129	(70-130)	20	2.3
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0150	ug/L	75	(50-150)		
MS_201405130702	Benzo(a)pyrene	ND	2.0	2.21	ug/L	110	(70-130)		
MSD_201405130702	Benzo(a)pyrene	ND	2.0	2.58	ug/L	129	(70-130)	20	15
LCS1	Benzo(b)Fluoranthene		2.0	2.47	ug/L	124	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	2.55	ug/L	128	(70-130)	20	3.2
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0180	ug/L	90	(50-150)		
MS_201405130702	Benzo(b)Fluoranthene	ND	2.0	2.33	ug/L	116	(70-130)		
MSD_201405130702	Benzo(b)Fluoranthene	ND	2.0	2.52	ug/L	126	(70-130)	20	7.8
LCS1	Benzo(g,h,i)Perylene		2.0	3.02	ug/L	**151**	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	2.97	ug/L	**149**	(70-130)	20	1.7
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				

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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0420	ug/L	84	(50-150)		
MS_201405130702	Benzo(g,h,i)Perylene	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405130702	Benzo(g,h,i)Perylene	ND	2.0	3.07	ug/L	**154**	(70-130)	20	**37**
LCS1	Benzo(k)Fluoranthene		2.0	2.61	ug/L	**131**	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	2.66	ug/L	**133**	(70-130)	20	1.9
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0210	ug/L	105	(50-150)		
MS_201405130702	Benzo(k)Fluoranthene	ND	2.0	2.29	ug/L	114	(70-130)		
MSD_201405130702	Benzo(k)Fluoranthene	ND	2.0	2.54	ug/L	127	(70-130)	20	10
LCS1	Beta-BHC		2.0	2.06	ug/L	103	(70-130)		
LCS2	Beta-BHC		2.0	2.06	ug/L	103	(70-130)	20	0.0
MBLK	Beta-BHC			<0.05	ug/L				
MRL_CHK	Beta-BHC		0.1	0.100	ug/L	100	(50-150)		
MS_201405130702	Beta-BHC	ND	2.0	2.02	ug/L	101	(70-130)		
MSD_201405130702	Beta-BHC	ND	2.0	2.14	ug/L	107	(70-130)	20	5.8
LCS1	Bromacil		2.0	2.42	ug/L	121	(70-130)		
LCS2	Bromacil		2.0	2.38	ug/L	119	(70-130)	20	1.3
MBLK	Bromacil			<0.05	ug/L				
MRL_CHK	Bromacil		0.1	0.0940	ug/L	94	(50-150)		
MS_201405130702	Bromacil	ND	2.0	2.34	ug/L	117	(70-130)		
MSD_201405130702	Bromacil	ND	2.0	2.43	ug/L	122	(70-130)	20	3.8
LCS1	Butachlor		2.0	2.44	ug/L	122	(70-130)		
LCS2	Butachlor		2.0	2.45	ug/L	123	(70-130)	20	0.41
MBLK	Butachlor			<0.025	ug/L				
MRL_CHK	Butachlor		0.05	0.0510	ug/L	102	(50-150)		
MS_201405130702	Butachlor	ND	2.0	2.34	ug/L	117	(70-130)		
MSD_201405130702	Butachlor	ND	2.0	2.53	ug/L	127	(70-130)	20	7.8
LCS1	Butylbenzylphthalate		2.0	2.49	ug/L	124	(70-130)		
LCS2	Butylbenzylphthalate		2.0	2.56	ug/L	128	(70-130)	20	2.8
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.150	ug/L	100	(50-150)		
MS_201405130702	Butylbenzylphthalate	ND	2.0	2.40	ug/L	120	(70-130)		
MSD_201405130702	Butylbenzylphthalate	ND	2.0	2.59	ug/L	130	(70-130)	20	7.6
LCS1	Caffeine by method 525mod		2.0	2.00	ug/L	100	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.94	ug/L	97	(45-137)	20	3.0
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Caffeine by method 525mod	ND	2.0	1.85	ug/L	92	(46-144)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405130702	Caffeine by method 525mod	ND	2.0	1.91	ug/L	96	(46-144)	20	3.2
LCS1	Chlorobenzilate		2.0	2.32	ug/L	116	(70-130)		
LCS2	Chlorobenzilate		2.0	2.35	ug/L	118	(70-130)	20	1.3
MBLK	Chlorobenzilate			<0.05	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.0750	ug/L	75	(50-150)		
MS_201405130702	Chlorobenzilate	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Chlorobenzilate	ND	2.0	2.34	ug/L	117	(70-130)	20	12
LCS1	Chloroneb		2.0	2.04	ug/L	102	(70-130)		
LCS2	Chloroneb		2.0	2.03	ug/L	101	(70-130)	20	0.98
MBLK	Chloroneb			<0.05	ug/L				
MRL_CHK	Chloroneb		0.1	0.109	ug/L	109	(50-150)		
MS_201405130702	Chloroneb	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405130702	Chloroneb	ND	2.0	2.05	ug/L	102	(70-130)	20	2.4
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	2.26	ug/L	113	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	2.30	ug/L	115	(70-130)	20	1.8
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0490	ug/L	98	(50-150)		
MS_201405130702	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.29	ug/L	114	(70-130)	20	4.9
LCS1	Chlorpyrifos (Dursban)		2.0	2.15	ug/L	108	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	2.26	ug/L	113	(70-130)	20	5.0
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Chlorpyrifos (Dursban)	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405130702	Chlorpyrifos (Dursban)	ND	2.0	2.25	ug/L	112	(70-130)	20	6.9
LCS1	Chrysene		2.0	2.08	ug/L	104	(70-130)		
LCS2	Chrysene		2.0	2.17	ug/L	108	(70-130)	20	4.2
MBLK	Chrysene			<0.01	ug/L				
MRL_CHK	Chrysene		0.02	0.0200	ug/L	100	(50-150)		
MS_201405130702	Chrysene	ND	2.0	2.11	ug/L	106	(70-130)		
MSD_201405130702	Chrysene	ND	2.0	2.08	ug/L	104	(70-130)	20	0.95
LCS1	Chrysene-d12 (I)			95.7	%	96	(50-150)		
LCS2	Chrysene-d12 (I)			93.2	%	93	(50-150)		
MBLK	Chrysene-d12 (I)			92.0	%	92	(50-150)		
MRL_CHK	Chrysene-d12 (I)			92.5	%	93	(50-150)		
MS_201405130702	Chrysene-d12 (I)			96.0	%	96	(50-150)		
MSD_201405130702	Chrysene-d12 (I)			93.5	%	94	(50-150)		
LCS1	Delta-BHC		2.0	1.98	ug/L	99	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Delta-BHC		2.0	2.12	ug/L	106	(70-130)	20	6.8
MBLK	Delta-BHC			<0.05	ug/L				
MRL_CHK	Delta-BHC		0.1	0.0790	ug/L	79	(50-150)		
MS_201405130702	Delta-BHC	ND	2.0	1.98	ug/L	99	(70-130)		
MSD_201405130702	Delta-BHC	ND	2.0	2.07	ug/L	103	(70-130)	20	3.9
LCS1	Di-(2-Ethylhexyl)adipate		2.0	2.25	ug/L	112	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	2.39	ug/L	119	(70-130)	20	6.0
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.307	ug/L	102	(50-150)		
MS_201405130702	Di-(2-Ethylhexyl)adipate	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405130702	Di-(2-Ethylhexyl)adipate	ND	2.0	2.37	ug/L	119	(70-130)	20	16
LCS1	Di(2-Ethylhexyl)phthalate		2.0	1.78	ug/L	89	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	1.84	ug/L	92	(70-130)	20	3.3
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.522	ug/L	87	(50-150)		
MS_201405130702	Di(2-Ethylhexyl)phthalate	ND	2.0	1.67	ug/L	84	(70-130)		
MSD_201405130702	Di(2-Ethylhexyl)phthalate	ND	2.0	1.82	ug/L	91	(70-130)	20	8.6
LCS1	Diazinon (Qualitative)		2.0	1.93	ug/L	96	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.90	ug/L	95	(70-130)	20	1.6
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.107	ug/L	107	(50-150)		
MS_201405130702	Diazinon (Qualitative)		2.0	1.69	ug/L	85	(70-130)		
MSD_201405130702	Diazinon (Qualitative)		2.0	1.90	ug/L	95	(70-130)	20	12
LCS1	Dibenz(a,h)Anthracene		2.0	2.61	ug/L	**131**	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	2.54	ug/L	127	(70-130)	20	2.7
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0600	ug/L	120	(50-150)		
MS_201405130702	Dibenz(a,h)Anthracene	ND	2.0	1.80	ug/L	90	(70-130)		
MSD_201405130702	Dibenz(a,h)Anthracene	ND	2.0	2.56	ug/L	128	(70-130)	20	**35**
LCS1	Dichlorvos (DDVP)		2.0	2.07	ug/L	103	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	2.03	ug/L	101	(70-130)	20	2.0
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0410	ug/L	82	(50-150)		
MS_201405130702	Dichlorvos (DDVP)	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Dichlorvos (DDVP)	ND	2.0	2.11	ug/L	106	(70-130)	20	1.4
LCS1	Dieldrin		2.0	2.14	ug/L	107	(70-130)		
LCS2	Dieldrin		2.0	2.13	ug/L	107	(70-130)	20	0.94
MBLK	Dieldrin			<0.05	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dieldrin		0.1	0.104	ug/L	104	(50-150)		
MS_201405130702	Dieldrin	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405130702	Dieldrin	ND	2.0	2.22	ug/L	111	(70-130)	20	9.9
LCS1	Diethylphthalate		2.0	2.18	ug/L	109	(70-130)		
LCS2	Diethylphthalate		2.0	2.13	ug/L	107	(70-130)	20	2.3
MBLK	Diethylphthalate			<0.15	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.160	ug/L	107	(50-150)		
MS_201405130702	Diethylphthalate	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Diethylphthalate	ND	2.0	2.16	ug/L	108	(70-130)	20	0.92
LCS1	Dimethoate		2.0	1.73	ug/L	87	(35-100)		
LCS2	Dimethoate		2.0	1.62	ug/L	81	(35-100)	20	6.6
MBLK	Dimethoate			<0.05	ug/L				
MRL_CHK	Dimethoate		0.1	0.0640	ug/L	64	(35-100)		
MS_201405130702	Dimethoate	ND	2.0	1.74	ug/L	87	(34-111)		
MSD_201405130702	Dimethoate	ND	2.0	1.69	ug/L	85	(34-111)	20	2.9
LCS1	Dimethylphthalate		2.0	2.08	ug/L	104	(70-130)		
LCS2	Dimethylphthalate		2.0	2.12	ug/L	106	(70-130)	20	1.9
MBLK	Dimethylphthalate			<0.15	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.295	ug/L	98	(50-150)		
MS_201405130702	Dimethylphthalate	ND	2.0	2.14	ug/L	107	(70-130)		
MSD_201405130702	Dimethylphthalate	ND	2.0	2.07	ug/L	103	(70-130)	20	3.3
LCS1	Di-n-Butylphthalate		4.0	4.21	ug/L	105	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	4.24	ug/L	106	(70-130)	20	0.71
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.308	ug/L	103	(50-150)		
MS_201405130702	Di-n-Butylphthalate	ND	4.0	4.02	ug/L	100	(70-130)		
MSD_201405130702	Di-n-Butylphthalate	ND	4.0	4.36	ug/L	109	(70-130)	20	8.1
LCS1	Di-N-octylphthalate		2.0	1.79	ug/L	89	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.90	ug/L	95	(70-130)	20	6.0
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.103	ug/L	103	(50-150)		
MS_201405130702	Di-N-octylphthalate	ND	2.0	1.51	ug/L	76	(70-130)		
MSD_201405130702	Di-N-octylphthalate	ND	2.0	1.74	ug/L	87	(70-130)	20	14
LCS1	Endosulfan I (Alpha)		2.0	2.10	ug/L	105	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	2.05	ug/L	102	(70-130)	20	2.4
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.108	ug/L	108	(50-150)		
MS_201405130702	Endosulfan I (Alpha)	ND	2.0	1.79	ug/L	90	(70-130)		

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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405130702	Endosulfan I (Alpha)	ND	2.0	2.06	ug/L	103	(70-130)	20	14
LCS1	Endosulfan II (Beta)		2.0	2.33	ug/L	117	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	2.49	ug/L	124	(70-130)	20	6.6
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.0940	ug/L	94	(50-150)		
MS_201405130702	Endosulfan II (Beta)	ND	2.0	2.30	ug/L	115	(70-130)		
MSD_201405130702	Endosulfan II (Beta)	ND	2.0	2.53	ug/L	126	(70-130)	20	9.1
LCS1	Endosulfan Sulfate		2.0	2.41	ug/L	121	(70-130)		
LCS2	Endosulfan Sulfate		2.0	2.45	ug/L	122	(70-130)	20	1.6
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.133	ug/L	133	(50-150)		
MS_201405130702	Endosulfan Sulfate	ND	2.0	2.32	ug/L	116	(70-130)		
MSD_201405130702	Endosulfan Sulfate	ND	2.0	2.56	ug/L	128	(70-130)	20	9.8
LCS1	Endrin		2.0	2.16	ug/L	108	(70-130)		
LCS2	Endrin		2.0	2.08	ug/L	104	(70-130)	20	3.8
MBLK	Endrin			<0.05	ug/L				
MRL_CHK	Endrin		0.1	0.111	ug/L	111	(50-150)		
MS_201405130702	Endrin	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405130702	Endrin	ND	2.0	2.21	ug/L	111	(70-130)	20	10
LCS1	Endrin Aldehyde		2.0	2.18	ug/L	109	(70-130)		
LCS2	Endrin Aldehyde		2.0	2.14	ug/L	107	(70-130)	20	1.9
MBLK	Endrin Aldehyde			<0.05	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0670	ug/L	67	(50-150)		
MS_201405130702	Endrin Aldehyde	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405130702	Endrin Aldehyde	ND	2.0	2.18	ug/L	109	(70-130)	20	13
LCS1	EPTC		2.0	2.07	ug/L	103	(70-130)		
LCS2	EPTC		2.0	2.10	ug/L	105	(70-130)	20	1.4
MBLK	EPTC			<0.05	ug/L				
MRL_CHK	EPTC		0.1	0.0860	ug/L	86	(50-150)		
MS_201405130702	EPTC	ND	2.0	2.13	ug/L	106	(70-130)		
MSD_201405130702	EPTC	ND	2.0	2.13	ug/L	106	(70-130)	20	0.0
LCS1	Fluoranthene		2.0	2.18	ug/L	109	(70-130)		
LCS2	Fluoranthene		2.0	2.25	ug/L	112	(70-130)	20	3.2
MBLK	Fluoranthene			<0.05	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0500	ug/L	100	(50-150)		
MS_201405130702	Fluoranthene	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Fluoranthene	ND	2.0	2.24	ug/L	112	(70-130)	20	3.2
LCS1	Fluorene		2.0	2.08	ug/L	104	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Fluorene		2.0	2.09	ug/L	104	(70-130)	20	0.48
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Fluorene	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Fluorene	ND	2.0	2.10	ug/L	105	(70-130)	20	3.3
LCS1	gamma-Chlordane		2.0	2.24	ug/L	112	(70-130)		
LCS2	gamma-Chlordane		2.0	2.28	ug/L	114	(70-130)	20	1.8
MBLK	gamma-Chlordane			<0.025	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0510	ug/L	102	(50-150)		
MS_201405130702	gamma-Chlordane	ND	2.0	2.14	ug/L	107	(70-130)		
MSD_201405130702	gamma-Chlordane	ND	2.0	2.31	ug/L	116	(70-130)	20	7.6
LCS1	Heptachlor		2.0	1.92	ug/L	96	(70-130)		
LCS2	Heptachlor		2.0	1.92	ug/L	96	(70-130)	20	0.0
MBLK	Heptachlor			<0.015	ug/L				
MRL_CHK	Heptachlor		0.04	0.0410	ug/L	102	(50-150)		
MS_201405130702	Heptachlor	ND	2.0	1.87	ug/L	93	(70-130)		
MSD_201405130702	Heptachlor	ND	2.0	1.96	ug/L	98	(70-130)	20	4.7
LCS1	Heptachlor Epoxide (isomer B)		2.0	2.10	ug/L	105	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2.0	2.10	ug/L	105	(70-130)	20	0.0
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0620	ug/L	124	(50-150)		
MS_201405130702	Heptachlor Epoxide (isomer B)	ND	2.0	1.86	ug/L	93	(70-130)		
MSD_201405130702	Heptachlor Epoxide (isomer B)	ND	2.0	2.16	ug/L	108	(70-130)	20	15
LCS1	Hexachlorobenzene		2.0	2.01	ug/L	101	(70-130)		
LCS2	Hexachlorobenzene		2.0	2.02	ug/L	101	(70-130)	20	0.50
MBLK	Hexachlorobenzene			<0.025	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0520	ug/L	104	(50-150)		
MS_201405130702	Hexachlorobenzene	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405130702	Hexachlorobenzene	ND	2.0	2.11	ug/L	106	(70-130)	20	3.4
LCS1	Hexachlorocyclopentadiene		2.0	1.86	ug/L	93	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	1.90	ug/L	95	(70-130)	20	2.1
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0480	ug/L	96	(50-150)		
MS_201405130702	Hexachlorocyclopentadiene	ND	2.0	1.97	ug/L	98	(70-130)		
MSD_201405130702	Hexachlorocyclopentadiene	ND	2.0	1.92	ug/L	96	(70-130)	20	2.6
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	2.59	ug/L	130	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	2.66	ug/L	**133**	(70-130)	20	2.7
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0530	ug/L	106	(50-150)		
MS_201405130702	Indeno(1,2,3,c,d)Pyrene	ND	2.0	1.83	ug/L	91	(70-130)		
MSD_201405130702	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.56	ug/L	128	(70-130)	20	**33**
LCS1	Isophorone		2.0	2.09	ug/L	105	(70-130)		
LCS2	Isophorone		2.0	2.09	ug/L	105	(70-130)	20	0.0
MBLK	Isophorone			<0.25	ug/L				
MRL_CHK	Isophorone		0.1	0.108	ug/L	108	(50-150)		
MS_201405130702	Isophorone	ND	2.0	2.02	ug/L	101	(70-130)		
MSD_201405130702	Isophorone	ND	2.0	2.12	ug/L	106	(70-130)	20	4.8
LCS1	Lindane		2.0	2.14	ug/L	107	(70-130)		
LCS2	Lindane		2.0	2.10	ug/L	105	(70-130)	20	1.9
MBLK	Lindane			<0.02	ug/L				
MRL_CHK	Lindane		0.04	0.0410	ug/L	102	(50-150)		
MS_201405130702	Lindane	ND	2.0	2.17	ug/L	108	(70-130)		
MSD_201405130702	Lindane	ND	2.0	2.13	ug/L	107	(70-130)	20	1.9
LCS1	Malathion		2.0	2.06	ug/L	103	(70-130)		
LCS2	Malathion		2.0	2.14	ug/L	107	(70-130)	20	3.3
MBLK	Malathion			<0.05	ug/L				
MRL_CHK	Malathion		0.1	0.109	ug/L	109	(50-150)		
MS_201405130702	Malathion	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405130702	Malathion	ND	2.0	2.12	ug/L	106	(70-130)	20	5.8
LCS1	Methoxychlor		2.0	1.97	ug/L	99	(70-130)		
LCS2	Methoxychlor		2.0	2.00	ug/L	100	(70-130)	20	1.5
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.1	0.112	ug/L	112	(50-150)		
MS_201405130702	Methoxychlor	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405130702	Methoxychlor	ND	2.0	1.90	ug/L	95	(70-130)	20	2.6
LCS1	Metolachlor		2.0	2.25	ug/L	113	(70-130)		
LCS2	Metolachlor		2.0	2.26	ug/L	113	(70-130)	20	0.44
MBLK	Metolachlor			<0.025	ug/L				
MRL_CHK	Metolachlor		0.05	0.0450	ug/L	90	(50-150)		
MS_201405130702	Metolachlor	ND	2.0	2.14	ug/L	107	(70-130)		
MSD_201405130702	Metolachlor	ND	2.0	2.27	ug/L	113	(70-130)	20	5.9
LCS1	Metribuzin		2.0	2.05	ug/L	102	(70-130)		
LCS2	Metribuzin		2.0	2.04	ug/L	102	(70-130)	20	0.49
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0730	ug/L	146	(50-150)		
MS_201405130702	Metribuzin	ND	2.0	1.98	ug/L	99	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201405130702	Metribuzin	ND	2.0	2.04	ug/L	102	(70-130)	20	3.0
LCS1	Molinate		2.0	2.07	ug/L	103	(70-130)		
LCS2	Molinate		2.0	2.09	ug/L	104	(70-130)	20	0.96
MBLK	Molinate			<0.05	ug/L				
MRL_CHK	Molinate		0.1	0.0900	ug/L	90	(50-150)		
MS_201405130702	Molinate	ND	2.0	2.13	ug/L	107	(70-130)		
MSD_201405130702	Molinate	ND	2.0	2.08	ug/L	104	(70-130)	20	2.4
LCS1	Naphthalene		2.0	1.96	ug/L	98	(70-130)		
LCS2	Naphthalene		2.0	1.96	ug/L	98	(70-130)	20	0.0
MBLK	Naphthalene			<0.05	ug/L				
MRL_CHK	Naphthalene		0.1	0.107	ug/L	107	(50-150)		
MS_201405130702	Naphthalene	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405130702	Naphthalene	ND	2.0	2.03	ug/L	101	(70-130)	20	6.1
LCS1	Parathion		2.0	2.07	ug/L	104	(70-130)		
LCS2	Parathion		2.0	2.08	ug/L	104	(70-130)	20	0.48
MBLK	Parathion			<0.05	ug/L				
MRL_CHK	Parathion		0.1	0.108	ug/L	108	(50-150)		
MS_201405130702	Parathion	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405130702	Parathion	ND	2.0	2.03	ug/L	102	(70-130)	20	0.49
LCS1	Pendimethalin		2.0	2.11	ug/L	106	(70-130)		
LCS2	Pendimethalin		2.0	2.10	ug/L	105	(70-130)	20	0.0
MBLK	Pendimethalin			<0.05	ug/L				
MRL_CHK	Pendimethalin		0.1	0.103	ug/L	103	(50-150)		
MS_201405130702	Pendimethalin	ND	2.0	2.06	ug/L	103	(70-130)		
MSD_201405130702	Pendimethalin	ND	2.0	2.17	ug/L	109	(70-130)	20	5.2
LCS1	Pentachlorophenol		8.0	8.86	ug/L	111	(70-130)		
LCS2	Pentachlorophenol		8.0	8.62	ug/L	108	(70-130)	20	2.8
MBLK	Pentachlorophenol			<0.6	ug/L				
MRL_CHK	Pentachlorophenol		0.5	0.455	ug/L	91	(50-150)		
MS_201405130702	Pentachlorophenol	ND	8.0	8.75	ug/L	109	(70-130)		
MSD_201405130702	Pentachlorophenol	ND	8.0	8.70	ug/L	109	(70-130)	20	0.57
LCS1	Permethrin (mixed isomers)		4.0	3.97	ug/L	99	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	4.20	ug/L	105	(70-130)	20	5.6
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.15	0.285	ug/L	**190**	(50-150)		
MS_201405130702	Permethrin (mixed isomers)	ND	4.0	3.66	ug/L	92	(70-130)		
MSD_201405130702	Permethrin (mixed isomers)	ND	4.0	4.01	ug/L	100	(70-130)	20	9.1
LCS1	Perylene-d12 (S)			118	%	119	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perylene-d12 (S)			120	%	120	(70-130)		
MBLK	Perylene-d12 (S)			103	%	103	(70-130)		
MRL_CHK	Perylene-d12 (S)			95.5	%	96	(70-130)		
MS_201405130702	Perylene-d12 (S)			104	%	104	(70-130)		
MSD_201405130702	Perylene-d12 (S)			119	%	119	(70-130)		
LCS1	Phenanthrene		2.0	1.95	ug/L	97	(70-130)		
LCS2	Phenanthrene		2.0	1.99	ug/L	100	(70-130)	20	2.0
MBLK	Phenanthrene			<0.02	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0210	ug/L	105	(50-150)		
MS_201405130702	Phenanthrene	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405130702	Phenanthrene	ND	2.0	1.98	ug/L	99	(70-130)	20	1.5
LCS1	Phenanthrene-d10 (I)			80.9	%	81	(50-150)		
LCS2	Phenanthrene-d10 (I)			79.4	%	79	(50-150)		
MBLK	Phenanthrene-d10 (I)			81.3	%	81	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			82.3	%	82	(50-150)		
MS_201405130702	Phenanthrene-d10 (I)			90.1	%	90	(50-150)		
MSD_201405130702	Phenanthrene-d10 (I)			76.7	%	77	(50-150)		
LCS1	Propachlor		2.0	2.10	ug/L	105	(70-130)		
LCS2	Propachlor		2.0	2.14	ug/L	107	(70-130)	20	1.9
MBLK	Propachlor			<0.025	ug/L				
MRL_CHK	Propachlor		0.05	0.0490	ug/L	98	(50-150)		
MS_201405130702	Propachlor	ND	2.0	2.17	ug/L	109	(70-130)		
MSD_201405130702	Propachlor	ND	2.0	2.08	ug/L	104	(70-130)	20	3.8
LCS1	Pyrene		2.0	2.29	ug/L	114	(70-130)		
LCS2	Pyrene		2.0	2.31	ug/L	115	(70-130)	20	0.87
MBLK	Pyrene			<0.025	ug/L				
MRL_CHK	Pyrene		0.05	0.0540	ug/L	108	(50-150)		
MS_201405130702	Pyrene	ND	2.0	2.22	ug/L	111	(70-130)		
MSD_201405130702	Pyrene	ND	2.0	2.35	ug/L	117	(70-130)	20	5.7
LCS1	Simazine		2.0	2.21	ug/L	111	(70-130)		
LCS2	Simazine		2.0	2.24	ug/L	112	(70-130)	20	1.4
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0320	ug/L	64	(50-150)		
MS_201405130702	Simazine	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Simazine	ND	2.0	2.24	ug/L	112	(70-130)	20	7.4
LCS1	Terbacil		2.0	2.13	ug/L	107	(70-130)		
LCS2	Terbacil		2.0	2.10	ug/L	105	(70-130)	20	0.94
MBLK	Terbacil			<0.05	ug/L				

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Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Terbacil		0.1	0.0830	ug/L	83	(50-150)		
MS_201405130702	Terbacil	ND	2.0	2.09	ug/L	105	(70-130)		
MSD_201405130702	Terbacil	ND	2.0	2.08	ug/L	104	(70-130)	20	0.48
LCS1	Terbuthylazine		2.0	2.34	ug/L	117	(70-130)		
LCS2	Terbuthylazine		2.0	2.30	ug/L	115	(70-130)	20	1.3
MBLK	Terbuthylazine			<0.2	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.0840	ug/L	84	(50-150)		
MS_201405130702	Terbuthylazine	ND	2.0	2.26	ug/L	113	(70-130)		
MSD_201405130702	Terbuthylazine	ND	2.0	2.38	ug/L	119	(70-130)	20	5.2
LCS1	Thiobencarb		2.0	2.26	ug/L	113	(70-130)		
LCS2	Thiobencarb		2.0	2.28	ug/L	114	(70-130)	20	0.88
MBLK	Thiobencarb			<0.1	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0810	ug/L	81	(50-150)		
MS_201405130702	Thiobencarb	ND	2.0	2.16	ug/L	108	(70-130)		
MSD_201405130702	Thiobencarb	ND	2.0	2.27	ug/L	113	(70-130)	20	5.0
LCS1	trans-Nonachlor		2.0	2.27	ug/L	114	(70-130)		
LCS2	trans-Nonachlor		2.0	2.24	ug/L	112	(70-130)	20	1.3
MBLK	trans-Nonachlor			<0.025	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0430	ug/L	86	(50-150)		
MS_201405130702	trans-Nonachlor	ND	2.0	2.11	ug/L	106	(70-130)		
MSD_201405130702	trans-Nonachlor	ND	2.0	2.29	ug/L	115	(70-130)	20	8.2
LCS1	Trifluralin		2.0	1.92	ug/L	96	(70-130)		
LCS2	Trifluralin		2.0	1.90	ug/L	95	(70-130)	20	1.1
MBLK	Trifluralin			<0.05	ug/L				
MRL_CHK	Trifluralin		0.1	0.115	ug/L	115	(50-150)		
MS_201405130702	Trifluralin	ND	2.0	1.93	ug/L	96	(70-130)		
MSD_201405130702	Trifluralin	ND	2.0	2.01	ug/L	101	(70-130)	20	4.1
LCS1	Triphenylphosphate (S)			119	%	119	(70-130)		
LCS2	Triphenylphosphate (S)			118	%	118	(70-130)		
MBLK	Triphenylphosphate (S)			115	%	115	(70-130)		
MRL_CHK	Triphenylphosphate (S)			119	%	119	(70-130)		
MS_201405130702	Triphenylphosphate (S)			108	%	108	(70-130)		
MSD_201405130702	Triphenylphosphate (S)			124	%	124	(70-130)		

QC Ref# 776371 - Gross Alpha/Beta Radiation by EPA 900.0 **Analysis Date: 06/12/2014**

DUP1_201405150394	Beta, Gross	ND		ND	pCi/L		(0-20)		
DUP2_201405090597	Beta, Gross	ND		ND	pCi/L		(0-20)		
LCS1	Beta, Gross		33	34.6	pCi/L	104	(80-120)		
LCS2	Beta, Gross		33	31.9	pCi/L	95	(80-120)	20	8.1

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Beta, Gross			<3	pCi/L				
MS_201405140437	Beta, Gross	ND	33	32.4	pCi/L	92	(70-130)		
QC Ref# 769377 - ICP Metals by EPA 200.7						**Analysis Date: 05/14/2014**			
LCS1	Calcium Total ICAP		50	49.3	mg/L	99	(85-115)		
LCS2	Calcium Total ICAP		50	49.3	mg/L	99	(85-115)	20	0.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.06	mg/L	106	(50-150)		
MS_201405130749	Calcium Total ICAP	36	50	84.4	mg/L	96	(70-130)		
MS2_201405080627	Calcium Total ICAP	73	50	120	mg/L	95	(70-130)		
MSD_201405130749	Calcium Total ICAP	36	50	83.6	mg/L	95	(70-130)	20	0.95
MSD2_201405080627	Calcium Total ICAP	73	50	122	mg/L	99	(70-130)	20	1.6
LCS1	Dissolved Silica		21	22.1	mg/L	103	(85-115)		
LCS2	Dissolved Silica		21	22.4	mg/L	105	(85-115)	20	1.4
MBLK	Dissolved Silica			<0.211	mg/L				
MRL_CHK	Dissolved Silica		0.42	0.440	mg/L	104	(50-150)		
MS_201405130749	Dissolved Silica	25	21	22.4	mg/L	105	(70-130)		
MS2_201405080627	Dissolved Silica	8.8	21	32.0	mg/L	108	(70-130)		
MSD_201405130749	Dissolved Silica	25	21	21.8	mg/L	102	(70-130)	20	2.7
MSD2_201405080627	Dissolved Silica	8.8	21	31.9	mg/L	108	(70-130)	20	0.31
LCS1	Iron Total ICAP		5.0	4.87	mg/L	97	(85-115)		
LCS2	Iron Total ICAP		5.0	4.92	mg/L	98	(85-115)	20	1.0
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0222	mg/L	111	(50-150)		
MS_201405130749	Iron Total ICAP	0.022	5.0	5.12	mg/L	102	(70-130)		
MS2_201405080627	Iron Total ICAP	ND	5.0	5.13	mg/L	103	(70-130)		
MSD_201405130749	Iron Total ICAP	0.022	5.0	5.05	mg/L	101	(70-130)	20	1.4
MSD2_201405080627	Iron Total ICAP	ND	5.0	5.15	mg/L	103	(70-130)	20	0.39
LCS1	Magnesium Total ICAP		20	19.3	mg/L	97	(85-115)		
LCS2	Magnesium Total ICAP		20	19.7	mg/L	99	(85-115)	20	2.0
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.109	mg/L	109	(50-150)		
MS_201405130749	Magnesium Total ICAP	6.8	20	26.7	mg/L	99	(70-130)		
MS2_201405080627	Magnesium Total ICAP	26	20	44.6	mg/L	95	(70-130)		
MSD_201405130749	Magnesium Total ICAP	6.8	20	26.4	mg/L	98	(70-130)	20	1.1
MSD2_201405080627	Magnesium Total ICAP	26	20	44.8	mg/L	96	(70-130)	20	0.45
LCS1	Potassium Total ICAP		20	18.9	mg/L	95	(85-115)		
LCS2	Potassium Total ICAP		20	19.4	mg/L	97	(85-115)	20	2.6

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	1.07	mg/L	107	(50-150)		
MS_201405130749	Potassium Total ICAP	2.3	20	22.1	mg/L	99	(70-130)		
MS2_201405080627	Potassium Total ICAP	4.4	20	24.2	mg/L	99	(70-130)		
MSD_201405130749	Potassium Total ICAP	2.3	20	21.9	mg/L	98	(70-130)	20	0.91
MSD2_201405080627	Potassium Total ICAP	4.4	20	24.4	mg/L	100	(70-130)	20	0.82
LCS1	Sodium Total ICAP		50	47.3	mg/L	95	(85-115)		
LCS2	Sodium Total ICAP		50	48.6	mg/L	97	(85-115)	20	2.7
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.03	mg/L	103	(50-150)		
MS_201405130749	Sodium Total ICAP	39	50	87.6	mg/L	97	(70-130)		
MS2_201405080627	Sodium Total ICAP	89	50	136	mg/L	95	(70-130)		
MSD_201405130749	Sodium Total ICAP	39	50	86.9	mg/L	96	(70-130)	20	0.80
MSD2_201405080627	Sodium Total ICAP	89	50	137	mg/L	97	(70-130)	20	0.73
QC Ref# 769472 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/14/2014**			
LCS1	Aluminum Total ICAP/MS		200	220	ug/L	110	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	225	ug/L	112	(85-115)	20	2.3
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	20.0	ug/L	100	(50-150)		
MS_201405070531	Aluminum Total ICAP/MS	ND	200	215	ug/L	107	(70-130)		
MS2_201405070528	Aluminum Total ICAP/MS	ND	200	214	ug/L	107	(70-130)		
MSD_201405070531	Aluminum Total ICAP/MS	ND	200	220	ug/L	110	(70-130)	20	2.3
MSD2_201405070528	Aluminum Total ICAP/MS	ND	200	211	ug/L	106	(70-130)	20	1.4
LCS1	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)		
LCS2	Antimony Total ICAP/MS		50	52.5	ug/L	105	(85-115)	20	1.9
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_201405070531	Antimony Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)		
MS2_201405070528	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)		
MSD_201405070531	Antimony Total ICAP/MS	ND	50	52.8	ug/L	106	(70-130)	20	1.3
MSD2_201405070528	Antimony Total ICAP/MS	ND	50	51.7	ug/L	103	(70-130)	20	0.0
LCS1	Arsenic Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	21.1	ug/L	105	(85-115)	20	0.48
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	0.915	ug/L	92	(50-150)		
MS_201405070531	Arsenic Total ICAP/MS	ND	20	21.5	ug/L	108	(70-130)		
MS2_201405070528	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	108	(70-130)		
MSD_201405070531	Arsenic Total ICAP/MS	ND	20	22.1	ug/L	111	(70-130)	20	2.8

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201405070528	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	108	(70-130)	20	0.0
LCS1	Barium Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Barium Total ICAP/MS		100	110	ug/L	110	(85-115)	20	0.91
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201405070531	Barium Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MS2_201405070528	Barium Total ICAP/MS	ND	100	104	ug/L	105	(70-130)		
MSD_201405070531	Barium Total ICAP/MS	ND	100	109	ug/L	109	(70-130)	20	2.8
MSD2_201405070528	Barium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	0.96
LCS1	Beryllium Total ICAP/MS		5.0	4.58	ug/L	92	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	5.27	ug/L	105	(85-115)	20	14
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_201405070531	Beryllium Total ICAP/MS	ND	5.0	5.00	ug/L	100	(70-130)		
MS2_201405070528	Beryllium Total ICAP/MS	ND	5.0	4.18	ug/L	84	(70-130)		
MSD_201405070531	Beryllium Total ICAP/MS	ND	5.0	5.32	ug/L	106	(70-130)	20	6.2
MSD2_201405070528	Beryllium Total ICAP/MS	ND	5.0	4.53	ug/L	91	(70-130)	20	8.0
LCS1	Cadmium Total ICAP/MS		20	21.5	ug/L	107	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	22.0	ug/L	110	(85-115)	20	2.3
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.548	ug/L	110	(50-150)		
MS_201405070531	Cadmium Total ICAP/MS	ND	20	23.0	ug/L	115	(70-130)		
MS2_201405070528	Cadmium Total ICAP/MS	ND	20	22.0	ug/L	110	(70-130)		
MSD_201405070531	Cadmium Total ICAP/MS	ND	20	23.1	ug/L	115	(70-130)	20	0.43
MSD2_201405070528	Cadmium Total ICAP/MS	ND	20	21.9	ug/L	109	(70-130)	20	0.46
LCS1	Chromium Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Chromium Total ICAP/MS		100	111	ug/L	111	(85-115)	20	1.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201405070531	Chromium Total ICAP/MS	ND	100	103	ug/L	103	(70-130)		
MS2_201405070528	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201405070531	Chromium Total ICAP/MS	ND	100	104	ug/L	104	(70-130)	20	0.97
MSD2_201405070528	Chromium Total ICAP/MS	ND	100	98.9	ug/L	99	(70-130)	20	5.0
LCS1	Cobalt Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Cobalt Total ICAP/MS		100	110	ug/L	111	(85-115)	20	1.8
MBLK	Cobalt Total ICAP/MS			<2	ug/L				
MRL_CHK	Cobalt Total ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201405070531	Cobalt Total ICAP/MS	ND	100	101	ug/L	101	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_201405070528	Cobalt Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)		
MSD_201405070531	Cobalt Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	2.0
MSD2_201405070528	Cobalt Total ICAP/MS	ND	100	96.9	ug/L	97	(70-130)	20	2.1
LCS1	Copper Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Copper Total ICAP/MS		100	109	ug/L	109	(85-115)	20	1.9
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.22	ug/L	111	(50-150)		
MS_201405070531	Copper Total ICAP/MS	ND	100	106	ug/L	106	(70-130)		
MS2_201405070528	Copper Total ICAP/MS	ND	100	104	ug/L	104	(70-130)		
MSD_201405070531	Copper Total ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	0.94
MSD2_201405070528	Copper Total ICAP/MS	ND	100	102	ug/L	102	(70-130)	20	1.9
LCS1	Lead Total ICAP/MS		20	21.0	ug/L	105	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.2	ug/L	106	(85-115)	20	0.95
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.520	ug/L	104	(50-150)		
MS_201405070531	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)		
MS2_201405070528	Lead Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)		
MSD_201405070531	Lead Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)	20	0.0
MSD2_201405070528	Lead Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)	20	0.99
LCS1	Manganese Total ICAP/MS		50	53.2	ug/L	106	(85-115)		
LCS2	Manganese Total ICAP/MS		50	53.8	ug/L	108	(85-115)	20	1.1
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	2.07	ug/L	103	(50-150)		
MS_201405070531	Manganese Total ICAP/MS	ND	50	51.6	ug/L	103	(70-130)		
MS2_201405070528	Manganese Total ICAP/MS	ND	50	51.0	ug/L	102	(70-130)		
MSD_201405070531	Manganese Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)	20	0.96
MSD2_201405070528	Manganese Total ICAP/MS	ND	50	50.0	ug/L	100	(70-130)	20	2.0
LCS1	Nickel Total ICAP/MS		50	53.3	ug/L	107	(85-115)		
LCS2	Nickel Total ICAP/MS		50	53.7	ug/L	107	(85-115)	20	0.75
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.06	ug/L	101	(50-150)		
MS_201405070531	Nickel Total ICAP/MS	ND	50	53.1	ug/L	106	(70-130)		
MS2_201405070528	Nickel Total ICAP/MS	ND	50	51.3	ug/L	103	(70-130)		
MSD_201405070531	Nickel Total ICAP/MS	ND	50	53.7	ug/L	107	(70-130)	20	1.1
MSD2_201405070528	Nickel Total ICAP/MS	ND	50	50.4	ug/L	101	(70-130)	20	1.8
LCS1	Selenium Total ICAP/MS		20	20.6	ug/L	103	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.7	ug/L	104	(85-115)	20	0.48
MBLK	Selenium Total ICAP/MS			<5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Selenium Total ICAP/MS		5.0	5.46	ug/L	109	(50-150)		
MS_201405070531	Selenium Total ICAP/MS	ND	20	23.4	ug/L	117	(70-130)		
MS2_201405070528	Selenium Total ICAP/MS	ND	20	23.6	ug/L	118	(70-130)		
MSD_201405070531	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)	20	0.86
MSD2_201405070528	Selenium Total ICAP/MS	ND	20	23.2	ug/L	116	(70-130)	20	1.7
LCS1	Thallium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.0	ug/L	105	(85-115)	20	0.96
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201405070531	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MS2_201405070528	Thallium Total ICAP/MS	ND	20	20.1	ug/L	101	(70-130)		
MSD_201405070531	Thallium Total ICAP/MS	ND	20	20.5	ug/L	102	(70-130)	20	0.49
MSD2_201405070528	Thallium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)	20	0.99
LCS1	Uranium ICAP/MS		20	20.7	ug/L	104	(85-115)		
LCS2	Uranium ICAP/MS		20	20.9	ug/L	105	(85-115)	20	0.96
MBLK	Uranium ICAP/MS			<1	ug/L				
MRL_CHK	Uranium ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201405070531	Uranium ICAP/MS	ND	20	20.0	ug/L	100	(70-130)		
MS2_201405070528	Uranium ICAP/MS	ND	20	19.8	ug/L	99	(70-130)		
MSD_201405070531	Uranium ICAP/MS	ND	20	20.0	ug/L	100	(70-130)	20	0.0
MSD2_201405070528	Uranium ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	2.0
LCS1	Zinc Total ICAP/MS		100	105	ug/L	105	(85-115)		
LCS2	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.5	ug/L	107	(50-150)		
MS_201405070531	Zinc Total ICAP/MS	ND	100	116	ug/L	116	(70-130)		
MS2_201405070528	Zinc Total ICAP/MS	ND	100	115	ug/L	115	(70-130)		
MSD_201405070531	Zinc Total ICAP/MS	ND	100	117	ug/L	117	(70-130)	20	0.86
MSD2_201405070528	Zinc Total ICAP/MS	ND	100	113	ug/L	113	(70-130)	20	1.8
QC Ref# 769517 - ICPMS Metals by EPA 200.8						**Analysis Date: 05/14/2014**			
LCS1	Silver Total ICAP/MS		50	49.2	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	48.7	ug/L	97	(85-115)	20	1.2
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.525	ug/L	105	(50-150)		
MS_201405160226	Silver Total ICAP/MS	ND	50	45.5	ug/L	91	(70-130)		
MS2_201405160227	Silver Total ICAP/MS	ND	50	48.7	ug/L	97	(70-130)		
MSD_201405160226	Silver Total ICAP/MS	ND	50	44.3	ug/L	89	(70-130)	20	2.7
MSD2_201405160227	Silver Total ICAP/MS	ND	50	48.9	ug/L	98	(70-130)	20	0.41

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 769619 - Surfactants by SM 5540C/EPA 425.1						**Analysis Date: 05/14/2014**			
LCS1	Surfactants		0.2	0.190	mg/L	95	(90-110)		
LCS2	Surfactants		0.2	0.215	mg/L	107	(90-110)	20	12
MBLK	Surfactants			<0.05	mg/L				
MRL_CHK	Surfactants		0.05	0.0419	mg/L	84	(50-150)		
MS_201405130597	Surfactants	ND	0.2	0.210	mg/L	99	(80-120)		
MSD_201405130597	Surfactants	ND	0.2	0.201	mg/L	95	(80-120)	20	4.4
QC Ref# 769644 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0						**Analysis Date: 05/13/2014**			
LCS1	Nitrate as Nitrogen by IC		2.5	2.46	mg/L	99	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.45	mg/L	98	(90-110)	20	0.41
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0464	mg/L	93	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0127	mg/L	102	(50-150)		
MS_201405120172	Nitrate as Nitrogen by IC	0.32	1.3	1.58	mg/L	101	(80-120)		
MS_201405120169	Nitrate as Nitrogen by IC	ND	1.3	1.26	mg/L	100	(80-120)		
MSD_201405120169	Nitrate as Nitrogen by IC	ND	1.3	1.25	mg/L	100	(80-120)	20	0.80
MSD_201405120172	Nitrate as Nitrogen by IC	0.32	1.3	1.60	mg/L	102	(80-120)	20	0.63
LCS1	Nitrite Nitrogen by IC		1.0	0.972	mg/L	97	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.978	mg/L	98	(90-110)	20	0.62
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0445	mg/L	89	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0113	mg/L	90	(50-150)		
MS_201405120172	Nitrite Nitrogen by IC	ND	0.5	0.481	mg/L	96	(80-120)		
MS_201405120169	Nitrite Nitrogen by IC	ND	0.5	0.481	mg/L	96	(80-120)		
MSD_201405120169	Nitrite Nitrogen by IC	ND	0.5	0.485	mg/L	97	(80-120)	20	0.83
MSD_201405120172	Nitrite Nitrogen by IC	ND	0.5	0.484	mg/L	97	(80-120)	20	0.62
QC Ref# 769651 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						**Analysis Date: 05/13/2014**			
LCS1	Chloride		25	25.7	mg/L	103	(90-110)		
LCS2	Chloride		25	25.6	mg/L	102	(90-110)	20	0.39
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.415	mg/L	83	(50-150)		
MS_201405140949	Chloride	21	13	34.4	mg/L	105	(80-120)		
MS_201405120169	Chloride	ND	13	13.0	mg/L	102	(80-120)		
MSD_201405120169	Chloride	ND	13	12.9	mg/L	102	(80-120)	20	0.77
MSD_201405140949	Chloride	21	13	34.6	mg/L	106	(80-120)	20	0.29
LCS1	Sulfate		50	50.2	mg/L	100	(90-110)		
LCS2	Sulfate		50	49.9	mg/L	100	(90-110)	20	0.60

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.969	mg/L	97	(50-150)		
MRLLW	Sulfate		0.25	0.264	mg/L	106	(50-150)		
MS_201405120169	Sulfate	ND	25	26.0	mg/L	103	(80-120)		
MS_201405140949	Sulfate	56	25	80.1	mg/L	98	(80-120)		
MSD_201405140949	Sulfate	56	25	80.4	mg/L	99	(80-120)	20	0.37
MSD_201405120169	Sulfate	ND	25	25.8	mg/L	102	(80-120)	20	0.77
QC Ref# 769656 - Turbidity by EPA 180.1						**Analysis Date: 05/14/2014**			
DUP1_201405120117	Turbidity	0.051		0.218	NTU		(0.000-20)		
DUP2_201405130868	Turbidity	1.4		1.44	NTU		(0.000-20)	20	0.69
LCS1	Turbidity		20	21.4	NTU	107	(90-110)		
LCS2	Turbidity		20	21.5	NTU	108	(90-110)	20	0.47
MBLK	Turbidity			<0.05	NTU				
MRL_CHK	Turbidity		0.05	0.0600	NTU	120	(50-150)		
QC Ref# 769668 - Orthophosphate as P (OPO4) by 4500P-E/365.1						**Analysis Date: 05/14/2014**			
LCS1	Orthophosphate as P		0.25	0.251	mg/L	100	(90-110)		
LCS2	Orthophosphate as P		0.25	0.245	mg/L	98	(90-110)	20	2.4
MBLK	Orthophosphate as P			<0.01	mg/L				
MRL_CHK	Orthophosphate as P		0.01	0.00800	mg/L	80	(50-150)		
MS_201405130749	Orthophosphate as P	0.054	0.5	0.538	mg/L	97	(90-110)		
MS_201405140700	Orthophosphate as P	0.16	0.5	0.627	mg/L	94	(90-110)		
MSD_201405140700	Orthophosphate as P	0.16	0.5	0.629	mg/L	94	(90-110)	20	0.32
MSD_201405130749	Orthophosphate as P	0.054	0.5	0.540	mg/L	97	(90-110)	20	0.37
QC Ref# 769835 - Hexavalent chromium(Dissolved) by EPA 218.6						**Analysis Date: 05/14/2014**			
LCS1	Hexavalent chromium(Dissolved)		2.0	1.96	ug/L	98	(90-110)		
LCS2	Hexavalent chromium(Dissolved)		2.0	1.97	ug/L	98	(90-110)		
MBLK	Hexavalent chromium(Dissolved)			<0.020	ug/L				
MRL_CHK	Hexavalent chromium(Dissolved)		0.02	0.0188	ug/L	94	(50-150)		
MS_201405130749	Hexavalent chromium(Dissolved)	0.12	2.0	2.11	ug/L	99	(90-110)		
MS_201405130868	Hexavalent chromium(Dissolved)	ND	2.0	1.99	ug/L	100	(90-110)		
MSD_201405130868	Hexavalent chromium(Dissolved)	ND	2.0	2.02	ug/L	101	(90-110)	20	1.5
MSD_201405130749	Hexavalent chromium(Dissolved)	0.12	2.0	2.14	ug/L	101	(90-110)	20	1.4
QC Ref# 770122 - Odor at 60 C (TON) by SM 2150B						**Analysis Date: 05/14/2014**			
DUP1_201405140270	Odor at 60 C (TON)	1.0		1.00	TON		(0.000-20)	20	0.0
DUP2_201405130868	Odor at 60 C (TON)	67		67.0	TON		(0.000-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 770166 - Perchlorate by EPA 314.0						**Analysis Date: 05/14/2014**			
LCS1	Perchlorate		25	25.6	ug/L	102	(85-115)		
LCS2	Perchlorate		25	25.4	ug/L	102	(85-115)	15	0.78
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.05	ug/L	101	(75-125)		
MS_201405130347	Perchlorate	ND	25	27.4	ug/L	110	(80-120)		
MSD_201405130347	Perchlorate	ND	25	27.0	ug/L	108	(80-120)	15	1.1
QC Ref# 770324 - Alkalinity in CaCO3 units by SM 2320B						**Analysis Date: 05/16/2014**			
LCS1	Alkalinity in CaCO3 units		100	99.0	mg/L	99	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	98.4	mg/L	98	(90-110)	20	0.61
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	2.73	mg/L	137	(50-150)		
MS_201405130603	Alkalinity in CaCO3 units	96	100	184	mg/L	88	(80-120)		
MS_201405130749	Alkalinity in CaCO3 units	83	100	171	mg/L	89	(80-120)		
MSD_201405130603	Alkalinity in CaCO3 units	96	100	185	mg/L	89	(80-120)	20	0.54
MSD_201405130749	Alkalinity in CaCO3 units	83	100	174	mg/L	91	(80-120)	20	1.7
QC Ref# 770329 - PH (H3=past HT not compliant) by SM4500-HB						**Analysis Date: 05/16/2014**			
DUP_201405130749	PH (H3=past HT not compliant)	7.6		7.69	Units		(0-20)	20	0.52
DUP_201405130603	PH (H3=past HT not compliant)	7.3		7.33	Units		(0-20)	20	0.41
LCS1	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)	20	0.0
QC Ref# 770334 - Specific Conductance by SM2510B						**Analysis Date: 05/16/2014**			
DUP_201405130749	Specific Conductance	420		420	umho/cm		(0.000-20)	20	0.12
DUP_201405130603	Specific Conductance	680		698	umho/cm		(0.000-20)	20	2.9
LCS1	Specific Conductance		1000	1010	umho/cm	101	(95-105)		
LCS2	Specific Conductance		1000	1020	umho/cm	102	(95-105)	20	0.99
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		1.5	1.50	umho/cm	103	(50-150)		
QC Ref# 770495 - Apparent Color by SM 2120B						**Analysis Date: 05/14/2014**			
DUP1_201405140270	Apparent Color	3.0		3.00	ACU		(0.000-20)	20	0.0
DUP2_201405130868	Apparent Color	5.0		5.00	ACU		(0.000-20)	20	0.0
MBLK	Apparent Color			<3	ACU				
QC Ref# 770521 - Cyanide by SM4500CN-F						**Analysis Date: 05/19/2014**			
LCS1	Cyanide		0.1	0.104	mg/L	104	(90-110)		
LCS2	Cyanide		0.1	0.103	mg/L	103	(90-110)	20	0.97
MBLK	Cyanide			<0.025	mg/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Cyanide		0.025	0.0266	mg/L	106	(50-150)		
MS_201405140355	Cyanide	ND	0.1	0.104	mg/L	103	(80-120)		
MS_201405130584	Cyanide	ND	0.1	0.104	mg/L	97	(80-120)		
MSD_201405130584	Cyanide	ND	0.1	0.106	mg/L	99	(80-120)	20	1.9
QC Ref# 770604 - Total Dissolved Solids (TDS) by E160.1/SM2540C						**Analysis Date: 05/19/2014**			
DUP_201405130807	Total Dissolved Solid (TDS)	300		310	mg/L		(0.000-20)	20	2.6
DUP_201405140484	Total Dissolved Solid (TDS)	290		290	mg/L		(0.000-20)	20	1.4
LCS1	Total Dissolved Solid (TDS)		175	170	mg/L	97	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	706	mg/L	101	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		
QC Ref# 770692 - Aldicarbs by EPA 531.2						**Analysis Date: 05/19/2014**			
CCCH	3-Hydroxycarbofuran		25	24.8	ug/L	99	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.1	ug/L	101	(70-130)		
LCS2	3-Hydroxycarbofuran			4.79	ug/L				
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.538	ug/L	108	(50-150)		
MS1_201405090599	3-Hydroxycarbofuran	ND	5.0	4.91	ug/L	98	(70-130)		
MSD1_201405090599	3-Hydroxycarbofuran	ND	5.0	4.87	ug/L	97	(70-130)	20	0.82
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		111	%	111	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		104	%	104	(70-130)		
LCS2	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		78.6	%	79	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		101	%	101	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		96.4	%	96	(70-130)		
MS1_201405090599	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		106	%	106	(70-130)		
MSD1_201405090599	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		111	%	111	(70-130)		
CCCH	Aldicarb (Temik)		25	19.9	ug/L	80	(70-130)		
CCCM	Aldicarb (Temik)		10	7.82	ug/L	78	(70-130)		
LCS2	Aldicarb (Temik)			4.95	ug/L				
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.547	ug/L	109	(50-150)		
MS1_201405090599	Aldicarb (Temik)	ND	5.0	5.54	ug/L	111	(70-130)		
MSD1_201405090599	Aldicarb (Temik)	ND	5.0	5.10	ug/L	102	(70-130)	20	8.3
CCCH	Aldicarb sulfone		25	25.0	ug/L	100	(70-130)		
CCCM	Aldicarb sulfone		10	9.60	ug/L	96	(70-130)		
LCS2	Aldicarb sulfone			4.44	ug/L				
MBLK	Aldicarb sulfone			<0.16	ug/L				

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Laboratory QC
Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Aldicarb sulfone		0.5	0.548	ug/L	110	(50-150)		
MS1_201405090599	Aldicarb sulfone	ND	5.0	5.77	ug/L	115	(70-130)		
MSD1_201405090599	Aldicarb sulfone	ND	5.0	5.33	ug/L	107	(70-130)	20	7.9
CCCH	Aldicarb sulfoxide		25	23.0	ug/L	92	(70-130)		
CCCM	Aldicarb sulfoxide		10	8.66	ug/L	87	(70-130)		
LCS2	Aldicarb sulfoxide			4.84	ug/L				
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.517	ug/L	103	(50-150)		
MS1_201405090599	Aldicarb sulfoxide	ND	5.0	5.25	ug/L	105	(70-130)		
MSD1_201405090599	Aldicarb sulfoxide	ND	5.0	5.07	ug/L	101	(70-130)	20	3.5
CCCH	Baygon		25	24.4	ug/L	98	(70-130)		
CCCM	Baygon		10	9.72	ug/L	97	(70-130)		
LCS2	Baygon			4.62	ug/L				
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.585	ug/L	117	(50-150)		
MS1_201405090599	Baygon	ND	5.0	5.23	ug/L	105	(70-130)		
MSD1_201405090599	Baygon	ND	5.0	5.14	ug/L	103	(70-130)	20	1.7
CCCH	Carbaryl		25	25.7	ug/L	103	(70-130)		
CCCM	Carbaryl		10	10.3	ug/L	103	(70-130)		
LCS2	Carbaryl			5.41	ug/L				
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.520	ug/L	104	(50-150)		
MS1_201405090599	Carbaryl	ND	5.0	5.29	ug/L	106	(70-130)		
MSD1_201405090599	Carbaryl	ND	5.0	5.17	ug/L	103	(70-130)	20	2.3
CCCH	Carbofuran (Furadan)		25	25.2	ug/L	101	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.3	ug/L	103	(70-130)		
LCS2	Carbofuran (Furadan)			4.80	ug/L				
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.574	ug/L	115	(50-150)		
MS1_201405090599	Carbofuran (Furadan)	ND	5.0	4.76	ug/L	95	(70-130)		
MSD1_201405090599	Carbofuran (Furadan)	ND	5.0	5.11	ug/L	102	(70-130)	20	7.1
CCCH	Methiocarb		25	24.3	ug/L	97	(70-130)		
CCCM	Methiocarb		10	10.1	ug/L	101	(70-130)		
LCS2	Methiocarb			5.30	ug/L				
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.376	ug/L	75	(50-150)		
MS1_201405090599	Methiocarb	ND	5.0	5.36	ug/L	107	(70-130)		
MSD1_201405090599	Methiocarb	ND	5.0	5.57	ug/L	111	(70-130)	20	3.8

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Laboratory QC
Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Methomyl		25	23.6	ug/L	94	(70-130)		
CCCM	Methomyl		10	9.64	ug/L	96	(70-130)		
LCS2	Methomyl			4.68	ug/L				
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.359	ug/L	72	(50-150)		
MS1_201405090599	Methomyl	ND	5.0	4.93	ug/L	99	(70-130)		
MSD1_201405090599	Methomyl	ND	5.0	5.14	ug/L	103	(70-130)	20	4.4
CCCH	Oxamyl (Vydate)		25	25.3	ug/L	101	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.97	ug/L	100	(70-130)		
LCS2	Oxamyl (Vydate)			4.54	ug/L				
MBLK	Oxamyl (Vydate)			<0.16	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.463	ug/L	93	(50-150)		
MS1_201405090599	Oxamyl (Vydate)	ND	5.0	5.00	ug/L	100	(70-130)		
MSD1_201405090599	Oxamyl (Vydate)	ND	5.0	5.06	ug/L	101	(70-130)	20	1.2
QC Ref# 770819 - EDB/DBCP/HAN by EPA 551.1 by EPA 551.1						**Analysis Date: 05/19/2014**			
CCC3	1,2-Dibromopropane (S)			91.6	%	92	(80-120)		
CCCM2	1,2-Dibromopropane (S)			97.3	%	97	(80-120)		
DUP1_201405160171	1,2-Dibromopropane (S)			95.6	%	96	(80-120)		
DUP2_201405150491	1,2-Dibromopropane (S)			90.1	%	90	(80-120)		
LCS2	1,2-Dibromopropane (S)			104	%	104	(80-120)		
MBLK	1,2-Dibromopropane (S)			95.5	%	95	(80-120)		
MRL_CHK	1,2-Dibromopropane (S)			91.9	%	92	(80-120)		
MS_201405150489	1,2-Dibromopropane (S)			96.4	%	96	(80-120)		
MS2_201405130749	1,2-Dibromopropane (S)			93.9	%	94	(80-120)		
CCC3	Dibromochloropropane (DBCP)		0.25	0.244	ug/L	98	(80-120)		
CCCM2	Dibromochloropropane (DBCP)		0.05	0.0517	ug/L	103	(80-120)		
DUP1_201405160171	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0-20)		
DUP2_201405150491	Dibromochloropropane (DBCP)	ND		ND	ug/L		(0-20)		
LCS2	Dibromochloropropane (DBCP)		0.25	0.254	ug/L	102	(80-120)		
MBLK	Dibromochloropropane (DBCP)			<0.01	ug/L				
MRL_CHK	Dibromochloropropane (DBCP)		0.01	0.0114	ug/L	114	(50-150)		
MS_201405150489	Dibromochloropropane (DBCP)	ND	0.25	0.252	ug/L	101	(80-120)		
MS2_201405130749	Dibromochloropropane (DBCP)	ND	0.05	0.0501	ug/L	100	(80-120)		
CCC3	Ethylene Dibromide (EDB)		0.25	0.244	ug/L	98	(80-120)		
CCCM2	Ethylene Dibromide (EDB)		0.05	0.0538	ug/L	108	(80-120)		
DUP1_201405160171	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
DUP2_201405150491	Ethylene Dibromide (EDB)	ND		ND	ug/L		(0-20)		
LCS2	Ethylene Dibromide (EDB)		0.25	0.274	ug/L	109	(80-120)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Ethylene Dibromide (EDB)			<0.01	ug/L				
MRL_CHK	Ethylene Dibromide (EDB)		0.01	0.0121	ug/L	121	(50-150)		
MS_201405150489	Ethylene Dibromide (EDB)	ND	0.25	0.252	ug/L	101	(80-120)		
MS2_201405130749	Ethylene Dibromide (EDB)	ND	0.05	0.0489	ug/L	98	(80-120)		
QC Ref# 771224 - Endothall by EPA 548.1						**Analysis Date: 05/21/2014**			
LCS1	Endothall		25	23.7	ug/L	95	(70-130)		
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5.0	6.10	ug/L	122	(50-150)		
MS_201405130749	Endothall	ND	25	23.3	ug/L	93	(70-130)		
MS_2ND_201405160353	Endothall	ND	25	22.4	ug/L	90	(70-130)		
MSD_201405130749	Endothall	ND	25	22.3	ug/L	89	(70-130)	30	4.4
QC Ref# 771291 - Diquat and Paraquat by EPA 549.2						**Analysis Date: 05/20/2014**			
CCCH	Diquat		10	10.5	ug/L	105	(80-120)		
CCCL	Diquat		0.4	0.396	ug/L	99	(80-120)		
CCCM	Diquat		4.0	4.04	ug/L	101	(80-120)		
LCS1	Diquat		5.0	4.29	ug/L	86	(70-130)		
LCS2	Diquat		5.0	4.08	ug/L	82	(70-130)	20	5.0
MBLK	Diquat			<0.2	ug/L				
MRL_CHK	Diquat		0.4	0.368	ug/L	92	(50-150)		
MS_201405150324	Diquat	ND	5.0	3.70	ug/L	74	(70-130)		
MS2_201405130628	Diquat	ND	5.0	4.28	ug/L	86	(70-130)		
MSD_201405150324	Diquat	ND	5.0	3.80	ug/L	76	(70-130)	20	2.7
CCCH	Paraquat		10	9.30	ug/L	93	(80-120)		
CCCL	Paraquat		2.0	2.10	ug/L	105	(80-120)		
CCCM	Paraquat		4.0	3.81	ug/L	95	(80-120)		
LCS1	Paraquat		5.0	4.09	ug/L	82	(70-130)		
LCS2	Paraquat		5.0	3.90	ug/L	78	(70-130)	20	4.8
MBLK	Paraquat			<1	ug/L				
MRL_CHK	Paraquat		2.0	1.74	ug/L	87	(50-150)		
MS_201405150324	Paraquat	ND	5.0	3.65	ug/L	73	(70-130)		
MS2_201405130628	Paraquat	ND	5.0	4.10	ug/L	82	(70-130)		
MSD_201405150324	Paraquat	ND	5.0	3.62	ug/L	72	(70-130)	20	0.83
QC Ref# 771317 - ICP Metals by EPA 200.7						**Analysis Date: 05/21/2014**			
LCS1	Calcium Total ICAP		50	48.9	mg/L	98	(85-115)		
LCS2	Calcium Total ICAP		50	49.4	mg/L	99	(85-115)	20	1.0
MBLK	Calcium Total ICAP			<0.5	mg/L				
MRL_CHK	Calcium Total ICAP		1.0	1.01	mg/L	101	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405210157	Calcium Total ICAP	9.4	50	57.1	mg/L	95	(70-130)		
MS2_201405190198	Calcium Total ICAP	ND	50	50.0	mg/L	100	(70-130)		
MSD_201405210157	Calcium Total ICAP	9.4	50	58.6	mg/L	98	(70-130)	20	2.6
MSD2_201405190198	Calcium Total ICAP	ND	50	48.8	mg/L	98	(70-130)	20	2.4
LCS1	Dissolved Silica		21	22.9	mg/L	107	(85-115)		
LCS2	Dissolved Silica		21	23.1	mg/L	108	(85-115)	20	0.87
MBLK	Dissolved Silica			<0.211	mg/L				
MRL_CHK	Dissolved Silica		0.42	0.447	mg/L	106	(50-150)		
MS_201405210157	Dissolved Silica	0.91	21	24.2	mg/L	109	(70-130)		
MS2_201405190198	Dissolved Silica	0.86	21	25.0	mg/L	113	(70-130)		
MSD_201405210157	Dissolved Silica	0.91	21	24.5	mg/L	110	(70-130)	20	1.2
MSD2_201405190198	Dissolved Silica	0.86	21	24.7	mg/L	111	(70-130)	20	1.2
LCS1	Iron Total ICAP		5.0	5.01	mg/L	100	(85-115)		
LCS2	Iron Total ICAP		5.0	5.06	mg/L	101	(85-115)	20	0.99
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0203	mg/L	102	(50-150)		
MS_201405210157	Iron Total ICAP	ND	5.0	4.94	mg/L	99	(70-130)		
MS2_201405190198	Iron Total ICAP	ND	5.0	5.12	mg/L	103	(70-130)		
MSD_201405210157	Iron Total ICAP	ND	5.0	5.02	mg/L	100	(70-130)	20	1.8
MSD2_201405190198	Iron Total ICAP	ND	5.0	5.00	mg/L	100	(70-130)	20	2.6
LCS1	Magnesium Total ICAP		20	20.4	mg/L	102	(85-115)		
LCS2	Magnesium Total ICAP		20	20.6	mg/L	103	(85-115)	20	0.98
MBLK	Magnesium Total ICAP			<0.05	mg/L				
MRL_CHK	Magnesium Total ICAP		0.1	0.106	mg/L	106	(50-150)		
MS_201405210157	Magnesium Total ICAP	3.4	20	23.4	mg/L	100	(70-130)		
MS2_201405190198	Magnesium Total ICAP	ND	20	20.9	mg/L	105	(70-130)		
MSD_201405210157	Magnesium Total ICAP	3.4	20	23.9	mg/L	103	(70-130)	20	2.1
MSD2_201405190198	Magnesium Total ICAP	ND	20	20.5	mg/L	102	(70-130)	20	1.9
LCS1	Potassium Total ICAP		20	19.6	mg/L	98	(85-115)		
LCS2	Potassium Total ICAP		20	19.8	mg/L	99	(85-115)	20	1.0
MBLK	Potassium Total ICAP			<0.5	mg/L				
MRL_CHK	Potassium Total ICAP		1.0	0.955	mg/L	96	(50-150)		
MS_201405210157	Potassium Total ICAP	1.2	20	20.6	mg/L	97	(70-130)		
MS2_201405190198	Potassium Total ICAP	ND	20	20.2	mg/L	100	(70-130)		
MSD_201405210157	Potassium Total ICAP	1.2	20	21.1	mg/L	99	(70-130)	20	2.4
MSD2_201405190198	Potassium Total ICAP	ND	20	20.0	mg/L	99	(70-130)	20	1
LCS1	Sodium Total ICAP		50	48.9	mg/L	98	(85-115)		
LCS2	Sodium Total ICAP		50	49.4	mg/L	99	(85-115)	20	1.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Sodium Total ICAP			<0.5	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.01	mg/L	101	(50-150)		
MS_201405210157	Sodium Total ICAP	44	50	90.6	mg/L	93	(70-130)		
MS2_201405190198	Sodium Total ICAP	1.9	50	50.8	mg/L	98	(70-130)		
MSD_201405210157	Sodium Total ICAP	44	50	93.1	mg/L	98	(70-130)	20	2.7
MSD2_201405190198	Sodium Total ICAP	1.9	50	49.6	mg/L	95	(70-130)	20	2.4
QC Ref# 771471 - Organochlorine Pesticides/PCBs by EPA 505						**Analysis Date: 05/19/2014**			
CCCH	Alachlor (Alanex)		1.0	1.04	ug/L	104	(70-130)		
CCCH	Alachlor (Alanex)		1.0	1.03	ug/L	103	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.109	ug/L	109	(50-150)		
MS1_201405130749	Alachlor (Alanex)	ND	0.2	0.209	ug/L	105	(65-135)		
MS2_201405140487	Alachlor (Alanex)	ND	1.0	0.987	ug/L	99	(65-135)		
CCCH	Aldrin		0.1	0.109	ug/L	109	(70-130)		
CCCH	Aldrin		0.1	0.113	ug/L	113	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0108	ug/L	108	(50-150)		
MS1_201405130749	Aldrin	ND	0.02	0.0221	ug/L	111	(65-135)		
MS2_201405140487	Aldrin	ND	0.1	0.117	ug/L	117	(65-135)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.0999	ug/L	100	(70-130)		
CCCH	Dieldrin		0.1	0.102	ug/L	102	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.00980	ug/L	98	(50-150)		
MS1_201405130749	Dieldrin	ND	0.02	0.0196	ug/L	98	(65-135)		
MS2_201405140487	Dieldrin	ND	0.1	0.101	ug/L	101	(65-135)		
CCCH	Endrin		0.1	0.0983	ug/L	98	(70-130)		
CCCH	Endrin		0.1	0.0986	ug/L	99	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.0121	ug/L	121	(50-150)		
MS1_201405130749	Endrin	ND	0.02	0.0221	ug/L	111	(65-135)		
MS2_201405140487	Endrin	ND	0.1	0.101	ug/L	101	(65-135)		
CCCH	Heptachlor		0.1	0.0994	ug/L	99	(70-130)		
CCCH	Heptachlor		0.1	0.0985	ug/L	99	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00970	ug/L	97	(50-150)		
MS1_201405130749	Heptachlor	ND	0.02	0.0203	ug/L	100	(65-135)		
MS2_201405140487	Heptachlor	ND	0.1	0.105	ug/L	105	(65-135)		

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Laboratory QC
Report: 481285

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCH	Heptachlor Epoxide		0.1	0.103	ug/L	103	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.101	ug/L	101	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.0122	ug/L	122	(50-150)		
MS1_201405130749	Heptachlor Epoxide	ND	0.02	0.0171	ug/L	86	(65-135)		
MS2_201405140487	Heptachlor Epoxide	ND	0.1	0.103	ug/L	103	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.0994	ug/L	99	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.101	ug/L	101	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0117	ug/L	117	(50-150)		
MS1_201405130749	Lindane (gamma-BHC)	ND	0.02	0.0217	ug/L	109	(65-135)		
MS2_201405140487	Lindane (gamma-BHC)	ND	0.1	0.102	ug/L	101	(65-135)		
CCCH	Methoxychlor		0.5	0.557	ug/L	111	(70-130)		
CCCH	Methoxychlor		0.5	0.477	ug/L	95	(70-130)		
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0445	ug/L	89	(50-150)		
MS1_201405130749	Methoxychlor	ND	0.1	0.118	ug/L	118	(65-135)		
MS2_201405140487	Methoxychlor	ND	0.5	0.570	ug/L	114	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Tetrachlorometaxylene (S)			118	%	118	(70-130)		
CCCH	Tetrachlorometaxylene (S)			117	%	117	(70-130)		
MBLK	Tetrachlorometaxylene (S)			117	%	117	(70-130)		
MRL_CHK	Tetrachlorometaxylene (S)			91.2	%	91	(70-130)		
MS1_201405130749	Tetrachlorometaxylene (S)			116	%	116	(70-130)		
MS2_201405140487	Tetrachlorometaxylene (S)			119	%	119	(70-130)		
MBLK	Total PCBs			<0.08	ug/L				
CCCH	Toxaphene		2.5	2.17	ug/L	87	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.438	ug/L	88	(50-150)		
MS1_201405130749	Toxaphene	ND	2.5	2.32	ug/L	93	(65-135)		
MS2_201405140487	Toxaphene		2.5	2.30	ug/L	92	(65-135)		

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Laboratory QC
Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 771764 - Glyphosate by EPA 547						**Analysis Date: 05/23/2014**			
CCCH	Glyphosate		25	22.7	ug/L	91	(80-120)		
CCCM	Glyphosate		10	9.22	ug/L	92	(80-120)		
LCS1	Glyphosate		10	9.15	ug/L	92	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.61	ug/L	94	(50-150)		
MS_201405130749	Glyphosate	ND	10	9.72	ug/L	97	(70-130)		
MS2_201405130702	Glyphosate	ND	10	9.75	ug/L	98	(70-130)		
MSD_201405130749	Glyphosate	ND	10	9.08	ug/L	91	(70-130)	20	6.8
QC Ref# 771904 - Fluoride by SM 4500F-C						**Analysis Date: 05/23/2014**			
LCS1	Fluoride		1.0	0.927	mg/L	93	(81-116)		
LCS2	Fluoride		1.0	1.10	mg/L	110	(81-116)	20	17
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0522	mg/L	104	(50-150)		
MS_201405130749	Fluoride	0.54	1.0	1.76	mg/L	**121**	(80-120)		
MSD_201405130749	Fluoride	0.54	1.0	1.73	mg/L	119	(80-120)	20	1.7
QC Ref# 772192 - Chlorophenoxy Herbicides by EPA 515.4						**Analysis Date: 05/22/2014**			
CCCH	2,4,5-T		4.0	4.19	ug/L	105	(70-130)		
CCCM	2,4,5-T		1.0	1.08	ug/L	108	(70-130)		
LCS1	2,4,5-T		3.0	2.99	ug/L	100	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.139	ug/L	69	(50-150)		
MS1_201405130749	2,4,5-T	ND	3.0	3.54	ug/L	118	(70-130)		
MSD1_201405130749	2,4,5-T	ND	3.0	3.64	ug/L	121	(70-130)	30	2.8
CCCH	2,4,5-TP (Silvex)		4.0	4.11	ug/L	103	(70-130)		
CCCM	2,4,5-TP (Silvex)		1.0	1.01	ug/L	101	(70-130)		
LCS1	2,4,5-TP (Silvex)		3.0	2.82	ug/L	94	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.207	ug/L	104	(50-150)		
MS1_201405130749	2,4,5-TP (Silvex)	ND	3.0	3.35	ug/L	111	(70-130)		
MSD1_201405130749	2,4,5-TP (Silvex)	ND	3.0	3.41	ug/L	113	(70-130)	30	1.8
CCCH	2,4-D		2.0	2.14	ug/L	107	(70-130)		
CCCM	2,4-D		0.5	0.470	ug/L	94	(70-130)		
LCS1	2,4-D		1.5	1.48	ug/L	99	(70-130)		
MBLK	2,4-D			<0.033	ug/L				
MRL_CHK	2,4-D		0.1	0.0896	ug/L	90	(50-150)		
MS1_201405130749	2,4-D	ND	1.5	1.70	ug/L	113	(70-130)		

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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201405130749	2,4-D	ND	1.5	1.72	ug/L	115	(70-130)	30	1.8
CCCH	2,4-DB		40	41.2	ug/L	103	(70-130)		
CCCM	2,4-DB		10	9.79	ug/L	98	(70-130)		
LCS1	2,4-DB		30	28.2	ug/L	94	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2.0	1.91	ug/L	96	(50-150)		
MS1_201405130749	2,4-DB	ND	30	33.6	ug/L	112	(70-130)		
MSD1_201405130749	2,4-DB	ND	30	34.9	ug/L	116	(70-130)	30	3.8
CCCH	2,4-Dichlorophenyl acetic acid (S)			105	%	105	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)			102	%	102	(70-130)		
LCS1	2,4-Dichlorophenyl acetic acid (S)			93.3	%	93	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			100	%	100	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			97.8	%	98	(70-130)		
MS1_201405130749	2,4-Dichlorophenyl acetic acid (S)			119	%	119	(70-130)		
MSD1_201405130749	2,4-Dichlorophenyl acetic acid (S)			122	%	122	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	10.2	ug/L	102	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.47	ug/L	99	(70-130)		
LCS1	3,5-Dichlorobenzoic acid		7.5	7.26	ug/L	97	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.377	ug/L	75	(50-150)		
MS1_201405130749	3,5-Dichlorobenzoic acid	ND	7.5	7.78	ug/L	103	(70-130)		
MSD1_201405130749	3,5-Dichlorobenzoic acid	ND	7.5	7.87	ug/L	104	(70-130)	30	1.1
CCCH	4,4-Dibromooctafluorobiphenyl (I)			96.9	%	97	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			104	%	104	(50-150)		
LCS1	4,4-Dibromooctafluorobiphenyl (I)			96.7	%	97	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			107	%	107	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)			104	%	104	(50-150)		
MS1_201405130749	4,4-Dibromooctafluorobiphenyl (I)			79.4	%	79	(50-150)		
MSD1_201405130749	4,4-Dibromooctafluorobiphenyl (I)			78.4	%	78	(50-150)		
CCCH	Acifluorfen		4.0	4.16	ug/L	104	(70-130)		
CCCM	Acifluorfen		1.0	1.02	ug/L	102	(70-130)		
LCS1	Acifluorfen		3.0	2.91	ug/L	97	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.200	ug/L	100	(50-150)		
MS1_201405130749	Acifluorfen	ND	3.0	3.47	ug/L	116	(70-130)		
MSD1_201405130749	Acifluorfen	ND	3.0	3.55	ug/L	118	(70-130)	30	2.3
CCCH	Bentazon		10	10.8	ug/L	108	(70-130)		
CCCM	Bentazon		2.5	2.46	ug/L	98	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bentazon		7.5	7.13	ug/L	95	(70-130)		
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.452	ug/L	91	(50-150)		
MS1_201405130749	Bentazon	ND	7.5	8.93	ug/L	119	(70-130)		
MSD1_201405130749	Bentazon	ND	7.5	8.93	ug/L	119	(70-130)	30	0.0
CCCH	Dalapon		20	20.3	ug/L	102	(70-130)		
CCCM	Dalapon		5.0	5.29	ug/L	106	(70-130)		
LCS1	Dalapon		15	14.8	ug/L	99	(70-130)		
MBLK	Dalapon			<0.333	ug/L				
MRL_CHK	Dalapon		1.0	0.900	ug/L	90	(50-150)		
MS1_201405130749	Dalapon	ND	15	17.9	ug/L	120	(70-130)		
MSD1_201405130749	Dalapon	ND	15	17.9	ug/L	119	(70-130)	30	0.0
CCCH	Dicamba		2.0	2.06	ug/L	103	(70-130)		
CCCM	Dicamba		0.5	0.534	ug/L	107	(70-130)		
LCS1	Dicamba		1.5	1.60	ug/L	107	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.127	ug/L	127	(50-150)		
MS1_201405130749	Dicamba	ND	1.5	1.59	ug/L	106	(70-130)		
MSD1_201405130749	Dicamba	ND	1.5	1.58	ug/L	106	(70-130)	30	0.63
CCCH	Dichlorprop		10	10.2	ug/L	103	(70-130)		
CCCM	Dichlorprop		2.5	2.28	ug/L	91	(70-130)		
LCS1	Dichlorprop		7.5	7.58	ug/L	101	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.422	ug/L	84	(50-150)		
MS1_201405130749	Dichlorprop	ND	7.5	8.31	ug/L	111	(70-130)		
MSD1_201405130749	Dichlorprop	ND	7.5	8.18	ug/L	109	(70-130)	30	1.6
CCCH	Dinoseb		4.0	4.10	ug/L	102	(70-130)		
CCCM	Dinoseb		1.0	0.997	ug/L	100	(70-130)		
LCS1	Dinoseb		3.0	2.77	ug/L	92	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.174	ug/L	87	(50-150)		
MS1_201405130749	Dinoseb	ND	3.0	3.23	ug/L	108	(70-130)		
MSD1_201405130749	Dinoseb	ND	3.0	3.28	ug/L	109	(70-130)	30	1.5
CCCH	Pentachlorophenol		0.8	0.834	ug/L	104	(70-130)		
CCCM	Pentachlorophenol		0.2	0.199	ug/L	99	(70-130)		
LCS1	Pentachlorophenol		0.6	0.601	ug/L	100	(70-130)		
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0367	ug/L	92	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS1_201405130749	Pentachlorophenol	ND	0.6	0.714	ug/L	119	(70-130)		
MSD1_201405130749	Pentachlorophenol	ND	0.6	0.724	ug/L	121	(70-130)	30	1.4
CCCH	Picloram		2.0	2.06	ug/L	103	(70-130)		
CCCM	Picloram		0.5	0.531	ug/L	106	(70-130)		
LCS1	Picloram		1.5	1.53	ug/L	102	(70-130)		
MBLK	Picloram			<0.033	ug/L				
MRL_CHK	Picloram		0.1	0.0739	ug/L	74	(50-150)		
MS1_201405130749	Picloram	ND	1.5	1.78	ug/L	119	(70-130)		
MSD1_201405130749	Picloram	ND	1.5	1.78	ug/L	118	(70-130)	30	0.56
CCCH	Tot DCPA Mono&Diacid Degradate		2.0	2.08	ug/L	104	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.498	ug/L	100	(70-130)		
LCS1	Tot DCPA Mono&Diacid Degradate		1.5	1.91	ug/L	128	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.115	ug/L	115	(50-150)		
MS1_201405130749	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.73	ug/L	115	(70-130)		
MSD1_201405130749	Tot DCPA Mono&Diacid Degradate	ND	1.5	1.77	ug/L	118	(70-130)	30	2.3
QC Ref# 772268 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 05/27/2014**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	5.10	ug/L	102	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	5.24	ug/L	105	(70-130)	20	2.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	5.41	ug/L	108	(70-130)	20	8.7
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.59	ug/L	92	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.83	ug/L	97	(70-130)	20	5.1
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	4.90	ug/L	98	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.33	ug/L	107	(70-130)	20	8.4
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.07	ug/L	101	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.61	ug/L	112	(70-130)	20	10
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.79	ug/L	96	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 481285

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,1-Dichloroethylene		5.0	5.44	ug/L	109	(70-130)	20	13
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.38	ug/L	108	(70-130)	20	6.7
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.33	ug/L	107	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.75	ug/L	115	(70-130)	20	7.6
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	4.81	ug/L	96	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.09	ug/L	102	(70-130)	20	5.7
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.30	ug/L	106	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.55	ug/L	111	(70-130)	20	4.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.82	ug/L	116	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	6.22	ug/L	124	(70-130)	20	6.6
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2-Dichloroethane		5.0	4.93	ug/L	99	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.42	ug/L	108	(70-130)	20	9.5
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			98.2	%	98	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.46	ug/L	109	(70-130)	20	10
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.55	ug/L	111	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.93	ug/L	119	(70-130)	20	6.6

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3-Dichloropropane		5.0	4.91	ug/L	98	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.38	ug/L	108	(70-130)	20	9.1
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	2,2-Dichloropropane		5.0	5.52	ug/L	110	(70-130)		
LCS2	2,2-Dichloropropane		5.0	5.59	ug/L	112	(70-130)	20	1.3
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.600	ug/L	120	(50-150)		
LCS1	2-Butanone (MEK)		50	37.8	ug/L	76	(70-130)		
LCS2	2-Butanone (MEK)		50	39.9	ug/L	80	(70-130)	20	5.4
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	6.42	ug/L	128	(50-150)		
LCS1	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	47.9	ug/L	96	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	52.5	ug/L	105	(70-130)	20	9.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.43	ug/L	109	(50-150)		
LCS1	Benzene		5.0	4.99	ug/L	100	(70-130)		
LCS2	Benzene		5.0	5.41	ug/L	108	(70-130)	20	8.1
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromobenzene		5.0	5.05	ug/L	101	(70-130)		
LCS2	Bromobenzene		5.0	5.49	ug/L	110	(70-130)	20	8.3
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromochloromethane		5.0	4.89	ug/L	98	(70-130)		
LCS2	Bromochloromethane		5.0	5.77	ug/L	115	(70-130)	20	17
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromodichloromethane		5.0	4.27	ug/L	85	(70-130)		
LCS2	Bromodichloromethane		5.0	4.85	ug/L	97	(70-130)	20	13
MBLK	Bromodichloromethane			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Bromodichloromethane		0.5	0.400	ug/L	80	(50-150)		
LCS1	Bromoethane		5.0	4.65	ug/L	93	(70-130)		
LCS2	Bromoethane		5.0	5.46	ug/L	109	(70-130)	20	16
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Bromoform		5.0	4.58	ug/L	92	(70-130)		
LCS2	Bromoform		5.0	4.80	ug/L	96	(70-130)	20	4.7
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.62	ug/L	112	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.75	ug/L	115	(70-130)	20	2.3
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.580	ug/L	116	(50-150)		
LCS1	Carbon disulfide		5.0	3.62	ug/L	72	(70-130)		
LCS2	Carbon disulfide		5.0	3.65	ug/L	73	(70-130)	20	0.83
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.340	ug/L	68	(50-150)		
LCS1	Carbon Tetrachloride		5.0	4.79	ug/L	96	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.07	ug/L	101	(70-130)	20	5.7
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.430	ug/L	86	(50-150)		
LCS1	Chlorobenzene		5.0	5.08	ug/L	102	(70-130)		
LCS2	Chlorobenzene		5.0	5.55	ug/L	111	(70-130)	20	8.8
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	Chlorodibromomethane		5.0	4.30	ug/L	86	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.55	ug/L	91	(70-130)	20	5.7
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Chloroethane		5.0	5.86	ug/L	117	(70-130)		
LCS2	Chloroethane		5.0	5.79	ug/L	116	(70-130)	20	1.2
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.13	ug/L	103	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.46	ug/L	109	(70-130)	20	6.2
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	6.25	ug/L	125	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chloromethane(Methyl Chloride)		5.0	6.40	ug/L	128	(70-130)	20	2.4
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.650	ug/L	130	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	4.87	ug/L	97	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.34	ug/L	107	(70-130)	20	9.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	4.94	ug/L	99	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.37	ug/L	107	(70-130)	20	8.3
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Dibromomethane		5.0	4.86	ug/L	97	(70-130)		
LCS2	Dibromomethane		5.0	5.36	ug/L	107	(70-130)	20	9.8
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	6.47	ug/L	129	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	6.87	ug/L	**137**	(70-130)	20	6.0
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Dichloromethane		5.0	4.58	ug/L	92	(70-130)		
LCS2	Dichloromethane		5.0	5.32	ug/L	106	(70-130)	20	15
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.650	ug/L	130	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.90	ug/L	98	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.08	ug/L	102	(70-130)	20	3.6
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.620	ug/L	124	(50-150)		
LCS1	Ethyl benzene		5.0	5.14	ug/L	103	(70-130)		
LCS2	Ethyl benzene		5.0	5.57	ug/L	111	(70-130)	20	8.0
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Hexachlorobutadiene		5.0	5.19	ug/L	104	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.60	ug/L	112	(70-130)	20	7.6
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Isopropylbenzene		5.0	5.48	ug/L	110	(70-130)		
LCS2	Isopropylbenzene		5.0	5.80	ug/L	116	(70-130)	20	5.7
MBLK	Isopropylbenzene			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Isopropylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	m,p-Xylenes		10	10.6	ug/L	107	(70-130)		
LCS2	m,p-Xylenes		10	11.5	ug/L	115	(70-130)	20	7.2
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.01	ug/L	101	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.520	ug/L	104	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.57	ug/L	111	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.82	ug/L	116	(70-130)	20	4.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.75	ug/L	95	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.06	ug/L	101	(70-130)	20	6.3
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.640	ug/L	128	(50-150)		
LCS1	Naphthalene		5.0	5.24	ug/L	105	(70-130)		
LCS2	Naphthalene		5.0	5.79	ug/L	116	(70-130)	20	10
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Butylbenzene		5.0	5.61	ug/L	112	(70-130)		
LCS2	n-Butylbenzene		5.0	6.10	ug/L	122	(70-130)	20	8.4
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	n-Propylbenzene		5.0	5.88	ug/L	118	(70-130)		
LCS2	n-Propylbenzene		5.0	6.22	ug/L	124	(70-130)	20	5.6
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.41	ug/L	108	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.86	ug/L	117	(70-130)	20	8.0
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.16	ug/L	103	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.53	ug/L	111	(70-130)	20	6.9
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	o-Xylene		5.0	4.97	ug/L	99	(70-130)		
LCS2	o-Xylene		5.0	5.51	ug/L	110	(70-130)	20	10
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.490	ug/L	98	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	p-Chlorotoluene		5.0	5.51	ug/L	110	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.79	ug/L	116	(70-130)	20	5.0
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.70	ug/L	114	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.83	ug/L	117	(70-130)	20	2.3
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.63	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.98	ug/L	120	(70-130)	20	6.0
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.68	ug/L	114	(70-130)	20	7.3
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Styrene		5.0	5.21	ug/L	104	(70-130)		
LCS2	Styrene		5.0	5.61	ug/L	112	(70-130)	20	7.4
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.500	ug/L	100	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.55	ug/L	91	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.88	ug/L	98	(70-130)	20	7.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.500	ug/L	100	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.14	ug/L	103	(70-130)	20	4.0
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.70	ug/L	114	(70-130)	20	8.6
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	4.96	ug/L	99	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.39	ug/L	108	(70-130)	20	8.3
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Toluene		5.0	5.07	ug/L	101	(70-130)		
LCS2	Toluene		5.0	5.49	ug/L	110	(70-130)	20	8.0

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 481285

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			104	%	104	(70-130)		
MBLK	Toluene-d8 (S)			98.8	%	99	(70-130)		
MRL_CHK	Toluene-d8 (S)			103	%	103	(70-130)		
MRLLW	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.35	ug/L	87	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.13	ug/L	103	(70-130)	20	17
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.610	ug/L	122	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.00	ug/L	100	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.38	ug/L	108	(70-130)	20	7.3
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.620	ug/L	124	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	5.15	ug/L	103	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.41	ug/L	108	(70-130)	20	4.9
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorofluoromethane		5.0	5.25	ug/L	105	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.45	ug/L	109	(70-130)	20	3.7
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.93	ug/L	99	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.37	ug/L	107	(70-130)	20	8.5
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.560	ug/L	112	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.91	ug/L	118	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	6.03	ug/L	121	(70-130)	20	2.0
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.630	ug/L	126	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.300	ug/L	120	(50-150)		
QC Ref# 772357 - Mercury Total by EPA 245.1						**Analysis Date: 05/27/2014**			
LCS1	Mercury		1.5	1.65	ug/L	110	(85-115)		
LCS2	Mercury		1.5	1.65	ug/L	110	(85-115)	20	0.0
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.233	ug/L	117	(50-150)		
MS_201405160353	Mercury	ND	1.5	1.62	ug/L	107	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405130536	Mercury	ND	1.5	1.64	ug/L	109	(70-130)		
MSD_201405160353	Mercury	ND	1.5	1.58	ug/L	105	(70-130)	20	2.5
MSD_201405130536	Mercury	ND	1.5	1.69	ug/L	111	(70-130)	20	2.4
QC Ref# 772969 - Gross Alpha by Co-precipitation by SM 7110C						**Analysis Date: 05/28/2014**			
LCS1	Gross Alpha by Coprecipitation		9.7	8.34	pCi/L	86	(80-120)		
LCS2	Gross Alpha by Coprecipitation		9.7	9.22	pCi/L	95	(80-120)	20	10
MBLK	Gross Alpha by Coprecipitation			<3	pCi/L				
MS_201405070279	Gross Alpha by Coprecipitation	ND	19	16.5	pCi/L	85	(70-130)		
QC Ref# 773093 - 2,3,7,8-TCDD_Dioxin by EPA 1613B						**Analysis Date: 05/23/2014**			
LCS1	2,3,7,8-TCDD		200	181	pg/L	90	(73-146)		
LCS2	2,3,7,8-TCDD		200	182	pg/L	91	(73-146)	20	0.55
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5.0	5.60	pg/L	112	(50-150)		
MS_201405080378	2,3,7,8-TCDD	ND	200	181	pg/L	90	(73-146)		
MS_201405080384	2,3,7,8-TCDD	ND	200	182	pg/L	91	(73-146)		
LCS1	C12-2,3,7,8-TCDD (S)			73.9	%	74	(25-141)		
LCS2	C12-2,3,7,8-TCDD (S)			64.4	%	64	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			74.7	%	75	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)			67.7	%	68	(31-137)		
MS_201405080378	C12-2,3,7,8-TCDD (S)			77.5	%	78	(25-141)		
MS_201405080384	C12-2,3,7,8-TCDD (S)			64.6	%	65	(25-141)		
QC Ref# 773216 - Radium 228 by RA-228 GA						**Analysis Date: 06/06/2014**			
LCS1	Radium 228		10	9.78	pCi/L	95	(80-120)		
LCS2	Radium 228		10	8.91	pCi/L	87	(80-120)	20	9.3
MBLK	Radium 228			<1	pCi/L				
MRL_CHK	Radium 228		3.1	2.97	pCi/L	97	(50-150)		
MS_201405150328	Radium 228	ND	10	8.75	pCi/L	85	(70-130)		
QC Ref# 773217 - Radium 226 by Ra-226 GA						**Analysis Date: 06/06/2014**			
LCS1	Radium 226		10	9.04	pCi/L	91	(80-120)		
LCS2	Radium 226		10	9.09	pCi/L	91	(80-120)	20	0.44
MBLK	Radium 226			<1	pCi/L				
MRL_CHK	Radium 226		3.0	2.62	pCi/L	88	(50-150)		
MS_201405150328	Radium 226	ND	10	7.85	pCi/L	75	(70-130)		
QC Ref# 773235 - Semivolatiles by GCMS by EPA 525.2						**Analysis Date: 05/28/2014**			
LCS1	1,3-Dimethyl-2-nitrobenzene (S)			99.9	%	100	(70-130)		
LCS2	1,3-Dimethyl-2-nitrobenzene (S)			99.7	%	100	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			101	%	101	(70-130)		
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)			103	%	103	(70-130)		
MS_201405130702	1,3-Dimethyl-2-nitrobenzene (S)			97.8	%	98	(70-130)		
MSD_201405130702	1,3-Dimethyl-2-nitrobenzene (S)			98.0	%	98	(70-130)		
LCS1	2,4-Dinitrotoluene		2.0	1.80	ug/L	90	(70-130)		
LCS2	2,4-Dinitrotoluene		2.0	1.77	ug/L	88	(70-130)	20	1.7
MBLK	2,4-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,4-Dinitrotoluene		0.1	0.117	ug/L	117	(50-150)		
MS_201405130702	2,4-Dinitrotoluene	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405130702	2,4-Dinitrotoluene	ND	2.0	1.79	ug/L	90	(70-130)	20	8.6
LCS1	2,6-Dinitrotoluene		2.0	1.85	ug/L	93	(70-130)		
LCS2	2,6-Dinitrotoluene		2.0	1.80	ug/L	90	(70-130)	20	2.7
MBLK	2,6-Dinitrotoluene			<0.05	ug/L				
MRL_CHK	2,6-Dinitrotoluene		0.1	0.117	ug/L	117	(50-150)		
MS_201405130702	2,6-Dinitrotoluene	ND	2.0	1.85	ug/L	93	(70-130)		
MSD_201405130702	2,6-Dinitrotoluene	ND	2.0	1.82	ug/L	91	(70-130)	20	1.1
LCS1	4,4-DDD		2.0	2.39	ug/L	119	(70-130)		
LCS2	4,4-DDD		2.0	2.44	ug/L	122	(70-130)	20	2.1
MBLK	4,4-DDD			<0.05	ug/L				
MRL_CHK	4,4-DDD		0.1	0.0900	ug/L	90	(50-150)		
MS_201405130702	4,4-DDD	ND	2.0	2.20	ug/L	110	(70-130)		
MSD_201405130702	4,4-DDD	ND	2.0	2.49	ug/L	124	(70-130)	20	12
LCS1	4,4-DDE		2.0	2.10	ug/L	105	(70-130)		
LCS2	4,4-DDE		2.0	2.17	ug/L	109	(70-130)	20	3.3
MBLK	4,4-DDE			<0.05	ug/L				
MRL_CHK	4,4-DDE		0.1	0.100	ug/L	100	(50-150)		
MS_201405130702	4,4-DDE	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405130702	4,4-DDE	ND	2.0	2.24	ug/L	112	(70-130)	20	11
LCS1	4,4-DDT		2.0	2.29	ug/L	114	(70-130)		
LCS2	4,4-DDT		2.0	2.38	ug/L	119	(70-130)	20	4.3
MBLK	4,4-DDT			<0.05	ug/L				
MRL_CHK	4,4-DDT		0.1	0.0780	ug/L	78	(50-150)		
MS_201405130702	4,4-DDT	ND	2.0	2.13	ug/L	107	(70-130)		
MSD_201405130702	4,4-DDT	ND	2.0	2.43	ug/L	122	(70-130)	20	13
LCS1	Acenaphthene		2.0	2.01	ug/L	100	(70-130)		
LCS2	Acenaphthene		2.0	1.99	ug/L	100	(70-130)	20	1.0
MBLK	Acenaphthene			<0.05	ug/L				
MRL_CHK	Acenaphthene		0.1	0.0960	ug/L	96	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405130702	Acenaphthene	ND	2.0	2.03	ug/L	102	(70-130)		
MSD_201405130702	Acenaphthene	ND	2.0	2.03	ug/L	101	(70-130)	20	0.0
LCS1	Acenaphthene-d10 (I)			77.5	%	78	(50-150)		
LCS2	Acenaphthene-d10 (I)			77.8	%	78	(50-150)		
MBLK	Acenaphthene-d10 (I)			80.8	%	81	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)			81.2	%	81	(50-150)		
MS_201405130702	Acenaphthene-d10 (I)			85.3	%	85	(50-150)		
MSD_201405130702	Acenaphthene-d10 (I)			73.4	%	73	(50-150)		
LCS1	Acenaphthylene		2.0	2.02	ug/L	101	(70-130)		
LCS2	Acenaphthylene		2.0	2.04	ug/L	102	(70-130)	20	0.99
MBLK	Acenaphthylene			<0.05	ug/L				
MRL_CHK	Acenaphthylene		0.1	0.0870	ug/L	87	(50-150)		
MS_201405130702	Acenaphthylene	ND	2.0	2.09	ug/L	104	(70-130)		
MSD_201405130702	Acenaphthylene	ND	2.0	2.01	ug/L	100	(70-130)	20	3.9
LCS1	Acetochlor		2.0	2.33	ug/L	117	(70-130)		
LCS2	Acetochlor		2.0	2.32	ug/L	116	(70-130)	20	0.43
MBLK	Acetochlor			<0.05	ug/L				
MRL_CHK	Acetochlor		0.05	0.0560	ug/L	112	(50-150)		
MS_201405130702	Acetochlor	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405130702	Acetochlor	ND	2.0	2.26	ug/L	113	(70-130)	20	7.3
LCS1	Alachlor		2.0	2.24	ug/L	112	(70-130)		
LCS2	Alachlor		2.0	2.26	ug/L	113	(70-130)	20	0.89
MBLK	Alachlor			<0.025	ug/L				
MRL_CHK	Alachlor		0.05	0.0500	ug/L	100	(50-150)		
MS_201405130702	Alachlor	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405130702	Alachlor	ND	2.0	2.34	ug/L	117	(70-130)	20	9.9
LCS1	Aldrin		2.0	1.75	ug/L	87	(70-130)		
LCS2	Aldrin		2.0	1.70	ug/L	85	(70-130)	20	2.9
MBLK	Aldrin			<0.025	ug/L				
MRL_CHK	Aldrin		0.05	0.0500	ug/L	100	(50-150)		
MS_201405130702	Aldrin	ND	2.0	1.69	ug/L	85	(70-130)		
MSD_201405130702	Aldrin	ND	2.0	1.75	ug/L	87	(70-130)	20	3.5
LCS1	Alpha-BHC		2.0	2.08	ug/L	104	(70-130)		
LCS2	Alpha-BHC		2.0	2.04	ug/L	102	(70-130)	20	1.9
MBLK	Alpha-BHC			<0.05	ug/L				
MRL_CHK	Alpha-BHC		0.1	0.0960	ug/L	96	(50-150)		
MS_201405130702	Alpha-BHC	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Alpha-BHC	ND	2.0	2.02	ug/L	101	(70-130)	20	2.9

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	alpha-Chlordane		2.0	2.18	ug/L	109	(70-130)		
LCS2	alpha-Chlordane		2.0	2.14	ug/L	107	(70-130)	20	1.9
MBLK	alpha-Chlordane			<0.025	ug/L				
MRL_CHK	alpha-Chlordane		0.05	0.0510	ug/L	102	(50-150)		
MS_201405130702	alpha-Chlordane	ND	2.0	1.92	ug/L	96	(70-130)		
MSD_201405130702	alpha-Chlordane	ND	2.0	2.24	ug/L	112	(70-130)	20	15
LCS1	Anthracene		2.0	2.01	ug/L	101	(70-130)		
LCS2	Anthracene		2.0	2.05	ug/L	103	(70-130)	20	2.0
MBLK	Anthracene			<0.02	ug/L				
MRL_CHK	Anthracene		0.02	0.0170	ug/L	85	(50-150)		
MS_201405130702	Anthracene	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405130702	Anthracene	ND	2.0	2.03	ug/L	101	(70-130)	20	0.0
LCS1	Atrazine		2.0	2.36	ug/L	118	(70-130)		
LCS2	Atrazine		2.0	2.28	ug/L	114	(70-130)	20	3.5
MBLK	Atrazine			<0.025	ug/L				
MRL_CHK	Atrazine		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Atrazine	ND	2.0	2.21	ug/L	111	(70-130)		
MSD_201405130702	Atrazine	ND	2.0	2.28	ug/L	114	(70-130)	20	3.1
LCS1	Benz(a)Anthracene		2.0	2.59	ug/L	129	(70-130)		
LCS2	Benz(a)Anthracene		2.0	2.63	ug/L	**131**	(70-130)	20	1.5
MBLK	Benz(a)Anthracene			<0.025	ug/L				
MRL_CHK	Benz(a)Anthracene		0.05	0.0730	ug/L	146	(50-150)		
MS_201405130702	Benz(a)Anthracene	ND	2.0	2.41	ug/L	120	(70-130)		
MSD_201405130702	Benz(a)Anthracene	ND	2.0	2.64	ug/L	**132**	(70-130)	20	9.1
LCS1	Benzo(a)pyrene		2.0	2.53	ug/L	126	(70-130)		
LCS2	Benzo(a)pyrene		2.0	2.59	ug/L	129	(70-130)	20	2.3
MBLK	Benzo(a)pyrene			<0.01	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0150	ug/L	75	(50-150)		
MS_201405130702	Benzo(a)pyrene	ND	2.0	2.21	ug/L	110	(70-130)		
MSD_201405130702	Benzo(a)pyrene	ND	2.0	2.58	ug/L	129	(70-130)	20	15
LCS1	Benzo(b)Fluoranthene		2.0	2.47	ug/L	124	(70-130)		
LCS2	Benzo(b)Fluoranthene		2.0	2.55	ug/L	128	(70-130)	20	3.2
MBLK	Benzo(b)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(b)Fluoranthene		0.02	0.0180	ug/L	90	(50-150)		
MS_201405130702	Benzo(b)Fluoranthene	ND	2.0	2.33	ug/L	116	(70-130)		
MSD_201405130702	Benzo(b)Fluoranthene	ND	2.0	2.52	ug/L	126	(70-130)	20	7.8
LCS1	Benzo(g,h,i)Perylene		2.0	3.02	ug/L	**151**	(70-130)		
LCS2	Benzo(g,h,i)Perylene		2.0	2.97	ug/L	**149**	(70-130)	20	1.7

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Laboratory QC
Report: 481285

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Benzo(g,h,i)Perylene			<0.025	ug/L				
MRL_CHK	Benzo(g,h,i)Perylene		0.05	0.0420	ug/L	84	(50-150)		
MS_201405130702	Benzo(g,h,i)Perylene	ND	2.0	2.12	ug/L	106	(70-130)		
MSD_201405130702	Benzo(g,h,i)Perylene	ND	2.0	3.07	ug/L	**154**	(70-130)	20	**37**
LCS1	Benzo(k)Fluoranthene		2.0	2.61	ug/L	**131**	(70-130)		
LCS2	Benzo(k)Fluoranthene		2.0	2.66	ug/L	**133**	(70-130)	20	1.9
MBLK	Benzo(k)Fluoranthene			<0.01	ug/L				
MRL_CHK	Benzo(k)Fluoranthene		0.02	0.0210	ug/L	105	(50-150)		
MS_201405130702	Benzo(k)Fluoranthene	ND	2.0	2.29	ug/L	114	(70-130)		
MSD_201405130702	Benzo(k)Fluoranthene	ND	2.0	2.54	ug/L	127	(70-130)	20	10
LCS1	Beta-BHC		2.0	2.06	ug/L	103	(70-130)		
LCS2	Beta-BHC		2.0	2.06	ug/L	103	(70-130)	20	0.0
MBLK	Beta-BHC			<0.05	ug/L				
MRL_CHK	Beta-BHC		0.1	0.100	ug/L	100	(50-150)		
MS_201405130702	Beta-BHC	ND	2.0	2.02	ug/L	101	(70-130)		
MSD_201405130702	Beta-BHC	ND	2.0	2.14	ug/L	107	(70-130)	20	5.8
LCS1	Bromacil		2.0	2.42	ug/L	121	(70-130)		
LCS2	Bromacil		2.0	2.38	ug/L	119	(70-130)	20	1.3
MBLK	Bromacil			<0.05	ug/L				
MRL_CHK	Bromacil		0.1	0.0940	ug/L	94	(50-150)		
MS_201405130702	Bromacil	ND	2.0	2.34	ug/L	117	(70-130)		
MSD_201405130702	Bromacil	ND	2.0	2.43	ug/L	122	(70-130)	20	3.8
LCS1	Butachlor		2.0	2.44	ug/L	122	(70-130)		
LCS2	Butachlor		2.0	2.45	ug/L	123	(70-130)	20	0.41
MBLK	Butachlor			<0.025	ug/L				
MRL_CHK	Butachlor		0.05	0.0510	ug/L	102	(50-150)		
MS_201405130702	Butachlor	ND	2.0	2.34	ug/L	117	(70-130)		
MSD_201405130702	Butachlor	ND	2.0	2.53	ug/L	127	(70-130)	20	7.8
LCS1	Butylbenzylphthalate		2.0	2.49	ug/L	124	(70-130)		
LCS2	Butylbenzylphthalate		2.0	2.56	ug/L	128	(70-130)	20	2.8
MBLK	Butylbenzylphthalate			<0.15	ug/L				
MRL_CHK	Butylbenzylphthalate		0.15	0.150	ug/L	100	(50-150)		
MS_201405130702	Butylbenzylphthalate	ND	2.0	2.40	ug/L	120	(70-130)		
MSD_201405130702	Butylbenzylphthalate	ND	2.0	2.59	ug/L	130	(70-130)	20	7.6
LCS1	Caffeine by method 525mod		2.0	2.00	ug/L	100	(45-137)		
LCS2	Caffeine by method 525mod		2.0	1.94	ug/L	97	(45-137)	20	3.0
MBLK	Caffeine by method 525mod			<0.01	ug/L				
MRL_CHK	Caffeine by method 525mod		0.05	0.0460	ug/L	92	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405130702	Caffeine by method 525mod	ND	2.0	1.85	ug/L	92	(46-144)		
MSD_201405130702	Caffeine by method 525mod	ND	2.0	1.91	ug/L	96	(46-144)	20	3.2
LCS1	Chlorobenzilate		2.0	2.32	ug/L	116	(70-130)		
LCS2	Chlorobenzilate		2.0	2.35	ug/L	118	(70-130)	20	1.3
MBLK	Chlorobenzilate			<0.05	ug/L				
MRL_CHK	Chlorobenzilate		0.1	0.0750	ug/L	75	(50-150)		
MS_201405130702	Chlorobenzilate	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Chlorobenzilate	ND	2.0	2.34	ug/L	117	(70-130)	20	12
LCS1	Chloroneb		2.0	2.04	ug/L	102	(70-130)		
LCS2	Chloroneb		2.0	2.03	ug/L	101	(70-130)	20	0.98
MBLK	Chloroneb			<0.05	ug/L				
MRL_CHK	Chloroneb		0.1	0.109	ug/L	109	(50-150)		
MS_201405130702	Chloroneb	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405130702	Chloroneb	ND	2.0	2.05	ug/L	102	(70-130)	20	2.4
LCS1	Chlorothalonil(Draconil,Bravo)		2.0	2.26	ug/L	113	(70-130)		
LCS2	Chlorothalonil(Draconil,Bravo)		2.0	2.30	ug/L	115	(70-130)	20	1.8
MBLK	Chlorothalonil(Draconil,Bravo)			<0.05	ug/L				
MRL_CHK	Chlorothalonil(Draconil,Bravo)		0.05	0.0490	ug/L	98	(50-150)		
MS_201405130702	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Chlorothalonil(Draconil,Bravo)	ND	2.0	2.29	ug/L	114	(70-130)	20	4.9
LCS1	Chlorpyrifos (Dursban)		2.0	2.15	ug/L	108	(70-130)		
LCS2	Chlorpyrifos (Dursban)		2.0	2.26	ug/L	113	(70-130)	20	5.0
MBLK	Chlorpyrifos (Dursban)			<0.025	ug/L				
MRL_CHK	Chlorpyrifos (Dursban)		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Chlorpyrifos (Dursban)	ND	2.0	2.10	ug/L	105	(70-130)		
MSD_201405130702	Chlorpyrifos (Dursban)	ND	2.0	2.25	ug/L	112	(70-130)	20	6.9
LCS1	Chrysene		2.0	2.08	ug/L	104	(70-130)		
LCS2	Chrysene		2.0	2.17	ug/L	108	(70-130)	20	4.2
MBLK	Chrysene			<0.01	ug/L				
MRL_CHK	Chrysene		0.02	0.0200	ug/L	100	(50-150)		
MS_201405130702	Chrysene	ND	2.0	2.11	ug/L	106	(70-130)		
MSD_201405130702	Chrysene	ND	2.0	2.08	ug/L	104	(70-130)	20	0.95
LCS1	Chrysene-d12 (I)			95.7	%	96	(50-150)		
LCS2	Chrysene-d12 (I)			93.2	%	93	(50-150)		
MBLK	Chrysene-d12 (I)			92.0	%	92	(50-150)		
MRL_CHK	Chrysene-d12 (I)			92.5	%	93	(50-150)		
MS_201405130702	Chrysene-d12 (I)			96.0	%	96	(50-150)		
MSD_201405130702	Chrysene-d12 (I)			93.5	%	94	(50-150)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Delta-BHC		2.0	1.98	ug/L	99	(70-130)		
LCS2	Delta-BHC		2.0	2.12	ug/L	106	(70-130)	20	6.8
MBLK	Delta-BHC			<0.05	ug/L				
MRL_CHK	Delta-BHC		0.1	0.0790	ug/L	79	(50-150)		
MS_201405130702	Delta-BHC	ND	2.0	1.98	ug/L	99	(70-130)		
MSD_201405130702	Delta-BHC	ND	2.0	2.07	ug/L	103	(70-130)	20	3.9
LCS1	Di-(2-Ethylhexyl)adipate		2.0	2.25	ug/L	112	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2.0	2.39	ug/L	119	(70-130)	20	6.0
MBLK	Di-(2-Ethylhexyl)adipate			<0.15	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.307	ug/L	102	(50-150)		
MS_201405130702	Di-(2-Ethylhexyl)adipate	ND	2.0	2.03	ug/L	101	(70-130)		
MSD_201405130702	Di-(2-Ethylhexyl)adipate	ND	2.0	2.37	ug/L	119	(70-130)	20	16
LCS1	Di(2-Ethylhexyl)phthalate		2.0	1.78	ug/L	89	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2.0	1.84	ug/L	92	(70-130)	20	3.3
MBLK	Di(2-Ethylhexyl)phthalate			<0.15	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.522	ug/L	87	(50-150)		
MS_201405130702	Di(2-Ethylhexyl)phthalate	ND	2.0	1.67	ug/L	84	(70-130)		
MSD_201405130702	Di(2-Ethylhexyl)phthalate	ND	2.0	1.82	ug/L	91	(70-130)	20	8.6
LCS1	Diazinon (Qualitative)		2.0	1.93	ug/L	96	(70-130)		
LCS2	Diazinon (Qualitative)		2.0	1.90	ug/L	95	(70-130)	20	1.6
MBLK	Diazinon (Qualitative)			<0.10	ug/L				
MRL_CHK	Diazinon (Qualitative)		0.1	0.107	ug/L	107	(50-150)		
MS_201405130702	Diazinon (Qualitative)		2.0	1.69	ug/L	85	(70-130)		
MSD_201405130702	Diazinon (Qualitative)		2.0	1.90	ug/L	95	(70-130)	20	12
LCS1	Dibenz(a,h)Anthracene		2.0	2.61	ug/L	**131**	(70-130)		
LCS2	Dibenz(a,h)Anthracene		2.0	2.54	ug/L	127	(70-130)	20	2.7
MBLK	Dibenz(a,h)Anthracene			<0.025	ug/L				
MRL_CHK	Dibenz(a,h)Anthracene		0.05	0.0600	ug/L	120	(50-150)		
MS_201405130702	Dibenz(a,h)Anthracene	ND	2.0	1.80	ug/L	90	(70-130)		
MSD_201405130702	Dibenz(a,h)Anthracene	ND	2.0	2.56	ug/L	128	(70-130)	20	**35**
LCS1	Dichlorvos (DDVP)		2.0	2.07	ug/L	103	(70-130)		
LCS2	Dichlorvos (DDVP)		2.0	2.03	ug/L	101	(70-130)	20	2.0
MBLK	Dichlorvos (DDVP)			<0.025	ug/L				
MRL_CHK	Dichlorvos (DDVP)		0.05	0.0410	ug/L	82	(50-150)		
MS_201405130702	Dichlorvos (DDVP)	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Dichlorvos (DDVP)	ND	2.0	2.11	ug/L	106	(70-130)	20	1.4
LCS1	Dieldrin		2.0	2.14	ug/L	107	(70-130)		
LCS2	Dieldrin		2.0	2.13	ug/L	107	(70-130)	20	0.94

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Dieldrin			<0.05	ug/L				
MRL_CHK	Dieldrin		0.1	0.104	ug/L	104	(50-150)		
MS_201405130702	Dieldrin	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405130702	Dieldrin	ND	2.0	2.22	ug/L	111	(70-130)	20	9.9
LCS1	Diethylphthalate		2.0	2.18	ug/L	109	(70-130)		
LCS2	Diethylphthalate		2.0	2.13	ug/L	107	(70-130)	20	2.3
MBLK	Diethylphthalate			<0.15	ug/L				
MRL_CHK	Diethylphthalate		0.15	0.160	ug/L	107	(50-150)		
MS_201405130702	Diethylphthalate	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Diethylphthalate	ND	2.0	2.16	ug/L	108	(70-130)	20	0.92
LCS1	Dimethoate		2.0	1.73	ug/L	87	(35-100)		
LCS2	Dimethoate		2.0	1.62	ug/L	81	(35-100)	20	6.6
MBLK	Dimethoate			<0.05	ug/L				
MRL_CHK	Dimethoate		0.1	0.0640	ug/L	64	(35-100)		
MS_201405130702	Dimethoate	ND	2.0	1.74	ug/L	87	(34-111)		
MSD_201405130702	Dimethoate	ND	2.0	1.69	ug/L	85	(34-111)	20	2.9
LCS1	Dimethylphthalate		2.0	2.08	ug/L	104	(70-130)		
LCS2	Dimethylphthalate		2.0	2.12	ug/L	106	(70-130)	20	1.9
MBLK	Dimethylphthalate			<0.15	ug/L				
MRL_CHK	Dimethylphthalate		0.3	0.295	ug/L	98	(50-150)		
MS_201405130702	Dimethylphthalate	ND	2.0	2.14	ug/L	107	(70-130)		
MSD_201405130702	Dimethylphthalate	ND	2.0	2.07	ug/L	103	(70-130)	20	3.3
LCS1	Di-n-Butylphthalate		4.0	4.21	ug/L	105	(70-130)		
LCS2	Di-n-Butylphthalate		4.0	4.24	ug/L	106	(70-130)	20	0.71
MBLK	Di-n-Butylphthalate			<0.15	ug/L				
MRL_CHK	Di-n-Butylphthalate		0.3	0.308	ug/L	103	(50-150)		
MS_201405130702	Di-n-Butylphthalate	ND	4.0	4.02	ug/L	100	(70-130)		
MSD_201405130702	Di-n-Butylphthalate	ND	4.0	4.36	ug/L	109	(70-130)	20	8.1
LCS1	Di-N-octylphthalate		2.0	1.79	ug/L	89	(70-130)		
LCS2	Di-N-octylphthalate		2.0	1.90	ug/L	95	(70-130)	20	6.0
MBLK	Di-N-octylphthalate			<0.05	ug/L				
MRL_CHK	Di-N-octylphthalate		0.1	0.103	ug/L	103	(50-150)		
MS_201405130702	Di-N-octylphthalate	ND	2.0	1.51	ug/L	76	(70-130)		
MSD_201405130702	Di-N-octylphthalate	ND	2.0	1.74	ug/L	87	(70-130)	20	14
LCS1	Endosulfan I (Alpha)		2.0	2.10	ug/L	105	(70-130)		
LCS2	Endosulfan I (Alpha)		2.0	2.05	ug/L	102	(70-130)	20	2.4
MBLK	Endosulfan I (Alpha)			<0.05	ug/L				
MRL_CHK	Endosulfan I (Alpha)		0.1	0.108	ug/L	108	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405130702	Endosulfan I (Alpha)	ND	2.0	1.79	ug/L	90	(70-130)		
MSD_201405130702	Endosulfan I (Alpha)	ND	2.0	2.06	ug/L	103	(70-130)	20	14
LCS1	Endosulfan II (Beta)		2.0	2.33	ug/L	117	(70-130)		
LCS2	Endosulfan II (Beta)		2.0	2.49	ug/L	124	(70-130)	20	6.6
MBLK	Endosulfan II (Beta)			<0.05	ug/L				
MRL_CHK	Endosulfan II (Beta)		0.1	0.0940	ug/L	94	(50-150)		
MS_201405130702	Endosulfan II (Beta)	ND	2.0	2.30	ug/L	115	(70-130)		
MSD_201405130702	Endosulfan II (Beta)	ND	2.0	2.53	ug/L	126	(70-130)	20	9.1
LCS1	Endosulfan Sulfate		2.0	2.41	ug/L	121	(70-130)		
LCS2	Endosulfan Sulfate		2.0	2.45	ug/L	122	(70-130)	20	1.6
MBLK	Endosulfan Sulfate			<0.05	ug/L				
MRL_CHK	Endosulfan Sulfate		0.1	0.133	ug/L	133	(50-150)		
MS_201405130702	Endosulfan Sulfate	ND	2.0	2.32	ug/L	116	(70-130)		
MSD_201405130702	Endosulfan Sulfate	ND	2.0	2.56	ug/L	128	(70-130)	20	9.8
LCS1	Endrin		2.0	2.16	ug/L	108	(70-130)		
LCS2	Endrin		2.0	2.08	ug/L	104	(70-130)	20	3.8
MBLK	Endrin			<0.05	ug/L				
MRL_CHK	Endrin		0.1	0.111	ug/L	111	(50-150)		
MS_201405130702	Endrin	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405130702	Endrin	ND	2.0	2.21	ug/L	111	(70-130)	20	10
LCS1	Endrin Aldehyde		2.0	2.18	ug/L	109	(70-130)		
LCS2	Endrin Aldehyde		2.0	2.14	ug/L	107	(70-130)	20	1.9
MBLK	Endrin Aldehyde			<0.05	ug/L				
MRL_CHK	Endrin Aldehyde		0.1	0.0670	ug/L	67	(50-150)		
MS_201405130702	Endrin Aldehyde	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405130702	Endrin Aldehyde	ND	2.0	2.18	ug/L	109	(70-130)	20	13
LCS1	EPTC		2.0	2.07	ug/L	103	(70-130)		
LCS2	EPTC		2.0	2.10	ug/L	105	(70-130)	20	1.4
MBLK	EPTC			<0.05	ug/L				
MRL_CHK	EPTC		0.1	0.0860	ug/L	86	(50-150)		
MS_201405130702	EPTC	ND	2.0	2.13	ug/L	106	(70-130)		
MSD_201405130702	EPTC	ND	2.0	2.13	ug/L	106	(70-130)	20	0.0
LCS1	Fluoranthene		2.0	2.18	ug/L	109	(70-130)		
LCS2	Fluoranthene		2.0	2.25	ug/L	112	(70-130)	20	3.2
MBLK	Fluoranthene			<0.05	ug/L				
MRL_CHK	Fluoranthene		0.05	0.0500	ug/L	100	(50-150)		
MS_201405130702	Fluoranthene	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Fluoranthene	ND	2.0	2.24	ug/L	112	(70-130)	20	3.2

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Laboratory QC
Report: 481285

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Fluorene		2.0	2.08	ug/L	104	(70-130)		
LCS2	Fluorene		2.0	2.09	ug/L	104	(70-130)	20	0.48
MBLK	Fluorene			<0.05	ug/L				
MRL_CHK	Fluorene		0.05	0.0460	ug/L	92	(50-150)		
MS_201405130702	Fluorene	ND	2.0	2.18	ug/L	109	(70-130)		
MSD_201405130702	Fluorene	ND	2.0	2.10	ug/L	105	(70-130)	20	3.3
LCS1	gamma-Chlordane		2.0	2.24	ug/L	112	(70-130)		
LCS2	gamma-Chlordane		2.0	2.28	ug/L	114	(70-130)	20	1.8
MBLK	gamma-Chlordane			<0.025	ug/L				
MRL_CHK	gamma-Chlordane		0.05	0.0510	ug/L	102	(50-150)		
MS_201405130702	gamma-Chlordane	ND	2.0	2.14	ug/L	107	(70-130)		
MSD_201405130702	gamma-Chlordane	ND	2.0	2.31	ug/L	116	(70-130)	20	7.6
LCS1	Heptachlor		2.0	1.92	ug/L	96	(70-130)		
LCS2	Heptachlor		2.0	1.92	ug/L	96	(70-130)	20	0.0
MBLK	Heptachlor			<0.015	ug/L				
MRL_CHK	Heptachlor		0.04	0.0410	ug/L	102	(50-150)		
MS_201405130702	Heptachlor	ND	2.0	1.87	ug/L	93	(70-130)		
MSD_201405130702	Heptachlor	ND	2.0	1.96	ug/L	98	(70-130)	20	4.7
LCS1	Heptachlor Epoxide (isomer B)		2.0	2.10	ug/L	105	(70-130)		
LCS2	Heptachlor Epoxide (isomer B)		2.0	2.10	ug/L	105	(70-130)	20	0.0
MBLK	Heptachlor Epoxide (isomer B)			<0.025	ug/L				
MRL_CHK	Heptachlor Epoxide (isomer B)		0.05	0.0620	ug/L	124	(50-150)		
MS_201405130702	Heptachlor Epoxide (isomer B)	ND	2.0	1.86	ug/L	93	(70-130)		
MSD_201405130702	Heptachlor Epoxide (isomer B)	ND	2.0	2.16	ug/L	108	(70-130)	20	15
LCS1	Hexachlorobenzene		2.0	2.01	ug/L	101	(70-130)		
LCS2	Hexachlorobenzene		2.0	2.02	ug/L	101	(70-130)	20	0.50
MBLK	Hexachlorobenzene			<0.025	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0520	ug/L	104	(50-150)		
MS_201405130702	Hexachlorobenzene	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405130702	Hexachlorobenzene	ND	2.0	2.11	ug/L	106	(70-130)	20	3.4
LCS1	Hexachlorocyclopentadiene		2.0	1.86	ug/L	93	(70-130)		
LCS2	Hexachlorocyclopentadiene		2.0	1.90	ug/L	95	(70-130)	20	2.1
MBLK	Hexachlorocyclopentadiene			<0.025	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0480	ug/L	96	(50-150)		
MS_201405130702	Hexachlorocyclopentadiene	ND	2.0	1.97	ug/L	98	(70-130)		
MSD_201405130702	Hexachlorocyclopentadiene	ND	2.0	1.92	ug/L	96	(70-130)	20	2.6
LCS1	Indeno(1,2,3,c,d)Pyrene		2.0	2.59	ug/L	130	(70-130)		
LCS2	Indeno(1,2,3,c,d)Pyrene		2.0	2.66	ug/L	**133**	(70-130)	20	2.7

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Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Indeno(1,2,3,c,d)Pyrene			<0.025	ug/L				
MRL_CHK	Indeno(1,2,3,c,d)Pyrene		0.05	0.0530	ug/L	106	(50-150)		
MS_201405130702	Indeno(1,2,3,c,d)Pyrene	ND	2.0	1.83	ug/L	91	(70-130)		
MSD_201405130702	Indeno(1,2,3,c,d)Pyrene	ND	2.0	2.56	ug/L	128	(70-130)	20	**33**
LCS1	Isophorone		2.0	2.09	ug/L	105	(70-130)		
LCS2	Isophorone		2.0	2.09	ug/L	105	(70-130)	20	0.0
MBLK	Isophorone			<0.25	ug/L				
MRL_CHK	Isophorone		0.1	0.108	ug/L	108	(50-150)		
MS_201405130702	Isophorone	ND	2.0	2.02	ug/L	101	(70-130)		
MSD_201405130702	Isophorone	ND	2.0	2.12	ug/L	106	(70-130)	20	4.8
LCS1	Lindane		2.0	2.14	ug/L	107	(70-130)		
LCS2	Lindane		2.0	2.10	ug/L	105	(70-130)	20	1.9
MBLK	Lindane			<0.02	ug/L				
MRL_CHK	Lindane		0.04	0.0410	ug/L	102	(50-150)		
MS_201405130702	Lindane	ND	2.0	2.17	ug/L	108	(70-130)		
MSD_201405130702	Lindane	ND	2.0	2.13	ug/L	107	(70-130)	20	1.9
LCS1	Malathion		2.0	2.06	ug/L	103	(70-130)		
LCS2	Malathion		2.0	2.14	ug/L	107	(70-130)	20	3.3
MBLK	Malathion			<0.05	ug/L				
MRL_CHK	Malathion		0.1	0.109	ug/L	109	(50-150)		
MS_201405130702	Malathion	ND	2.0	2.00	ug/L	100	(70-130)		
MSD_201405130702	Malathion	ND	2.0	2.12	ug/L	106	(70-130)	20	5.8
LCS1	Methoxychlor		2.0	1.97	ug/L	99	(70-130)		
LCS2	Methoxychlor		2.0	2.00	ug/L	100	(70-130)	20	1.5
MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.1	0.112	ug/L	112	(50-150)		
MS_201405130702	Methoxychlor	ND	2.0	1.95	ug/L	98	(70-130)		
MSD_201405130702	Methoxychlor	ND	2.0	1.90	ug/L	95	(70-130)	20	2.6
LCS1	Metolachlor		2.0	2.25	ug/L	113	(70-130)		
LCS2	Metolachlor		2.0	2.26	ug/L	113	(70-130)	20	0.44
MBLK	Metolachlor			<0.025	ug/L				
MRL_CHK	Metolachlor		0.05	0.0450	ug/L	90	(50-150)		
MS_201405130702	Metolachlor	ND	2.0	2.14	ug/L	107	(70-130)		
MSD_201405130702	Metolachlor	ND	2.0	2.27	ug/L	113	(70-130)	20	5.9
LCS1	Metribuzin		2.0	2.05	ug/L	102	(70-130)		
LCS2	Metribuzin		2.0	2.04	ug/L	102	(70-130)	20	0.49
MBLK	Metribuzin			<0.05	ug/L				
MRL_CHK	Metribuzin		0.05	0.0730	ug/L	146	(50-150)		

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Report: 481285

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201405130702	Metribuzin	ND	2.0	1.98	ug/L	99	(70-130)		
MSD_201405130702	Metribuzin	ND	2.0	2.04	ug/L	102	(70-130)	20	3.0
LCS1	Molinate		2.0	2.07	ug/L	103	(70-130)		
LCS2	Molinate		2.0	2.09	ug/L	104	(70-130)	20	0.96
MBLK	Molinate			<0.05	ug/L				
MRL_CHK	Molinate		0.1	0.0900	ug/L	90	(50-150)		
MS_201405130702	Molinate	ND	2.0	2.13	ug/L	107	(70-130)		
MSD_201405130702	Molinate	ND	2.0	2.08	ug/L	104	(70-130)	20	2.4
LCS1	Naphthalene		2.0	1.96	ug/L	98	(70-130)		
LCS2	Naphthalene		2.0	1.96	ug/L	98	(70-130)	20	0.0
MBLK	Naphthalene			<0.05	ug/L				
MRL_CHK	Naphthalene		0.1	0.107	ug/L	107	(50-150)		
MS_201405130702	Naphthalene	ND	2.0	1.91	ug/L	96	(70-130)		
MSD_201405130702	Naphthalene	ND	2.0	2.03	ug/L	101	(70-130)	20	6.1
LCS1	Parathion		2.0	2.07	ug/L	104	(70-130)		
LCS2	Parathion		2.0	2.08	ug/L	104	(70-130)	20	0.48
MBLK	Parathion			<0.05	ug/L				
MRL_CHK	Parathion		0.1	0.108	ug/L	108	(50-150)		
MS_201405130702	Parathion	ND	2.0	2.04	ug/L	102	(70-130)		
MSD_201405130702	Parathion	ND	2.0	2.03	ug/L	102	(70-130)	20	0.49
LCS1	Pendimethalin		2.0	2.11	ug/L	106	(70-130)		
LCS2	Pendimethalin		2.0	2.10	ug/L	105	(70-130)	20	0.0
MBLK	Pendimethalin			<0.05	ug/L				
MRL_CHK	Pendimethalin		0.1	0.103	ug/L	103	(50-150)		
MS_201405130702	Pendimethalin	ND	2.0	2.06	ug/L	103	(70-130)		
MSD_201405130702	Pendimethalin	ND	2.0	2.17	ug/L	109	(70-130)	20	5.2
LCS1	Pentachlorophenol		8.0	8.86	ug/L	111	(70-130)		
LCS2	Pentachlorophenol		8.0	8.62	ug/L	108	(70-130)	20	2.8
MBLK	Pentachlorophenol			<0.6	ug/L				
MRL_CHK	Pentachlorophenol		0.5	0.455	ug/L	91	(50-150)		
MS_201405130702	Pentachlorophenol	ND	8.0	8.75	ug/L	109	(70-130)		
MSD_201405130702	Pentachlorophenol	ND	8.0	8.70	ug/L	109	(70-130)	20	0.57
LCS1	Permethrin (mixed isomers)		4.0	3.97	ug/L	99	(70-130)		
LCS2	Permethrin (mixed isomers)		4.0	4.20	ug/L	105	(70-130)	20	5.6
MBLK	Permethrin (mixed isomers)			<0.1	ug/L				
MRL_CHK	Permethrin (mixed isomers)		0.15	0.285	ug/L	**190**	(50-150)		
MS_201405130702	Permethrin (mixed isomers)	ND	4.0	3.66	ug/L	92	(70-130)		
MSD_201405130702	Permethrin (mixed isomers)	ND	4.0	4.01	ug/L	100	(70-130)	20	9.1

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perylene-d12 (S)			118	%	119	(70-130)		
LCS2	Perylene-d12 (S)			120	%	120	(70-130)		
MBLK	Perylene-d12 (S)			103	%	103	(70-130)		
MRL_CHK	Perylene-d12 (S)			95.5	%	96	(70-130)		
MS_201405130702	Perylene-d12 (S)			104	%	104	(70-130)		
MSD_201405130702	Perylene-d12 (S)			119	%	119	(70-130)		
LCS1	Phenanthrene		2.0	1.95	ug/L	97	(70-130)		
LCS2	Phenanthrene		2.0	1.99	ug/L	100	(70-130)	20	2.0
MBLK	Phenanthrene			<0.02	ug/L				
MRL_CHK	Phenanthrene		0.02	0.0210	ug/L	105	(50-150)		
MS_201405130702	Phenanthrene	ND	2.0	2.01	ug/L	100	(70-130)		
MSD_201405130702	Phenanthrene	ND	2.0	1.98	ug/L	99	(70-130)	20	1.5
LCS1	Phenanthrene-d10 (I)			80.9	%	81	(50-150)		
LCS2	Phenanthrene-d10 (I)			79.4	%	79	(50-150)		
MBLK	Phenanthrene-d10 (I)			81.3	%	81	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)			82.3	%	82	(50-150)		
MS_201405130702	Phenanthrene-d10 (I)			90.1	%	90	(50-150)		
MSD_201405130702	Phenanthrene-d10 (I)			76.7	%	77	(50-150)		
LCS1	Propachlor		2.0	2.10	ug/L	105	(70-130)		
LCS2	Propachlor		2.0	2.14	ug/L	107	(70-130)	20	1.9
MBLK	Propachlor			<0.025	ug/L				
MRL_CHK	Propachlor		0.05	0.0490	ug/L	98	(50-150)		
MS_201405130702	Propachlor	ND	2.0	2.17	ug/L	109	(70-130)		
MSD_201405130702	Propachlor	ND	2.0	2.08	ug/L	104	(70-130)	20	3.8
LCS1	Pyrene		2.0	2.29	ug/L	114	(70-130)		
LCS2	Pyrene		2.0	2.31	ug/L	115	(70-130)	20	0.87
MBLK	Pyrene			<0.025	ug/L				
MRL_CHK	Pyrene		0.05	0.0540	ug/L	108	(50-150)		
MS_201405130702	Pyrene	ND	2.0	2.22	ug/L	111	(70-130)		
MSD_201405130702	Pyrene	ND	2.0	2.35	ug/L	117	(70-130)	20	5.7
LCS1	Simazine		2.0	2.21	ug/L	111	(70-130)		
LCS2	Simazine		2.0	2.24	ug/L	112	(70-130)	20	1.4
MBLK	Simazine			<0.025	ug/L				
MRL_CHK	Simazine		0.05	0.0320	ug/L	64	(50-150)		
MS_201405130702	Simazine	ND	2.0	2.08	ug/L	104	(70-130)		
MSD_201405130702	Simazine	ND	2.0	2.24	ug/L	112	(70-130)	20	7.4
LCS1	Terbacil		2.0	2.13	ug/L	107	(70-130)		
LCS2	Terbacil		2.0	2.10	ug/L	105	(70-130)	20	0.94

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Terbacil			<0.05	ug/L				
MRL_CHK	Terbacil		0.1	0.0830	ug/L	83	(50-150)		
MS_201405130702	Terbacil	ND	2.0	2.09	ug/L	105	(70-130)		
MSD_201405130702	Terbacil	ND	2.0	2.08	ug/L	104	(70-130)	20	0.48
LCS1	Terbuthylazine		2.0	2.34	ug/L	117	(70-130)		
LCS2	Terbuthylazine		2.0	2.30	ug/L	115	(70-130)	20	1.3
MBLK	Terbuthylazine			<0.2	ug/L				
MRL_CHK	Terbuthylazine		0.1	0.0840	ug/L	84	(50-150)		
MS_201405130702	Terbuthylazine	ND	2.0	2.26	ug/L	113	(70-130)		
MSD_201405130702	Terbuthylazine	ND	2.0	2.38	ug/L	119	(70-130)	20	5.2
LCS1	Thiobencarb		2.0	2.26	ug/L	113	(70-130)		
LCS2	Thiobencarb		2.0	2.28	ug/L	114	(70-130)	20	0.88
MBLK	Thiobencarb			<0.1	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0810	ug/L	81	(50-150)		
MS_201405130702	Thiobencarb	ND	2.0	2.16	ug/L	108	(70-130)		
MSD_201405130702	Thiobencarb	ND	2.0	2.27	ug/L	113	(70-130)	20	5.0
LCS1	trans-Nonachlor		2.0	2.27	ug/L	114	(70-130)		
LCS2	trans-Nonachlor		2.0	2.24	ug/L	112	(70-130)	20	1.3
MBLK	trans-Nonachlor			<0.025	ug/L				
MRL_CHK	trans-Nonachlor		0.05	0.0430	ug/L	86	(50-150)		
MS_201405130702	trans-Nonachlor	ND	2.0	2.11	ug/L	106	(70-130)		
MSD_201405130702	trans-Nonachlor	ND	2.0	2.29	ug/L	115	(70-130)	20	8.2
LCS1	Trifluralin		2.0	1.92	ug/L	96	(70-130)		
LCS2	Trifluralin		2.0	1.90	ug/L	95	(70-130)	20	1.1
MBLK	Trifluralin			<0.05	ug/L				
MRL_CHK	Trifluralin		0.1	0.115	ug/L	115	(50-150)		
MS_201405130702	Trifluralin	ND	2.0	1.93	ug/L	96	(70-130)		
MSD_201405130702	Trifluralin	ND	2.0	2.01	ug/L	101	(70-130)	20	4.1
LCS1	Triphenylphosphate (S)			119	%	119	(70-130)		
LCS2	Triphenylphosphate (S)			118	%	118	(70-130)		
MBLK	Triphenylphosphate (S)			115	%	115	(70-130)		
MRL_CHK	Triphenylphosphate (S)			119	%	119	(70-130)		
MS_201405130702	Triphenylphosphate (S)			108	%	108	(70-130)		
MSD_201405130702	Triphenylphosphate (S)			124	%	124	(70-130)		

QC Ref# 776371 - Gross Alpha/Beta Radiation by EPA 900.0 **Analysis Date: 06/12/2014**

DUP1_201405150394	Beta, Gross	ND		ND	pCi/L		(0-20)		
DUP2_201405090597	Beta, Gross	ND		ND	pCi/L		(0-20)		
LCS1	Beta, Gross		33	34.6	pCi/L	104	(80-120)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 481285

CH2M-Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Beta, Gross		33	31.9	pCi/L	95	(80-120)	20	8.1
MBLK	Beta, Gross			<3	pCi/L				
MS_201405140437	Beta, Gross	ND	33	32.4	pCi/L	92	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 16, 2014

Ms. Jaclyn L. Contreras
Eurofins Eaton Analytical
750 Royal Oaks Drive, 100
Monrovia, CA 910163629

RE: Project: PACE PA 481285
Pace Project No.: 30120539

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on May 15, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report reissued 6/16/14 to reflect the MDC reported to MDC as per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, Eurofins Eaton Analytical

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: PACE PA 481285
Pace Project No.: 30120539

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30120539001	**201405130749**	Drinking Water	05/13/14 13:00	05/15/14 09:30

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Greensburg, PA 15601
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SAMPLE ANALYTE COUNT

Project: PACE PA 481285
Pace Project No.: 30120539

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30120539001	**201405130749**	EPA 905.0	WRR	1

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Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: PACE PA 481285
Pace Project No.: 30120539

Method: **EPA 905.0**
Description: 905.0 Strontium 89/90
Client: Eurofins Eaton Analytical
Date: June 16, 2014

General Information:
1 sample was analyzed for EPA 905.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: PACE PA 481285
Pace Project No.: 30120539

Sample: 201405130749 **Lab ID: 30120539001** Collected: 05/13/14 13:00 Received: 05/15/14 09:30 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Strontium-90	EPA 905.0	**0.0520 ± 0.145 (1.00) C:93% T:NA**	pCi/L	05/24/14 09:18	10098-97-2	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: PACE PA 481285
Pace Project No.: 30120539

QC Batch: RADC/19873 | Analysis Method: EPA 905.0
QC Batch Method: EPA 905.0 | Analysis Description: 905.0 Strontium 89/90
Associated Lab Samples: 30120539001

METHOD BLANK: 733354 | Matrix: Water
Associated Lab Samples: 30120539001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Strontium-90	0.0350 ± 0.140 (0.310) C:94% T:NA	pCi/L	05/24/14 08:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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eurofins | Eaton Analytical

Submittal Form & Purchase Order 99-28599

Date: 5/14/2014

Ship To:
1638 Roseytown Road, Suite 2
PACE Analytical Services, Inc.
Suite 2
Greensburg, PA 15601

Phone: 724-850-5600 Fax: 724-850-5601

*REPORTING REQUIRMENTS: ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!***
Report & Invoice must have the Folder # **481285** Sub PO# **99-28599** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Ship today for next day delivery,

PACE PA - this is a 12 day stand TAT

30120539

Folder #:	Report Due:	Sub PO #:
481285	06/04/2014	99-28599

JHL	Use Lab Order # for ID	Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
EPA 905.0	201405130749 @SR90EDD	FW-04-055-Q2	Total Strontium-90 (sub)	05/13/14 1300	DW	001	

Relinquished by: M. DeMesa Sample Control EOA Date 5-14-14 Time 1515

Received by: Alyna R. Muchoney Date 5/15/14 Time 0930

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

SRA

Sample Condition Upon Receipt

Pace Analytical

Client Name: MWH

Project # 30120539

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 5806912425 19

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 6 7 8 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature NA Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: ARM 5/15/14

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13. pH<2
All containers needing preservation are found to be in compliance with EPA recommendation	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed ARM / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 5/15/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30120539

Client Name: MWH

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT																		1					

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst:	WRR		
Date:	5/27/2014	**Method:**	EPA 905.0
Worklist:	19873	**SOP:**	PGH-R-005
Matrix:	DW	**MB Sample ID:**	733354

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Strontium-90	0.0350	0.1400	0.3100	0.11500		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Strontium-90					
Count Date:	5/24/15 9:04	5/24/14 9:05				
Spike I.D.:	08-027	08-027				
Spike Concentration (pCi/L):	43.053	44.102				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.520	0.500				
Target Conc. (pCi/L, g, F):	8.280	8.825				
1.96 Sigma Uncertainty (Calculated):	0.811	0.865				
Result (pCi/L, g, F):	7.340	8.130				
1.96 Sigma Unc:	0.436	0.483				
% Recovery:	88.64%	92.12%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	130.00%	130.00%				
Lower % Recovery Limits:	65.00%	65.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y
Analyte:	Strontium-90
Sample I.D.:	LCS19873
Duplicate Sample I.D.	LCSD19873
Sample Result (pCi/L, g, F):	7.3400
1.96 Sigma Unc:	0.4360
Sample Duplicate Result (pCi/L, g, F):	8.1300
Duplicate Sample 1.96 Sigma Unc.	0.4830
Either results below MDC?	N
Relative Percent Difference:	10.21%
Assessment:	Pass
% RPD Limit:	25.00%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Sample Matrix Spike Control Assessment

Analyte:	Strontium-90		
Sample Collection Date:	5/14/2014		
Sample I.D.	30120680001		
Sample MS I.D.	30120680001MS		
Sample MSD I.D.			
Spike I.D.:	08-027		
MS/MSD Decay Corrected Spike Conc. (pCi/L):	44.130		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.4055		
MS Target Conc.(pCi/L, g, F):	21.767		
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	2.133		
MSD Spike uncertainty (calculated):			
Sample Result:	0.050		
Sample 1.96 Sigma Unc.:	0.180		
Sample Matrix Spike Result:	18.320		
Sample MS 1.96 Sigma Unc.:	0.750		
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	83.93%		
MSD % Recovery:			
MS Assessment:	Pass		
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	130.00%		
MS/MSD Lower % Recovery Limits:	65.00%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

MJ6/3/14

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 10, 2014

Ms. Jaclyn L. Contreras
Eurofins Eaton Analytical
750 Royal Oaks Drive, 100
Monrovia, CA 910163629

RE: Project: PACE PA 481285
Pace Project No.: 30121941

Dear Ms. Contreras:
Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jacquelyn Collins
jacquelyn.collins@pacelabs.com
Project Manager

Enclosures

cc: Mr. Aleksandar D. Tomovich, Eurofins Eaton Analytical

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: PACE PA 481285
Pace Project No.: 30121941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30121941001	**201405130749**	Drinking Water	05/13/14 13:00	06/04/14 10:00

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SAMPLE ANALYTE COUNT

Project: PACE PA 481285
Pace Project No.: 30121941

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30121941001	**201405130749**	EPA 906.0	SLA	1

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Greensburg, PA 15601
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PROJECT NARRATIVE

Project: PACE PA 481285
Pace Project No.: 30121941

Method: **EPA 906.0**
Description: 906.0 Tritium
Client: Eurofins Eaton Analytical
Date: June 10, 2014

General Information:
1 sample was analyzed for EPA 906.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: PACE PA 481285
Pace Project No.: 30121941

Sample: 201405130749 **Lab ID: 30121941001** Collected: 05/13/14 13:00 Received: 06/04/14 10:00 Matrix: Drinking Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Tritium	EPA 906.0	**64.8 ± 119 (400)** **C:NA T:NA**	pCi/L	06/07/14 04:19	10028-17-8	

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QUALITY CONTROL DATA

Project: PACE PA 481285
Pace Project No.: 30121941

QC Batch: RADC/20041 | Analysis Method: EPA 906.0
QC Batch Method: EPA 906.0 | Analysis Description: 906.0 Tritium
Associated Lab Samples: 30121941001

METHOD BLANK: 739605 | Matrix: Water
Associated Lab Samples: 30121941001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Tritium	64.1 ± 127 (217) C:NA T:NA	pCi/L	06/07/14 03:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace PA

Submittal Form & Purchase Order 99-28605

Date: 6/3/2014

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **481285** Sub PO# **99-28605** and Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Ship To:
110 South Hill Street
Eurofins Eaton Analytical

South Bend, IN 46617-2702

Phone: 800-332-4345 Fax: 574-233-8207

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: us20_subcontract@eurofinsus.com
Eurofins Eaton Analytical 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Ship today for next day delivery,

UL - this is a 12 day stand TAT

Rush
Report to MRL
(ab spec 7 + level 4 data pkg)

30121941

Folder #:	Report Due:	Sub PO #:
481285	06/04/2014	99-28605

JHL	Use Lab Order # for ID	*Client Sample ID for reference only*	Analysis Requested	Sample Date & Time	Matrix	PWS Systemcode	PWSID
EPA 906.0	201405130749 @H3EDD	FW-04-055-Q2	Total Tritium (Sub)	05/13/14 1300	DW	001	

LOOK FOR TRIDIUM

5364 25:7

Relinquished by: Sample Control Date 6/3/14 Time 1454

Received by: Alyna R. Mahoney Date 6/4/14 Time 1000

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

JSH

Sample Condition Upon Receipt

Pace Analytical

Client Name: MWH Project # 30121941

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 580091256294

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 6 7 8 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature N/A Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: APM 6/4/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. No date/time on sample bottle.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	Initial when completed: RM Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 6/4/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical

Project Number: 30121941

Client Name: MWH

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L) Amber	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT	1																						

SCURF Back (C016-4 15May2012).xls

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst:	SLA		
Date:	6/9/2014	Method:	EPA 906 0
Worklist:	20041	SOP:	PGH-R-021
Matrix:	DW	MB Sample ID:	739605

Method Blank Assessment

Analyte	Activity	1.96 Sig Unc.	MDC	Critical Value	Flag	Assessment
Tritium	64.0800	126.6000	216.9000	103.02000		

Laboratory Control Sample Assessment

	LCS	LCSD	LCS	LCSD	LCS	LCSD
Analyte:	Tritium					
Count Date:	6/7/14 12:28	6/7/14 13:29				
Spike I.D.:	10-003	10-003				
Spike Concentration (pCi/L):	2447.887	2447.871				
Volume Used (mL):	0.100	0.100				
Aliquot Volume (L, g, F):	0.102	0.101				
Target Conc. (pCi/L, g, F):	2398.008	2428.925				
1.96 Sigma Uncertainty (Calculated):	65.801	66.650				
Result (pCi/L, g, F):	2044.820	2136.300				
1.96 Sigma Unc:	220.100	214.400				
% Recovery:	85.27%	87.95%				
Assessment:	Pass	Pass				
Upper % Recovery Limits:	125.00%	125.00%				
Lower % Recovery Limits:	75.00%	75.00%				

Duplicate Sample Assessment

LCS/LCSD Y or N?:	Y					
Analyte:	Tritium					
Sample I.D.:	LCS20041					
Duplicate Sample I.D.	LCSD20041					
Sample Result (pCi/L, g, F):	2044.8200					
1.96 Sigma Unc:	220.1000					
Sample Duplicate Result (pCi/L, g, F):	2136.3000					
Duplicate Sample 1.96 Sigma Unc.	214.4000					
Either results below MDC?	N					
Relative Percent Difference:	4.38%					
Assessment:	Pass					
% RPD Limit:	25.00%					

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC

Sample Matrix Spike Control Assessment

Analyte:	Tritium		
Sample Collection Date:	5/29/2014		
Sample I.D.	30121867001		
Sample MS I.D.	30121867001MS		
Sample MSD I.D.			
Spike I.D.:	10-003		
MS/MSD Decay Corrected Spike Conc. (pCi/L):	2451.344		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	0.1021		
MS Target Conc.(pCi/L, g, F):	4803.261		
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike uncertainty (calculated):	131.801		
MSD Spike uncertainty (calculated):			
Sample Result:	18.120		
Sample 1.96 Sigma Unc.:	124.800		
Sample Matrix Spike Result:	4210.930		
Sample MS 1.96 Sigma Unc.:	291.600		
Sample Matrix Spike Duplicate Result:			
Sample MSD 1.96 Sigma Unc.:			
MS % Recovery:	87.29%		
MSD % Recovery:			
MS Assessment:	Pass		
MSD Assessment:			
MS/MSD Upper % Recovery Limits:	125.00%		
MS/MSD Lower % Recovery Limits:	75.00%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Analyte:			
Sample I.D.			
Sample MS I.D.			
Sample MSD I.D.			
Sample Matrix Spike Result:			
Sample Matrix Spike 1.96 Sigma Unc.:			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate 1.96 Sigma Unc.:			
MS/MSD Relative Percent Difference:			
MS/ MSD RPD Assessment:			
% RPD Limit:			

Comments:

Ce 10/14

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

CH2M Hill
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
05/24/2014
EUROFINS EATON
ANALYTICAL

DST: David S Tripp
Project Manager

Report: 482764
Project: HINKLEY
Group: Fresh Water Well- Bacti Follow-up

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2012-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	13-004r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-6
Kansas *	E-10268	**Utah ***	CA000062014-6
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 482764
Project: HINKLEY
Sample Group: Fresh Water Well- Bacti Follow-up

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 21, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405220162	FW-03	05/21/2014 1145
	@COLI-18	

Test Description

@COLI-18 -- Coliform,Pres/Absence,18 Hours

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

☒ Monsovia 4°C

CHAIN OF CUSTODY RECORD

482764

Condition of blue Ice: X wet ice

Company	Project code
CH2M Hill	PGE Hinkley

EEA Client code	Sample group
CH2M-Redding	Fresh water well

Sample ID	Sample time	date	Analysis	Number of bottles
FW-03	1145	5-21-14	COLI-18* ~~COLI-PA (@COLI-181)~~	1
FW-03-DUP	1145	5-21-14	@COLI-181*	1
				2 : Total

- Log for COLI-18
AOT 5-21 1428

	Signature	Printed name	Company	date	time
Sampled by:	Matt Frey	Garrett Frey	Groundwater Partners	5-21-14	1145
Released by:	Matt Frey	Garrett Frey	Groundwater Partners	5-21-14	1233
Recieved by:	[illegible]	Louie M Fernandez	EurofIns	5/21/14	1235
Relinquish	[illegible]	"	ESS courier	5/21/14	14:30
Rec. by:	Chris Cabrera	EEA		5/21/14	1424

6.0° on wet ice

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 482764

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Folder Comments

Sample received with insufficent volume. OK to procced per client. Micro will flag as samples not being valid for compliance. ADT 05-22-14

Flags Legend:

AA - Insufficient sample received. Sample volume below 100 ml. Data not acceptable for compliance.

The Comments Report may be blank if there are no comments for this report.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 482764

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/21/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
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Laboratory Data
Report: 482764

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/21/2014

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-03 (201405220162)							**Sampled on 05/21/2014 1145**		
		SM9223 - Coliform,Pres/Absence,18 Hours							
5/21/2014	05/22/2014	09:50	771379	(SM9223)	E. coli Bacteria	A (AA)	P=Pres/A=Abs		1
5/21/2014	05/22/2014	09:50	771379	(SM9223)	Total Coliform Bacteria	A (AA)	P=Pres/A=Abs		1

Rounding on totals after summation.
(c) - indicates calculated results

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 482764

CH2M-Hill

QC Ref # 771379 - Coliform,Pres/Absence,18 Hours **Analysis Date: 05/22/2014**

201405220162	FW-03	Analyzed by: LT1
201405220162	FW-03	Analyzed by: LT1

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

CH2M Hill
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
05/24/2014
EUROFINS EATON
ANALYTICAL

DST: David S Tripp
Project Manager

Report: 482765
Project: HINKLEY
Group: Fresh Water Well- Bacti Follow-up

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* Test results relate only to the sample(s) tested.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2012-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	13-004r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-6
Kansas *	E-10268	**Utah ***	CA000062014-6
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

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1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 482765
Project: HINKLEY
Sample Group: Fresh Water Well- Bacti Follow-up

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 21, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405220163	FW-03	05/21/2014 1145

@COLI-18	Courier Charge

Test Description

@COLI-18 -- Coliform,Pres/Absence,18 Hours

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

☒ Monrovia 4°C

CHAIN OF CUSTODY RECORD

482765

Condition of blue Ice: X wet ice

Company	Project code
CH2M Hill	PGE Hinkley

EEA Client code	Sample group
CH2M-Redding	Fresh water well

Sample ID	Sample time	date	Analysis	Number of bottles
FW-03	1145	5-21-14	~~COLI-PA (@COLI-181)~~ COLI-18*	1
FW-03-DUP	1145	5-21-14	@COLI-18*	1
				2 : Total

- Log for COLI-18
AOT 5-21 1428

	Signature	Printed name	Company	date	time
Sampled by:	[signature]	Garrett Frey	Groundwater Partners	5-21-14	1145
Released by:	[signature]	Garrett Frey	Groundwater Partners	5-21-14	1233
Recieved by:	[signature]	Louie M Fernandez	EurofiNs	5/21/14	1235
Relinquish	[signature]	"	EES courier	5/21/14	14:20

AOT 5/21/14 1430

Rec. by: Chris Cabrera EEA 5/21/14 1424 6.0° on wet ice

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 482765

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Folder Comments

Sample ID changed to "FW-03" per client request. ADT 05-22-14

The Comments Report may be blank if there are no comments for this report.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 482765

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/21/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 482765

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/21/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-03 (201405220163)						**Sampled on 05/21/2014 1145**		
		SM9223 - Coliform,Pres/Absence,18 Hours						
5/21/2014	05/22/2014 09:50	771379	(SM9223)	E. coli Bacteria	A	P=Pres/A=Abs		1
5/21/2014	05/22/2014 09:50	771379	(SM9223)	Total Coliform Bacteria	A	P=Pres/A=Abs		1

Rounding on totals after summation.
(c) - indicates calculated results

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory
QC Summary: 482765

CH2M-Hill

QC Ref # 771379 - Coliform,Pres/Absence,18 Hours **Analysis Date: 05/22/2014**

201405220163	FW-03	Analyzed by: LT1
201405220163	FW-03	Analyzed by: LT1

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

CH2M Hill
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
05/24/2014
EUROFINS EATON
ANALYTICAL

DST: David S Tripp
Project Manager

Report: 482467
Project: HINKLEY
Group: Fresh Water Well- Bacti Follow-up

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2012-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	13-004r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-6
Kansas *	E-10268	**Utah ***	CA000062014-6
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 626-386-1101
www.EatonAnalytical.com

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 482467
Project: HINKLEY
Sample Group: Fresh Water Well- Bacti Follow-up

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 20, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405210248	FW-04-DUP	05/20/2014 1500
	@COLI-18 Courier Charge	

Test Description

@COLI-18 -- Coliform,Pres/Absence,18 Hours

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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CHAIN OF CUSTODY RECORD

482467

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: 123

SAMPLES LOGGED IN BY: JS

SAMPLES REC'D DAY OF COLLECTION? ☑ (check for yes)

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 4.0 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ECS

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CH2M Hill

PROJECT CODE: PGE Hinkley

EEA CLIENT CODE: | COC ID: | SAMPLE GROUP:

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☐ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☒ (check for yes), *OR*

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only STD ☒ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA		SAMPLER COMMENTS
5/20/14	1500	FW-04		GW			COLI-PA	
		FW-04-DUP						
			DEO 5/20/14					
			1735					

* MATRIX TYPES: RSW = Raw Surface Water, RGW = Raw Ground Water, CFW = Chlor(am)inated Finished Water, FW = Other Finished Water, SEAW = Sea Water, WW = Waste Water, BW = Bottled Water, SW = Storm Water, SO = Soil, SL = Sludge, O = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	[signature]	Garrett Frey	Groundwater Partners	5/20/14	1500
RELINQUISHED BY:	[signature]	Garrett Frey	Groundwater Partners	5/20/14	1500
RECEIVED BY:	[signature]	Matthew Regalado	Essential Courier	5/20/14	1500
RELINQUISHED BY:					
RECEIVED BY:	[signature]	Darrin Smith	EEA	5/20/14	1735

QA FO 0029 (06/26/2013)

PAGE 1 OF ____

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for CH2M Hill

David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 90698
Created By: ADT
Deliver By: 05/16/2014
STG: Bottle Orders
Ice Type: W

Client ID: CH2M-REDDING
Project Code: HINKLEY Bottle Orders
Group Name: Bacti Well Resample
PO#/JOB#:

Ship Sample Kits to
Groundwater Partners
24134 Dixie Road
Hinkley, CA 92347-9682

Attn: Eli Ludwig
Phone: 505-999-7535

Send Report to
CH2M Hill
2525 Airpark Drive
Redding, CA 96001

Attn: Shawn Duffy
Phone: 530-243-5831
Fax: 530-243-1654

Billing Address
CH2M Hill
155 Grand Avenue, Suite 800
Oakland, CA 94602

Attn: William DeBoer
Phone: 510-587-7563

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
1	@COLI-PA	8 100ml poly sterilized 0.25ml thio (8%)	

Comments

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 482467

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Folder Comments

Sample received with insufficent volume. OK to proceed per client. Results not valid for compliance reporting. ADT 05-21-14

Flags Legend:

AA - Insufficient sample received. Sample volume below 100 ml. Data not acceptable for compliance.

The Comments Report may be blank if there are no comments for this report.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 482467

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/20/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 482467

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/20/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-04-DUP (201405210248)						**Sampled on 05/20/2014 1500**		
		SM9223 - Coliform,Pres/Absence,18 Hours						
5/20/2014	05/21/2014 12:08	771084	(SM9223)	E. coli Bacteria	A (AA)	P=Pres/A=Abs		1
5/20/2014	05/21/2014 12:08	771084	(SM9223)	Total Coliform Bacteria	A (AA)	P=Pres/A=Abs		1

Rounding on totals after summation.
(c) - indicates calculated results

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

CH2M Hill

QC Ref # 771084 - Coliform,Pres/Absence,18 Hours **Analysis Date: 05/21/2014**

201405210248	FW-04-DUP	Analyzed by: LT1
201405210248	FW-04-DUP	Analyzed by: LT1

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

CH2M Hill
2525 Airpark Drive
Redding, CA 96001
Attention: Shawn Duffy
Fax: 530-243-1654

Date of Issue
05/24/2014
EUROFINS EATON
ANALYTICAL

DST: David S Tripp
Project Manager

Report: 482687
Project: HINKLEY
Group: Fresh Water Well- Bacti Follow-up

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2012-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	13-004r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-6
Kansas *	E-10268	**Utah ***	CA000062014-6
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 626-386-1101
www.EatonAnalytical.com

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **CH2M Hill**
2525 Airpark Drive
Redding, CA 96001

Client ID: CH2M-REDDING
Folder #: 482687
Project: HINKLEY
Sample Group: Fresh Water Well- Bacti Follow-up

Attn: Shawn Duffy
Phone: 530-243-5831

Project Manager: David S Tripp
Phone: (626) 386-1158

The following samples were received from you on **May 20, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405210245	FW-04	05/20/2014 1500
	@COLI-18	

Test Description

@COLI-18 -- Coliform,Pres/Absence,18 Hours

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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CHAIN OF CUSTODY RECORD

482687
~~482467~~

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: 123

SAMPLES LOGGED IN BY: JS

SAMPLES REC'D DAY OF COLLECTION? [✓] (check for yes)

SAMPLE TEMP RECEIVED AT:
[ ] Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)
[✓] Monrovia 4.0 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: ECS

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CH2M Hill

PROJECT CODE: PGE Hinkley

COMPLIANCE SAMPLES [ ] (check for yes) - Requires state forms [ ]

NON-COMPLIANCE SAMPLES [ ] (check for yes)
REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE: _____ COC ID: _____ SAMPLE GROUP: _____

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [X] (check for yes), *OR*
list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only STD X 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX*	FIELD DATA	FIELD DATA		SAMPLER COMMENTS
5/20/14	1500	FW-04		GW			COLI - PA	
		FW-04-DUP						
			DED 5/20/14					
			1735					

* MATRIX TYPES: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Chlor(am)inated Finished Water; FW = Other Finished Water; SEAW = Sea Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; SO = Soil; SL = Sludge; Q = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	[signature]	Garrett Frey	Groundwater Partners	5/20/14	1500
RELINQUISHED BY:	[signature]	Garrett Frey	Groundwater Partners	5/20/14	1500
RECEIVED BY:	[signature]	Matthew Regalado	Essential Courier	5/20/14	1500
RELINQUISHED BY:					
RECEIVED BY:	[signature]	Darrin Smith	EEA	5/20/14	1735

QA FO 0029 (06/26/2013)

PAGE 1 OF ____

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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 482687

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

The Comments Report may be blank if there are no comments for this report.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 482687

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/20/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Monrovia, California 91016-3629
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Laboratory Data
Report: 482687

CH2M Hill
Shawn Duffy
2525 Airpark Drive
Redding, CA 96001

Samples Received on:
05/20/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
FW-04 (201405210245)						**Sampled on 05/20/2014 1500**		
		SM9223 - Coliform,Pres/Absence,18 Hours						
5/20/2014	05/21/2014 12:08	771084	(SM9223)	E. coli Bacteria	A	P=Pres/A=Abs		1
5/20/2014	05/21/2014 12:08	771084	(SM9223)	Total Coliform Bacteria	A	P=Pres/A=Abs		1

Rounding on totals after summation.
(c) - indicates calculated results

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Monrovia, California 91016-3629
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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

CH2M-Hill

QC Ref # 771084 - Coliform,Pres/Absence,18 Hours **Analysis Date: 05/21/2014**

201405210245	FW-04	Analyzed by: LT1
201405210245	FW-04	Analyzed by: LT1

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 482687

CH2M Hill

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%

QC Ref# - by **Analysis Date:**

QC Ref# - by **Analysis Date:**

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

Appendix C

2011 County NCNTWS
Sanitary Survey Report

County of San Bernardino
DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SERVICES
SAFE DRINKING WATER PROGRAM
NONCOMMUNITY WATER SYSTEM SANITARY SURVEY REPORT

System Name:	**Hinkley Elementary School**	Date: **02/22/2011**	Last inspection: **01/28/2010**
Location:	**37600 Hinkley Rd.** **Hinkley, CA 92347**	MFR # **3600125**	Phone # **(760) 252-5073**
Mailing Address:	**Hinkley Elementary School** **Attn: Dr. Joe Fink** **551 South Ave. "H"** **Barstow, CA 92311**	Pressure: **40-60 psi**	Flow rate: **8-10 gpm**
Person Contacted	**Kerry Whitson**	APPLICABLE LAW- **California Code of Regulations, Title 22, Water Code, Health & Safety Code, San Bernardino County Code**	

WELL STATUS	1	Annular seal	☐
	2	Well seal	☐
	3	Well cap	☐
	4	Check valve	☐
	5	Electrical conduit	☐
	6	Slab	☐
EQUIPMENT AND	7	Leaks	☐
	8	Storage tank(s)	☐
	9	Booster / well pump(s)	☐
	10	Distribution lines	☐
	11	Cross connections	☐
	12	Production capacity	☐
	13	Flowmeter	☐
	14	Insufficient pressure	☐
	15	Treatment / chlorination	☐
SOURCE PROTECTION	16	Septic system/ sewer	☐
	17	Animal enclosure	☐
	18	Underground tanks	☐
	19	Solid waste disposal	☐
	20	Pond, lake, or stream	☐
	21	Abandoned well	☐
	22	Other well	☐

The following represent San Bernardino County Code violations and must be corrected

This water system is classified as a non-transient non-community water system. The water system consists of four vertical wells, 4 storage tanks, and a pressure tank. The system has only one service connection, the Hinkley Elementary School. The system serves approximately 300 students and 40 staff members when the school is in session. A 5 hp booster pump and the pressure tank maintain system pressure between 40-60 psi. All four wells are low producing wells, and currently produce about 2-5 gpm. The owner contracts with the Arrowhead Group for services of a D1 operator.

Below is the on-going water quality analysis frequency for the Hinkley Elementary School water system:

Bacteria – Monthly, Section 64423-A, 22 CCR. Last analysis 02/28/2011.
Secondary Standards (General Mineral and Physical Constituents) – Once, Section 64449 (g), 22 CCR. Last analysis 11/22/1999.
Inorganic Chemicals – Once every three years, Section 64431 (1), 22 CCR. Last analysis 03/29/2010.
Volatile Organic Chemicals (VOCs) – Once every three years, or six years with an approved waiver, Section 64445, 22 CCR. Last analysis 03/29/2010.
Synthetic Organic Chemical (SOCs) – Once every three years, or six years with an approved waiver, 22 CCR 64445. Last analysis 05/03/2005.
Nitrate - Annually, Section 64432.1 (a), 22 CCR. Last analysis 09/02/2010.
Lead and Copper – Once every three years (1 set of 5 samples) during summer months, Section 64675.5, 22 CCR. Last analysis 03/29/2010.
Radioactivity – Gross Alpha, once every 3 years (GA: ½ MCL > MCL), Section 64442 (3), 22 CCR. Last analysis 01/26/2009.
Perchlorate – Twice 5-7 months apart, after initial analyses once every 3 years, Section 64432.3 (a), 22 CCR. Last analysis 09/29/2008.
Consumer Confidence Report – By July 1st of each year, Section 64480, 22 CCR.
Arsenic (As) –quarterly (As level is between ½ MCL to MCL), last analysis 09/27/2010.

The operator may obtain samples from the distribution system for all required analyses (all four wells are within100 feet of each other).

The above listed "Last Analysis" dates are the most recent analyses results in the Hinkley Elementary School WS file. If these dates are incorrect and more recent water analyses have been conducted, submit copies of the most recent analyses results to this Department.

SOURCE DATA	Sources	Status	Capacity (gpm)	Comments and descriptions
	Well #1	Active	2-5 gpm	Surface features appear in good condition.
	Well #2	Active	2-5 gpm	Surface features appear in good condition.
	Well #3	Active	2-5 gpm	Surface features appear in good condition.
	Well #4	Active	2-5 gpm	Surface features appear in good condition.
	Abandoned Wells A and B	Abandoned	N/A	Capped wells, inspect to ensure well caps are watertight.

The school was providing bottle water for consumption at the time of inspection.

Non-Community System Report Cont.

STORAGE DATA

Tank name or #	Capacity	Comments and descriptions
Storage Tank 1	5,000 gal	New PVC tank in good condition
Storage Tank 2	5,000 gal	New PVC tank in good condition
Storage Tank 3	5,000 gal	New PVC tank in good condition
Storage Tank 4	5,000 gal	New PVC tank in good condition
Pressure Tank	2,000 gal	Surface features appear in good condition

WATER QUALITY REQUIREMENTS

23	Coliform bacteria	☐
24	E-Coli	☐
25	Secondary standards	☐
26	Nitrate as NO_3	☐
27	Inorganic chemicals	☐
28	Volatile organic chemicals	☐
29	Synthetic organic chemicals	☐
30	Radiological standards	☐
31	Lead and copper	☐
32	MCL violations	☐
33	Emergency notification plan	☐
34	Consumer confidence report	☐

Corrections and Comments

Analyze the water for perchlorate during summer months between May-September.

Annual Nitrate analysis is due by 09/30/2011.

Analyze the water for Arsenic (As) on a quarterly basis for next 12 months. As level was at 8 µg/L on sample result dated 09/27/2010.

On-going: Continue to analyze the water for Total Coliform Bacteria on a monthly basis and Nitrate on a yearly basis. Consumer Confidence Report (CCR) is due by July 1st, and a signed CCR certification form is due by October 1st.

WATER SYSTEM STATUS

NO reinspection required	☒
Reinspection required	☐
Supervisory review required	☐

Submit all required documents and test results to:
San Bernardino County
Environmental Health Services
385 N. Arrowhead Ave., 2nd Floor
San Bernardino, CA 92415
Attention: Joy Chakma, REHS

Phone: (909) 387-4666
Fax: (909) 387-4323
jchakma@dph.sbcounty.gov

If you would like to request an extension, or have any questions, please call (909) 387-4666.

Signature: J. Chakma

Date: **03/17/2011**

Appendix D

County Notification Regarding Non-Applicability of CEQA

Shakeel Jogia

From: Alspach, Brent <Brent.Alspach@arcadis-us.com>
Sent: Thursday, August 09, 2012 1:21 PM
Subject: FW: Hinkley Elementary School: July 12 meeting action items - follow-up

From: Chakma, Joy [mailto:Joy.Chakma@dph.sbcounty.gov]
Sent: Thursday, August 09, 2012 9:09 AM
To: Alspach, Brent
Cc: Troy, Jane; Younger, Jheri
Subject: RE: Hinkley Elementary School: July 12 meeting action items - follow-up

Hi Brent,

You will find the outline for a technical report in the attached file **IV. PREPARATION OF THE TECHNICAL REPORT.**

A CEQA report will not be required unless you are planning to install a storage tank > 100,000 gallons. Jheri had informed me that she was unable to find any well permit information on proposed PG & E wells. It will be great if you can obtain that information since community grade wells are required for a public water system.

Thank you.

Joy Chakma, R.E.H.S.

County of San Bernardino
Environmental Health Services
385 N. Arrowhead Avenue, 2nd Floor
San Bernardino, CA 92415-0160
Phone 1-800-442-2283 Fax (909) 387-4323
www.sbcounty.gov/dehs

From: Alspach, Brent [mailto:Brent.Alspach@arcadis-us.com]
Sent: Tuesday, August 07, 2012 4:01 PM
To: Chakma, Joy; Troy, Jane; Younger, Jheri
Cc: Means, Edward; McCarthy, Jeffrey
Subject: Hinkley Elementary School: July 12 meeting action items - follow-up

Joy -

I just wanted to follow-up with you in regard to the EHS actions items from our meeting on July 12 (please see my message below). We're at the point that we'd like to begin the preliminary engineering report (PER), and the sample document (or even the outline / table of contents) would be a useful template. This will help us ensure that the PER covers all of the applicable information that you need, thus hopefully making your review as straightforward as possible and avoiding multiple iterations.

If you could quickly address the CEQA question below, as well, that would be great.

Jherii / Jane –

I'll reply to you both via our parallel e-mail thread on the water system permits, cc'ing Joy to keep him in the loop, as well.

Thanks in advance for the help.

Regards,
Brent

Appendix C

Hinkley Elementary School
Domestic Water Supply Permit

COUNTY OF SAN BERNARDINO

DIVISION OF ENVIRONMENTAL HEALTH SERVICES

Certificate of Issuance

OF A

WATER SUPPLY PERMIT

TO

Barstow Unified School District

This is to certify that a water supply permit (Permit # 15-3600125-001) has been issued to Barstow Unified School District on May 26, 2015 to supply water for domestic and industrial purposes to the Hinkley Elementary School service area located at 37600 Hinkley Rd., Hinkley, CA. The permit was issued by the County of San Bernardino Division of Environmental Health Services, pursuant to the provisions of Division 104, Part 12, Chapter 4, Article 7, of the California Health and Safety Code. The permit is subject to the requirements of Title 22, California Code of Regulations, and to the conditions provided in the Domestic Water Supply Permit.

A copy of the water supply permit is on file with Barstow Unified School District or may be obtained by contacting the San Bernardino County, Department of Public Health, Division of Environmental Health Services, Land Use Protection Program.

SAN BERNARDINO COUNTY

San Bernardino County
Division of Environmental Health Services
385 N Arrowhead Ave, 2nd Floor
San Bernardino, CA 92415-0160

Juan Espinoza, REHS
Land Use Protection Program

STATE OF *CALIFORNIA*

DOMESTIC WATER SUPPLY PERMIT

Issued For

Hinkley Elementary School

System No. 3600125

By

San Bernardino County Department of Public Health
Division of Environmental Health Services

PERMIT NUMBER: 15-3600125-001 **DATE: May 26, 2015**

WHEREAS:

1. The **County of San Bernardino Environmental Health Services (EHS)** is initiating an update of the permit to operate a public water system in accordance with California Health and Safety Code, Section 116525.

2. This public water system is known as **Hinkley Elementary School** which is located at **37600 Hinkley Rd., Hinkley, CA**.

3. The legal owner of the water system is the **Barstow Unified School District**. The **Barstow Unified School District**, therefore, is responsible for compliance with all statutory and regulatory drinking water requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards or orders adopted thereunder.

4. The public water system for which the permit update has been processed is as described briefly below; (the attached **Technical Report, May 19, 2015,** provides a detailed description of the system):

   The **Hinkley Elementary School** water system is classified as a non-transient non-community water system as it regularly serves 25 or more of the same people 6 months out of the year. The system serves a public elementary school and consists of four standby wells, four polyethylene storage tanks, a pneumatic pressure tank, and piping. The system also is intertie to the PG&E Pipeline Operation water system (No.3600192).

And WHEREAS:

1. The **Barstow Unified School District** has submitted all of the required information relating to the operation of the **Hinkley Elementary School** water system.

2. **EHS** has evaluated all of the information submitted by the **Barstow Unified School District** and conducted a physical investigation of the **Hinkley Elementary School** water system on January 30, 2015.

3. **EHS** has been delegated authority to issue domestic water supply permits pursuant to Health and Safety Code Section 116540.

THEREFORE: The **County of San Bernardino Division of Environmental Health Services** has determined the following:

1. The **Hinkley Elementary School** water system meets the criteria for and is hereby classified as a non-transient non-community water system.

2. The applicant has demonstrated that the **Hinkley Elementary School** water system has sufficient source capacity to serve the anticipated water demand of the facility.

3. The design of the water system complies with the Water Works Standards and all applicable regulations.

4. The applicant has demonstrated adequate technical, managerial, and financial capacity to operate the water system.

5. Provided the following conditions are complied with, the **Hinkley Elementary School** water system should be capable of providing water to consumers that is pure, wholesome and potable, and in compliance with statutory and regulatory drinking water requirements at all times.

THE **BARSTOW UNIFIED SCHOOL DISTRICT** IS HEREBY ISSUED THIS DOMESTIC WATER SUPPLY PERMIT TO OPERATE THE **HINKLEY ELEMENTARY SCHOOL** WATER SYSTEM.

The **Hinkley Elementary School** water system shall comply with the following permit conditions:

1. The water system shall comply with all the requirements set forth in the California Safe Drinking Water Act, California Health and Safety Code and any regulations, standards or orders adopted hereunder.

2. Water for domestic purposes shall, under all circumstances and conditions be of adequate supply, pure, wholesome and potable, and shall not endanger the lives of human beings.

3. No changes, additions, or modifications shall be made to the source, storage distribution, or treatment facilities without first obtaining an amended water system permit. The water system shall be maintained in a sanitary and properly operating condition. An amended permit is not required for repairs or maintenance.

4. All water supplied by the **Hinkley Elementary School** water system for domestic purposes shall not exceed any maximum contaminant level (MCLs) set forth in Title 22 of the California Code of Regulations or action levels (ALs) set forth by the California State Water Resources Control Board, Division of Drinking Water (**DDW**) for a non-transient non-community water system. Should the water exceed any MCLs or ALs, treatment of the water shall be provided to bring the water into compliance with the MCLs or ALs.

5. Bacteriological and chemical water analysis shall be performed in compliance with Title 22 of the California Code of Regulations for a non-transient non-community water system.

6. All water quality sample results shall be submitted electronically to **EHS** and to **DDW** by electronic data transmission (EDT) using the following Primary Station Code:

Source	PS Code
PG&E Intertie (Primary Source)	3600125-010
Well 01 (2738)- Standby	3600125-002
Well 02 (2739)- Standby	3600125-003
Well 03 (2740)- Standby	3600125-001
Well 04 (2708)- Standby	3600125-004

7. The **Barstow Unified School District** shall use laboratories and approved analytical methods, certified by the CDPH Environmental Laboratory Accreditation Program (ELAP), for the analysis of all samples.

8. The **Barstow Unified School District** shall notify **Environmental Health Services** within 24 hours whenever:

a. The well water or a routine sample is found to contain **total coliform** or fails to meet any maximum contaminant level, any provisions in this permit, or any order issued under applicable laws and regulations.

b. An event occurs which may affect the water system's ability to produce safe, potable water including but not limited to water outages, pressure of less than 5 psi in the distribution system, spills of hazardous materials in the watershed, and treatment process failures.

c. The occurrence of an acute, infectious illness in the service area that may be potentially attributable to the water system.

9. The **Barstow Unified School District** shall comply with Title 17 of the California Code of Regulations (CCR), to prevent the water system and treatment facilities from being contaminated from possible cross-connections. The **Barstow Unified School**

District shall maintain a program for the protection of the domestic water system against backflow into the system.

10. The **Hinkley Elementary School** water system shall be operated and maintained under the direction of a licensed distribution operator with a minimum D-1 grade in accordance with Title 22, Section 63765, California Code of Regulations.

11. The **Barstow Unified School District** shall produce a Consumer Confidence Report (CCR) annually. A copy of the CCR shall be posted in a prominent area that is available to staff and students by July 1st of each year. A copy of the CCR shall be mailed to **EHS** by July 1st of each year. A CCR Certification form must be mailed to **EHS** within 3 months of distributing the CCR.

12. This permit may be revoked or suspended for failure to comply with those sections of the California State Health and Safety Code, California Code of Regulations and the Ordinances of San Bernardino County, relative to Water Supply Systems.

This permit supersedes all previous domestic water supply permits issued for this public water system and shall remain in effect unless and until it is amended, revised, reissued, or declared to be null and void by the ***County of San Bernardino Division of Environmental Health Services***. This permit is non-transferable. Should the **Hinkley Elementary School** water system undergo a change of ownership, the new owner must apply for and receive a new domestic water supply permit.

This permit shall be effective as of the date shown below.

Signature: _____ **Dated: May 26, 2015**

Juan Espinoza, REHS
Division of Environmental Health Services
San Bernardino County Department of Public Health

Appendix D

BUSD Hinkley School SEP Completion Letter and Response

Pacific Gas and Electric Company®

Danielle N. Starring, P.E.
Project Manager
Shared Services

22999 Community Blvd.
Hinkley, CA 92347
Phone: 760.253.7896
E-Mail: d9ss@pge.com

June 19, 2015

Jeff Malan, Superintendent
Barstow Unified School District
551 South Avenue H
Barstow, CA 92311

Sent via email: jeff_malan@busdk12.com

Subject: Hinkley School Supplemental Environmental Project

Dear Superintendent Malan:

In 2012, Pacific Gas & Electric Company (PG&E) entered into a Settlement Agreement and Stipulation for Entry of Order with the Lahontan Regional Water Quality Control Board ("LRWQCB") that was adopted by the LRWQCB as Order No. R6V-2012-0013 (the "Settlement Order").

The Settlement Order allowed PG&E to complete a supplemental environmental project ("SEP") comprised of a water infrastructure project that is intended to be used to provide water to the Hinkley Elementary/Middle School located at 37600 Hinkley Road in Hinkley, California (the "Hinkley School"). Barstow Unified School District (BUSD) submitted a letter to the LRWQCB conveying the unanimous support of the School Board for the SEP.

PG&E is pleased to inform BUSD that PG&E has now completed the construction of the SEP water supply infrastructure. Pursuant to the terms of the Settlement Order, PG&E will maintain the water supply infrastructure that is not located on the Hinkley School property but which is necessary to implement the Settlement Order.

The Settlement Order provided that water will be made available by PG&E for the Hinkley School from wells PGE14, FW01 or FW02, (or an alternative source of water with similar water quality) that meets all state and federal drinking water standards. This letter notifies you that PG&E will supply water for the Hinkley School from wells FW01, FW02, FW03 and FW04 which are of similar quality to wells PGE14, FW01 and FW02, and which meets all state and federal drinking water standards, in accordance with the Settlement Order.

As of the date of this letter, the water supply system is fully operational. For questions regarding operation and maintenance, our contact will be Jeff McCarthy (760-954-3272). Please contact him with any questions.

We look forward to working with BUSD.

Very truly yours,

Danielle N. Starring, P.E.
Project Manager
Pacific Gas and Electric Company

Cc: Wael Elatar, Chief Business Officer, Barstow Unified School District

From: Jeff Malan <jeff_malan@busdk12.com>
Sent: Monday, June 22, 2015 7:54 AM
To: Starring, Danielle; Wael Elatar
Cc: McCarthy, Jeffrey
Subject: RE: Hinkley School Water Project: Notice of Completion

Good Morning Danielle,

Thank You for the support and cooperation of the PG&E staff during this process. We are happy with the process timely completion of this project. We appreciate the partnership that our organizations have developed over the years and look forward to working with you again for the benefit of our students. Thank You,

Jeff Malan - Superintendent
Barstow Unified School District
551 South Ave H
Barstow, CA 92311
760-255-6006
www.barstow.k12.ca.us

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E-mail is covered by the Electronic Communications Privacy Act, 18 USC SS 2510-2521 and is legally privileged.

From: Starring, Danielle [mailto:D9SS@pge.com]
Sent: Friday, June 19, 2015 6:58 PM
To: Jeff Malan; Wael Elatar
Cc: McCarthy, Jeffrey
Subject: Hinkley School Water Project: Notice of Completion

Jeff/Wael,

On behalf of Pacific Gas and Electric, I am pleased to report that the construction and permitting has been completed for the Hinkley School new water system. As of yesterday afternoon and confirmed today by onsite BUSD maintenance personnel, the school water tanks are filling automatically on demand/as needed. The attached letter will be included as part of our closeout reporting for the project with the Water Board. I anticipate the final reports to be submitted in early July, and we will provide copies to BUSD.

Once you have more clarity on the next steps with the Hinkley School, we would like to formalize our operating agreement with BUSD, including sampling and operating parameters discussed and agreed to with Jeff McCarthy.

We look forward to continuing to work with BUSD.

Kind Regards,
Danielle

Danielle N. Starring, PE
Chromium Remediation Program, PG&E
3401 Crow Canyon Road
San Ramon,CA 94583
925.407.6437 (mobile)
d9ss@pge.com

PG&E is committed to protecting our customers' privacy.
To learn more, please visit http://www.pge.com/about/company/privacy/customer/

Appendix E

Project Photos

Trenching for HDPE pipe installation along Santa Fe Avenue

Installation of HDPE supply pipeline along Santa Fe Avenue

Trenching for HDPE supply pipe adjacent Hinkley School

Installation of backflow preventer at Hinkley School water supply connection

Completed installation of security cage and bollards around backflow preventer

Heat tape installation for control valve adjacent Hinkley School water storage tanks

FW-01 well after completion of retrofit work

FW-02 well after completion of retrofit work

Entrance to FW-03 & FW-04 Well Site

FW-03 and FW-04 Well Site

FW-03 well head piping tree

FW-04 well head piping tree

Trenching for water supply dual-pipe installation along Community Boulevard

Detection tape along water supply dual-pipe installation along Community Boulevard

Vault 2 - water supply pipeline heads north toward Hinkley School from this point

Appendix F

Hinkley School SEP Cost Expenditures and Certification By Corporate Officials

Pacific Gas and Electric Company

Danielle N. Starring, P.E.
Project Manager
Shared Services

22999 Community Blvd.
Hinkley, CA 92347
Phone: 760.253.7896
E-Mail: d9ss@pge.com

July 24, 2015

Re: Hinkley School Supplemental Environmental Project Certification of Expenditures By Responsible Corporate Officials

PG&E hereby certifies that expenditures of more than $1,800,000 were made by PG&E in fulfillment of the requirements of the Settlement Agreement and Stipulation for Entry of Administrative Civil Liability Order No. R6V-2012-0013, issued March 14, 2012.

_____

I hereby certify that I have examined this report, and based on my examination and my inquiries of those individuals who assisted in the preparation of the report, I believe the report to be true, complete, and accurate.

Please do not hesitate to contact me if you have any questions regarding this report or if you need additional information.

Sincerely,

Danielle N. Starring, P.E.
Project Manager

Attachments:
Exhibit 1 Hinkley School SEP Major Expenditures (through May 2015)

Hinkley School SEP Major Expenditures (Through May 2015)

Item No.	Category/Item	Cost (through May 2015)	Contractor and Contract Work Authorization (CWA) Reference	Notes
1	**Engineering, Reporting, Community Relations, Management**			
a	Existing System Evaluation, Preliminary Engineering, 10% Design	$ 122,821	Arcadis CWA 2500636184 and PIVOX CWA 2500656264 (all invoices)	Includes project scoping with the Barstow Unified School District (BUSD)
b	Water System Permit Technical Reports, County Permitting Support, Regulatory and Stakeholder Reporting and Support	$ 295,305	Arcadis CWAs 2500690181 and 2501087714, SWA-AUS-2500690181-005 (all invoices)	Includes revised water system permit for Hinkley School. Includes Water Board reporting in compliance with SEP Settlement Agreement
	Subtotal	**$ 418,126**		
2	**School Water System Design and Construction**			
a	School Pipeline Construction Final Design, Permitting, Construction Prep	$ 58,180	PIVOX CWA 2500834600, Invoices 542 & 552	Permitting includes construction permits, which is not included in water system permitting task shown above
b	School Connection Pipeline Construction, Including Connections to School and PG&E	$ 716,996	PIVOX CWA 2500834600 (all invoices, except 542, 552 & 767)	Pipeline from end of existing freshwater injection system to Hinkley School (approximately 3,100 feet); does not include System Disinfection, Startup, Sampling, & Commissioning (see 4a, below)
c	School-Site Tank Valving Changes	$ 29,364	PIVOX CWA 2500834600, Invoice 767	Includes tank fill control valve, controls tie-in to existing school tank level switches, and upgrades to School control panel to accommodate new controls equipment
	Subtotal	**$ 804,540**		
3	**Water Supply and Well Design and Construction**			
a	FW-01 and FW-02 Wellhead Retrofits	$ 4,758	PIVOX CWA 2500804698 (all invoices)	Shared task between SEP, Compressor Station, and other water uses; cost shown and allocated to SEP is 6.4% of the total task cost, as SEP requires 6.4% of the total water production capacity of the upgraded water supply system
b	FW-03 and FW-04 Well Installation and Testing	$ 133,839	CH2M Hill CWA 2500891430 (all invoices)	Shared task between SEP, Compressor Station, and other water uses; sampling costs are shared 50% between SEP and other PG&E uses, as FW-03 and FW-04 were needed to eliminate well PGE-14 as required for SEP; other costs are allocated 6.4% to SEP, as SEP requires 6.4% of the total water production capacity of the upgraded water supply system
c	New Water Supply System Design	Not Included	Not Applicable	Not charged to SEP, as design includes significant infrastructure for Compressor Station water system
d	Water Supply Pipeline Construction	$ 448,545	PIVOX CWA 2500989067, Invoices 630, 635, 642, 649, 672 & 676	Pipeline from new supply wells FW-03 and FW-04 to Compressor Station connection point (~ 9,600 feet); shared task between SEP and other PG&E water system uses; cost shown and allocated to SEP is only for construction required solely for SEP water supply
e	Water Supply Mechanical & Electrical Construction (Well Pumps, Well Head Plumbing)	$ 447,624	PIVOX CWAs 2501026413 and 2501107384 (all invoices)	Shared task between SEP and Compressor Station projects; costs for coordination, procurement, permitting, submittals, mobilization, wells FW-03 & FW-04 mechanical build-out, electrical, instrumentation, and controls system are shared 50/50 between SEP and other PG&E water system uses
	Subtotal	**$ 1,034,767**		
4	**School System Start-Up and Operational Support**			
a	System Disinfection, Start-Up, Sampling, Commissioning	$ 40,400	Portion of PIVOX CWA 2500834600 (as referenced above in Line Item 2b)	Includes disinfection and sampling of entire PG&E water transmission pipeline from where pipeline leaves the Compressor Station to School connection point; Start-up/Commissioning includes commissioning of School tank fill valve operation
b	Two-Year Technical Support After Handover to School	Not Included	Not Applicable	Two years of technical support will be provided to the Hinkley School after the new potable supply is flowing; this future cost has not yet been estimated, contracted, or spent
	Subtotal	**$ 40,400**		
5	**Water System Start-Up and Operational Support**			
a	System Disinfection, Start-Up, Sampling, Commissioning, Documentation	$ 22,630	PIVOX CWA 2500989067, Invoice 676 & 50% of Item 5 in Invoice 672.	Includes disinfection, sampling, and start-up of shared SEP/other PG&E water infrastructure from new production wells to Compressor Station connection point; as this infrastructure is required to supply the SEP, costs associated with this task are shared 50/50 between SEP and other PG&E water uses
	Subtotal	**$ 22,630**		
	TOTAL SEP SPEND	**$ 2,320,463**		