



NEW MEXICO
ENVIRONMENT DEPARTMENT



Surface Water Quality Bureau

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Lieutenant Governor

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RYAN FLYNN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

ERIKA SCHWENDER
Director
Resource Protection Division

Certified Mail - Return Receipt Requested

March 17, 2014

Veronica Gonzales, Secretary
c/o Lisa Vornholt, Facilities Manager
State of New Mexico, Department of Cultural Affairs
407 Galisteo, Suite 260
Santa Fe, NM 87501

Re: New Mexico History Museum; Unpermitted Discharge; SIC 8412; NPDES Compliance Evaluation Inspection; NPDES Tracking No. NMU001873; February 21, 2014

Dear Secretary Gonzales:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Introduction, regulatory and permitting requirements, and findings noted during this inspection are discussed in the "Further Explanations" section of the inspection report.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Racquel Douglas
US Environmental Protection Agency, Region VI
Enforcement Branch (6EN-WM)
Fountain Place
1445 Ross Avenue
Dallas, Texas 75202-2733

Bruce Yurdin
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section (PSRS)
P.O. Box 5469
Santa Fe, New Mexico 87502

If you have any questions about this inspection report, please contact Erin S. Trujillo of the PSRS staff at 505-827-0418.

Sincerely,

/s/Bruce J. Yurdin

Bruce J. Yurdin
Program Manager
Point Source Regulation Section
Surface Water Quality Bureau

NPDES Tracking No. NMU001873
New Mexico History Museum
March 17, 2014
Page 2 of 2

cc: -Rashida Bowlin, USEPA (6EN-AS) by e-mail
 -Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail
 -Racquel Douglas, USEPA (6EN-WM) by e-mail
 -Brent Larsen, USEPA (6WQ-PP) by e-mail
 -Gladys Gooden-Jackson, USEPA (6EN-WC) e-mail
 -Robert Italiano, NMED District II by e-mail
 -David Catanach, PE, Division Director, Streets and Drainage Maintenance Division, Public Works Department,
 City of Santa Fe by e-mail
 -Alex Puglisi, Environmental Compliance Officer, Public Utilities, Water Division, Water Quality and
 Compliance, City of Santa Fe by e-mail



NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspec. Type	Inspector	Fac Type
1 N 2 5 3 N M U 0 0 1 8 7 3 11 12 1 4 0 2 2 1 17 18 C 19 S 20 2					
Remarks					
U N P E R M I T T E D D I S C H A R G E					
Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved	
67 69	70 2	71 N	72 N	73	74 75 80

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)	Entry Time /Date ~1250 hours / 02/21/2014	Permit Effective Date Unpermitted
New Mexico History Museum, 113 Lincoln Avenue, Santa Fe, NM 87501	Exit Time/Date ~1400 hours / 02/21/2014	Permit Expiration Date Unpermitted
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) -Lisa Vornholt, Facilities Manager, NM Department of Cultural Affairs / 505-500-2424, -Seth McFarland, Operations Manager, NM History Museum, NM Department of Cultural Affairs / 505-476-5095 -Steve Baca, Facilities Manager, NM History Museum, NM Department of Cultural Affairs / 505-476-5027 -Michel Fidel, Project Manager, Mechanical & Electrical Engineering, Inc./ 505-983-2389 (Santa Fe Office) -Henry Trujillo, Facilities, NM History Museum, NM Department of Cultural Affairs	Other Facility Data SIC 8412 (Museum) Facility Entrance: Latitude 35.688242° Longitude -105.938368°	
Name, Address of Responsible Official/Title/Phone and Fax Number Veronica Gonzales, Secretary / State of New Mexico, Department of Cultural Affairs, 407 Galisteo, Suite 260, Santa Fe, NM 87501 / 505-827-6364	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

U	Permit	N	Flow Measurement	N	Operations & Maintenance	N	CSO/SSO
N	Records/Reports	N	Self-Monitoring Program	N	Sludge Handling/Disposal	N	Pollution Prevention
N	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
N	Effluent/Receiving Waters	N	Laboratory	N	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

- 1) The State of New Mexico Department of Cultural Affairs (Owner or Operator) New Mexico History Museum located at the above address has two groundwater sumps in the basement of the museum with pumps and pipe system connected to the City of Santa Fe small Municipal Separate Storm Sewer System (MS4) that conveys water to the Santa Fe River in Segment 20.6.4.137 New Mexico Administrative Code in the Rio Grande Basin.
- 2) In 2009, laboratory results indicated that the collected groundwater in the sumps had tetrachloroethene at concentrations of 78 micrograms per Liter (µg/L) in the east sump and 2.0 µg/L in the west sump.
- 3) The Operator did not apply for or obtain a federal Clean Water Act National Pollutant Discharge Elimination System permit to discharge contaminated pumped ground water in 2009. The dewatering system is still active.
- 4) Further explanations, including photo log, is attached.

Name(s) and Signature(s) of Inspector(s) Erin S. Trujillo	Agency/Office/Telephone/Fax NMED/SWQB 505-827-0418	Date 03/17/2014
Signature of Management QA Reviewer Sarah Holcomb	Agency/Office/Phone and Fax Numbers NMED/SWQB 505-827-0418	Date 03/17/2014

**State of New Mexico Department of Cultural Affairs
New Mexico History Museum
NPDES Tracking No NMU001873
Compliance Evaluation Inspection
February 21, 2014**

Further Explanations

Introduction

On February 21, 2014, Erin Trujillo, accompanied by Bruce Yurdin, both of the New Mexico Environment Department (NMED) Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the New Mexico History Museum at 113 Lincoln Avenue, Santa Fe, New Mexico 87501 to investigate a potential unpermitted discharge. Prior to this CEI, NMED SWQB received information indicating that samples collected of groundwater from sumps in the lower level (basement) of the museum had concentrations of tetrachloroethene in July of 2009, and that the sump dewatering system was actively discharging potentially contaminated pumped groundwater into the City of Santa small Municipal Separate Storm Sewer System (small MS4).

Tetrachloroethene (Chemical Abstracts Service CAS# 127-18-4) is the systematic, chemical structure, name for Tetrachloroethylene (also known as Perchloroethylene or PERC). The chemical is used in dry cleaning and textile processing, and in vapor degreasing in metal-cleaning operations. The chemical is used in other commercial products (e.g., paint strippers and spot removers).

The City of Santa Fe MS4 conveys water to the Santa Fe River in Segment 20.6.4.137 State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 New Mexico Administrative Code (NMAC) or NM Water Quality Standards (WQS). The Santa Fe River from Guadalupe Street, in Santa Fe to Nichols Reservoir has designated uses of coolwater aquatic life, wildlife habitat, primary contact, livestock watering, and irrigation. Prior to February 14, 2013, Santa Fe River from the WWTP to Nichols Reservoir had designated uses of livestock watering, marginal warmwater aquatic life, primary contact and wildlife habitat. For informational and comparison purposes, the following are the State of New Mexico surface water quality numeric criteria applicable to existing, designated or attainable uses (20.6.4.900. J NMAC) in micrograms per Liter ($\mu\text{g/L}$):

Pollutant	CAS Number	Domestic Water Supply	Aquatic Life	Type
			Human Health-Organism Only (HH-OO)	
Tetrachloroethylene	127-18-4	5	33	cancer-causing (C) persistent (P)

NMED performs a certain number of CEIs each year for the U.S. Environmental Protection Agency (USEPA), Region VI. The purpose of this inspection was to document the operator's compliance with 40 Code of Federal Regulations (CFR) Part 122 and National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act. This inspection report is based on information provided by the operator representatives, observations made by the NMED inspectors, and records kept by NMED, including information provided by staff of the City of Santa Fe, New Mexico.

Upon arrival at the facility at approximately 1250 hours on the day of this inspection, the inspector made introductions, presented credentials and explained the purpose of the inspection to Ms. Lisa Vornholt, Facilities Manager, State of New Mexico, Department of Cultural Affairs. The inspector conducted an entrance interview with on-site representatives which included Ms. Vornholt; Seth McFarland, Operations Manager, Steve Baca, Facilities Manager, and Henry Trujillo, Facilities Staff of the New Mexico History Museum; and Michel Fidel, Project Manager, Mechanical & Electrical Engineering, Inc. Following the meeting, Mr. McFarland, Mr. Baca, Mr. Fidel, Mr. Trujillo and the inspectors toured the sump rooms inside the museum and portions of Lincoln

Avenue where storm water sewer was located below the street. Following the tour, a brief exit interview to discuss preliminary findings was conducted with Mr. McFarland, Mr. Baca, Mr. Fidel, and Mr. Trujillo. The inspectors left the facility at approximately 1400 hours on the day of this inspection.

Documentation of pollutant concentrations or coordination with the City of Santa Fe on the contamination encountered was requested of on-site representatives during the entrance interview. On-site representatives indicated that they would review files from the time of the museum's construction. As of the writing of this report, additional information has not been provided.

Following this inspection on February 24, 2014, the inspector contacted by telephone the following staff at the City of Santa Fe Public Works Department and Public Utilities Department: 1) David Catanach, PE, Division Director, Streets and Drainage Maintenance Division, Public Works Department; 2) Dave Pike, Project Administrator / Field Supervisor, MS4, Streets and Drainage Maintenance Division, Public Works Department; and 3) Alex Puglisi, Environmental Compliance Specialist/Source of Supply Manager, Water Division, Public Utilities Department.

City of Santa Fe submitted a Notice of Intent to obtain permit coverage under the USEPA Region 6 NPDES General Permit for Discharges from small MS4 (NPDES Permit No. NMR040000 available from USEPA's web site <http://www.epa.gov/Region6/water/npdes/sw/sms4/evpermit.pdf>, effective on July 1, 2007 and currently administratively continued). This permit requires the Permittee, in this case the City of Santa Fe to "... *prohibit all types of non-storm water discharges into its MS4 unless the discharges are authorized by a separate NPDES permit, are not required to have a NPDES permit, or are addressed under Part 1.3.2*" of the small MS4 General Permit. In Part 1.3.2 "...*categories of non-storm water discharges need not be prohibited if the permittee determines that they are not significant contributors of pollutants to the MS4, either because of the nature of the discharge or requirements placed on the discharger as a condition for discharging into the MS4.*" Included on this list of "allowable" non-storm water discharges is "uncontaminated pumped groundwater." A NPDES CEI or Audit was not conducted of the City of Santa Fe MS4 on the day of this inspection.

NMED Groundwater Quality Bureau (GWQB) has collected and submitted for analysis additional groundwater samples at the museum on March 13, 2014. When finalized, these laboratory results will be submitted for informational purposes under separate letter as a follow up to this report.

Available Information/Known Pollutant Concentrations in 2009

Museum construction started in 2006 and the grand opening was in May of 2009 (Source: <http://www.nmhistorymuseum.org/news.php?id=32>). According to on-site representatives, the basement of the museum was constructed approximately 40 feet below the surface and into groundwater. A collection system was installed below the foundation with two sumps, approximately 5 feet in diameter and accessible in the basement of the museum (see Photo Log). Each sump has two float pumps connected to an approximately 2 ½ inch pipe. Pumped groundwater from the east sump and west sump pipe systems are combined and piped (tied in) to the storm water sewer below Lincoln Avenue.

Both on-site representatives and City of Santa Fe staff recollected that the pumped groundwater in the sumps was first connected by pipe to an inactive portion of the City's storm water sewer. The City required the groundwater sump pipe to be connected to an active portion of the MS4 after the museum construction and opening. Based on City of Santa Fe on-line internet maps and information from staff at the City of Santa Fe, flow in the storm sewer system is conveyed west following E. Palace Avenue, south following Sandoval Street, to an outlet south of West Alameda Street at the Santa Fe River.

According to Mr. Puglisi, who stated he contacted a former/retired city employee, samples were collected in groundwater from construction dewatering activities at the museum prior to July 2009. The water samples collected on June 9 and/or June 16, had tetrachloroethene concentrations of 1.7 micrograms per Liter (µg/L) and 38 µg/L. Mr. Puglisi did not have a copy of the laboratory report. Española Basin groundwater studies cooperatively funded by Los Alamos National Laboratory and the City of Santa Fe occurred in the time period

of the museum construction. During these studies, additional samples may have been collected at the museum and analyzed. A copy of these laboratory results, if any, have not been obtained as of the writing of this report.

ARSA Analytical, LLC Certificate of Analysis report dated July 15, 2009 is attached. This laboratory report was provided by staff of the City of Santa Fe, Public Utilities Department, Water Division to staff of the NMED Groundwater Quality Bureau, Voluntary Remediation Program while cooperating with Targeted Brownfields Assessments (groundwater level and quality) prior to this CEI. Groundwater in sumps in the basement of the museum had concentrations of Tetrachloroethene above detection in samples collected on July 9, 2009 (78 µg/L in the east sump and 2.0 µg/L in the west sump).

According to on-site representatives, discharges to the Lincoln Avenue storm water sewer occurred daily when the building was first constructed for approximately one year. Currently, the pump system to lower the groundwater level occurs less frequently (approximately 1-3 times a week). The pumps do not have meters to measure flow. Water was observed flowing from a pipe into the east sump open well, but the pumps were not pumping collected water during this inspection.

Federal Clean Water Act and National Pollutant Discharge Elimination System Requirements

Section 301 of the Federal Clean Water Act states *“Except as in compliance with this section and sections 302, 306, 307, 318, 402 and 404 of this Act, the discharge of any pollutant by any person shall be unlawful.”*

40 CFR 122.1(b) states *“The NPDES program requires permits for the discharge of “pollutants” from any “point source” into “waters of the United States.”* The terms “pollutant”, “point source” and “waters of the United States” are defined at §122.2.

40 CFR 122.21(a) states *“Duty to apply. Any person who discharges or proposes to discharge pollutants....shall submit a complete application...to the Director in accordance with this section and part 124.”*

Findings Permit – Overall Rating of “U = Unsatisfactory”

Based on available information, it appears that contaminated pumped groundwater from an active dewatering system activity in the basement of the museum was discharged to the City of Santa Fe MS4 that conveys water to the Santa Fe River in the Rio Grande Basin. State of New Mexico Department of Cultural Affairs did not apply for, and has not obtained NPDES permit coverage to discharge pollutants to a “water of the United States.” Discharges from an active groundwater dewatering system activity can also have other pollutants from natural deposits (e.g., metals, total dissolved solids, salinity, radioactivity, etc.) that may affect surface water quality.

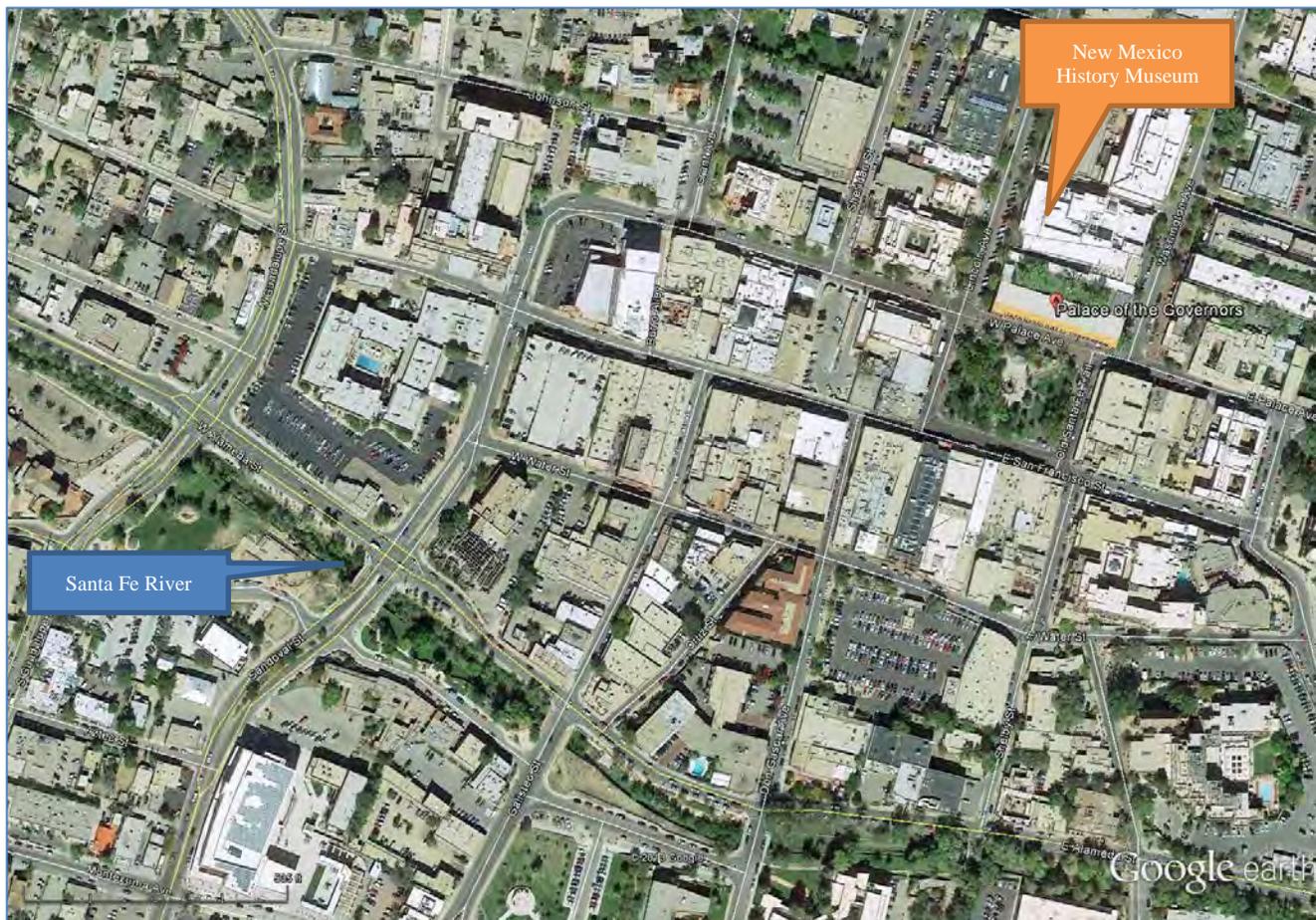
The Owner/Operator should contact the USEPA permitting authority to discuss the need to submit an application. Instructions and NPDES application forms (e.g., Forms 1 and 2) are available at: http://cfpub.epa.gov/npdes/docs.cfm?document_type_id=8&view=Permit%20Applications%20and%20Forms&program_id=1&sort=name. Questions should be directed to Brent Larsen, USEPA Region 6, Permits & Technical Section at 214-665-7523 or larsen.brent@epa.gov.

Area Map

City/County: Santa Fe / Santa Fe

State: New Mexico

Location: New Mexico History Museum, 113 Lincoln Avenue, Santa Fe, NM 87501



NMED/SWQB Official Photograph Log Photo # 1		
Photographer: Erin S. Trujillo	Date: 02/21/2014	Time: 1338 hours
City/County: Santa Fe / Santa Fe	State: New Mexico	
Location: New Mexico History Museum, 113 Lincoln Avenue, Santa Fe, NM 87501		
Subject: East sump with two float pumps in open well.		



NMED/SWQB Official Photograph Log Photo # 2		
Photographer: Erin S. Trujillo	Date: 02/21/2014	Time: 1338 hours
City/County: Santa Fe / Santa Fe	State: New Mexico	
Location: New Mexico History Museum, 113 Lincoln Avenue, Santa Fe, NM 87501		
Subject: Arrow points to water observed flowing from a pipe into the open well.		



NMED/SWQB Official Photograph Log Photo # 3		
Photographer: Erin S. Trujillo	Date: 02/21/2014	Time: 1343 hours
City/County: Santa Fe / Santa Fe	State: New Mexico	
Location: New Mexico History Museum, 113 Lincoln Avenue, Santa Fe, NM 87501		
Subject: Arrows to pumps in the west sump open well		





M & E ENGINEERING
 attn: MICHEL FIDEL
 1222 LUISA ST., SUITE B
 SANTA FE NM 87505

Explanation of codes	
B	Analyte Detected in Method Blank
E	Result is Estimated
H	Analyzed Out of Hold Time
N	Tentatively Identified Compound
S	Subcontracted
1-9	See Footnote

STANDARD

ARSA Analytical, LLC

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **M & E ENGINEERING**
 Project: **NM HISTORY MUS**
 Order: **09070259 MEE01**

Receipt: **07-09-09**

[Signature]
 For Elvin J. Chavez - President, ARS Analytical LLC

Sample: **EAST SUMP**
 Matrix: **W**

Collected: **07-09-09 8:50:00** By: **MH**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
09070259-001A		EPA 624 Purgeable VOCs by GC/MS							By: RAA	
V09263	XG.2009.917.25	71-55-6	1,1,1-Trichloroethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	79-00-5	1,1,2-Trichloroethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	75-34-3	1,1-Dichloroethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	75-35-4	1,1-Dichloroethene	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	107-06-2	1,2 Dichloroethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	95-50-1	1,2-Dichlorobenzene	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	78-87-5	1,2-Dichloropropane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	541-73-1	1,3-Dichlorobenzene	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	106-46-7	1,4-Dichlorobenzene	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	75-00-3	2-Chloroethylvinylether	ND	ug/L	1	5	1	07-13-09	07-14-09
V09263	XG.2009.917.25	107-02-8	Acrolein	ND	ug/L	1	20	1	07-13-09	07-14-09
V09263	XG.2009.917.25	107-13-1	Acrylonitrile	ND	ug/L	1	20	1	07-13-09	07-14-09
V09263	XG.2009.917.25	71-43-2	Benzene	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	74-97-5	Bromochloromethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	75-27-4	Bromodichloromethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	75-25-2	Bromoform	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	74-83-9	Bromomethane	ND	ug/L	1	10	1	07-13-09	07-14-09
V09263	XG.2009.917.25	56-23-5	Carbon tetrachloride	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	108-90-7	Chlorobenzene	ND	ug/L	1	20	1	07-13-09	07-14-09
V09263	XG.2009.917.25	124-48-1	Chlorodibromomethane	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	75-00-3	Chloroethane	ND	ug/L	1	5	1	07-13-09	07-14-09
V09263	XG.2009.917.25	67-88-3	Chloroform	ND	ug/L	1	1	1	07-13-09	07-14-09
V09263	XG.2009.917.25	74-87-3	Chloromethane	ND	ug/L	1	5	1	07-13-09	07-14-09
V09263	XG.2009.917.25	10061-01-5	cis-1,3 Dichloropropene	ND	ug/L	1	1	1	07-13-09	07-14-09

ARS Analytical, LLC

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: M & E ENGINEERING

Project: NM HISTORY MUS

Order: 09070259 MEE01

Receipt: 07-09-09

Sample: EAST SUMP

Collected: 07-09-09 8:50:00 By: MH

Matrix: W

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date	
09070259-001A		EPA 624 Purgeable VOCs by GC/MS						By: RAA			
V09263	XG.2009.917.25	100-41-4	Ethylbenzene	ND	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	75-09-2	Methylene chloride	ND	ug/L	1	10	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	95-47-6	o-Xylene	ND	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	108-38-3/108-42	p/m-Xylenes	ND	ug/L	1	2	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	156-60-5	t-1,2 Dichloroethene	ND	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	10061-02-6	t-1,3 Dichloropropene	ND	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	127-18-4	Tetrachloroethene	78	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	108-88-3	Toluene	ND	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	79-01-6	Trichloroethene	ND	ug/L	1	1	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	75-69-4	Trichlorofluoromethane	ND	ug/L	1	2	1	07-13-09	07-14-09	
V09263	XG.2009.917.25	75-01-4	Vinyl chloride	ND	ug/L	1	5	1	07-13-09	07-14-09	

Sample: WEST SUMP

Collected: 07-09-09 8:40:00 By: MH

Matrix: W

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date	
09070259-002A		EPA 624 Purgeable VOCs by GC/MS						By: RAA			
V09263	XG.2009.917.26	71-55-6	1,1,1-Trichloroethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	79-34-5	1,1,2,2-Tetrachloroethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	79-00-5	1,1,2-Trichloroethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-34-3	1,1-Dichloroethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-35-4	1,1-Dichloroethene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	107-06-2	1,2 Dichloroethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	95-50-1	1,2-Dichlorobenzene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	78-87-5	1,2-Dichloropropane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	541-73-1	1,3-Dichlorobenzene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	106-46-7	1,4-Dichlorobenzene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-00-3	2-Chloroethylvinylether	ND	ug/L	1	5	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	107-02-8	Acrolein	ND	ug/L	1	20	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	107-13-1	Acrylonitrile	ND	ug/L	1	20	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	71-43-2	Benzene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	74-97-5	Bromochloromethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-27-4	Bromodichloromethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-25-2	Bromoform	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	74-83-9	Bromomethane	ND	ug/L	1	10	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	56-23-5	Carbon tetrachloride	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	108-90-7	Chlorobenzene	ND	ug/L	1	20	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	124-48-1	Chlorodibromomethane	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-00-3	Chloroethane	ND	ug/L	1	5	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	67-68-3	Chloroform	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	74-87-3	Chloromethane	ND	ug/L	1	5	2	07-13-09	07-14-09	

ARS Analytical, LLC

Certificate of Analysis

All samples are reported on an "as received" basis, unless otherwise noted (i.e. - Dry Weight).

Client: **M & E ENGINEERING**Project: **NM HISTORY MUS**Order: **09070259 MEE01**Receipt: **07-09-09**Sample: **WEST SUMP**Collected: **07-09-09 8:40:00** By: **MH**Matrix: **W**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date	
09070259-002A		EPA 624 Purgeable VOCs by GC/MS						By: RAA			
V09263	XG.2009.917.26	10061-01-5	cis-1,3 Dichloropropene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	100-41-4	Ethylbenzene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-09-2	Methylene chloride	ND	ug/L	1	10	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	95-47-6	o-Xylene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	108-38-3/108-42	p/m-Xylenes	ND	ug/L	1	2	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	156-60-5	t-1,2 Dichloroethene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	10061-02-6	t-1,3 Dichloropropene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	127-18-4	Tetrachloroethene	2.0	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	108-88-3	Toluene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	79-01-6	Trichloroethene	ND	ug/L	1	1	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-69-4	Trichlorofluoromethane	ND	ug/L	1	2	2	07-13-09	07-14-09	
V09263	XG.2009.917.26	75-01-4	Vinyl chloride	ND	ug/L	1	5	2	07-13-09	07-14-09	

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Analytical results are not corrected for method blank or field blank contamination.

- The surrogate, Dibromofluoromethane, was outside of QA/QC criteria, high due to matrix interferences. All other surrogates were within acceptance criteria, demonstrating purge efficiency.
- The surrogates, Dibromofluoromethane and 1,2-Dichloroethane,d4, were outside of QA/QC criteria, high due to matrix interferences. All other surrogates were within acceptance criteria, demonstrating purge efficiency.



NEW MEXICO
ENVIRONMENT DEPARTMENT



Surface Water Quality Bureau

SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

Harold Runnels Building, N2050
1190 South St. Francis Drive (87505)
P.O. Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-0187 Fax (505) 827-0160
www.nmenv.state.nm.us

RYAN FLYNN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

ERIKA SCHWENDER
Director
Resource Protection Division

Certified Mail - Return Receipt Requested

April 14, 2014

Veronica Gonzales, Secretary
c/o Lisa Vornholt, Facilities Manager
State of New Mexico, Department of Cultural Affairs
407 Galisteo, Suite 260
Santa Fe, NM 87501

Re: New Mexico History Museum; Unpermitted Discharge; SIC 8412; NPDES Compliance Evaluation Inspection; NPDES Tracking No. NMU001873; February 21, 2014 – Additional Information

Dear Secretary Gonzales:

Enclosed please find a copy of laboratory reports for water samples collected from the east and west sumps of the New Mexico History Museum. The samples were collected and submitted for analysis by the NMED Groundwater Quality Bureau (GWQB) on March 13, 2014.

A summary of selected results above detection and information on surface water quality standards for comparison purposes is also enclosed. When available from the GWQB, additional semi-volatile results will be provided under separate letter.

If you have any questions, please contact Erin S. Trujillo of the Point Source Regulation Section (PSRS) staff at 505-827-0418.

Sincerely,

/s/Bruce J. Yurdin

Bruce J. Yurdin
Program Manager
Point Source Regulation Section
Surface Water Quality Bureau

cc: -Rashida Bowlin, USEPA (6EN-AS) by e-mail
-Carol Peters-Wagnon, USEPA (6EN) by e-mail
-Racquel Douglas, USEPA (6EN) by e-mail
-Brent Larsen, USEPA (6WQ-PP) by e-mail
-Everett Spencer, USEPA (6EN) by e-mail
-Gladys Gooden-Jackson, USEPA (6EN) e-mail
-Heather Lutz, NMED GWQB by e-mail
-Robert Italiano, NMED District II by e-mail
-David Catanach, P.E., City of Santa Fe by e-mail
-Alex Puglisi, City of Santa Fe by e-mail

**State of New Mexico Department of Cultural Affairs
New Mexico History Museum
NPDES Tracking No. NMU001873**

Additional Information

Summary of the Selected Results

Table 1: Volatile Organic Compounds (VOCs) Above Detection (micrograms per Liter (µg/L))*

Pollutant	East Sump	West Sump	West Sump Duplicate
Chloroform	0.37	0.11	
Tetrachloroethene**	35 ****	0.59	0.60
Total Trihalomethanes***	0.37	0.11	

Notes:

*EPA SW846 8260B

**Tetrachloroethene is systematic, chemical structure, name for Tetrachloroethylene (also known as Perchloroethylene or PERC)

***Trihalomethanes (THM) are a group of four chemicals (Chloroform, Bromoform, Bromodichloromethane, and Dibromochloromethane) that can form when chlorine or other disinfectants, react with naturally occurring organic and inorganic matter in water. Sample results in sumps were not detected above the sample detection limit: Bromoform (<0.11 µg/L), Bromodichloromethane (<0.09 µg/L), and Dibromochloromethane (0.08 µg/L).

****Result above the in-stream surface water quality numeric criteria for Aquatic Life – Human Health Organism Only (see Table 3) below.

Table 2: Other Selected Results Above Detection (µg/L, unless indicated)

Pollutant, Dissolved*	East Sump	West Sump	EPA Method
Arsenic	2	1	200.8
Barium	500	100	200.8
Boron	50	80	200.8
Copper	20	<10	200.8
Molybdenum	2	4	200.8
Nickel	20		200.8
Uranium	10	26	200.8
Vanadium	2		200.8
Zinc	1160**	20	200.8
Nitrate + Nitrite as N	18.3 mg/L	3.87 mg/L	353.2

milligrams per Liter (mg/L) x 1000 = micrograms per Liter (µg/L)

*Laboratory reports indicate sample type was filtered (filter size was not specified on report). Dissolved Nitrate + Nitrite as N results are provided; however, the in-stream surface water quality numeric criteria for livestock watering is for an un-filtered (i.e., total) pollutant concentration (see Table 5).

**Result above the in-stream surface water quality numeric criteria for acute and chronic aquatic life (see Table 6)

Comparison Information (Selected Surface Water Quality Standard Numeric Criteria)

Santa Fe River from Guadalupe Street, in Santa Fe to Nichols Reservoir in Segment 20.6.4.137 State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 New Mexico Administrative Code (NMAC) or New Mexico Water Quality Standards (WQS)) has the designated uses of coolwater aquatic life, wildlife habitat, primary contact, livestock watering, and irrigation.

For informational and comparison purposes, the following are the New Mexico WQS numeric criteria in 20.6.4.900 H and J NMAC applicable to existing, designated or attainable uses:

Table 3: Selected VOC WQS Numeric Criteria (µg/L)

Pollutant	CAS Number	Domestic Water Supply (DWS)*	Aquatic Life	Type
			Human Health-Organism Only (HH-OO)	
Chloroform	67-66-3	57	4,700	C
Bromoform	75-25-2	44	1,400	C
Bromodichloromethane (Chlorodibromomethane)	124-48-1	4.2	130	C
Dibromochloromethane (Dichlorobromomethane)	75-27-4	5.6	170	C
Tetrachloroethylene	127-18-4	5	33	C P

C = cancer-causing; P = persistent

*DWS is not a designated use of Santa Fe River in Segment 20.6.4.137 NMAC

Table 5: Other WQS Numeric Criteria (µg/L, unless indicated)

Pollutant	DWS*	Irrigation	Livestock Watering	Aquatic Life	Aquatic Life	Aquatic Life	Type
				Acute	Chronic	HH-OO	
Arsenic, dissolved	10	100	200	340	150	9	C,P
Barium, dissolved	2,000						
Boron, dissolved		750	5,000				
Copper, dissolved	1300	200	500	a	a		
Manganese, dissolved				a	a		
Molybdenum, dissolved		1,000					
Molybdenum, total recoverable				7,920	1,895		
Nickel, dissolved	700			a	a	4,600	P
Nitrite + Nitrate			132 mg/L				
Uranium, dissolved	30						
Vanadium, dissolved		100	100				
Zinc, dissolved	10,500	2,000	25,000	a	a	26,000	P

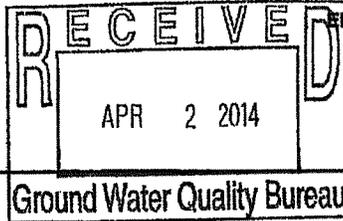
a = Hardness Based Numeric Criteria (see Table 6)

*DWS is not a designated use of Santa Fe River in Segment 20.6.4.137 NMAC

Table 6: Numeric Criteria using NMED Hardness-Dependent Criteria Calculator and Stream Data at Santa Fe River Station 30SantaF052.A

Calculation Based on Reported Ca and Mg Values		
Ca, mg/L (geometric mean)		68.00
Mg, mg/L (geometric mean)		3.66
Calculated Hardness as CaCO ₃ , mg/L		
		184.72
Acute Criteria, Dissolved, µg/L		
	Aluminum	7926.5
	Silver	9.2
	Cadmium	2.79
	Chromium III	941.8
	Copper	24.0
	Lead	125.1
	Manganese	3662.8
	Nickel	786.9
	Zinc	279.6
Chronic Criteria, Dissolved, µg/L		
	Aluminum	3175.7
	Cadmium	0.70
	Chromium	122.5
	Copper	15.1
	Lead	4.9
	Manganese	2023.7
	Nickel	87.4
	Zinc	211.7

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000



EPA: 141001-2011



LIMS Report #: 250545

Ground Water Quality Bureau

Request Id:

2479693

E Sump. (under stairs)

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1180 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

GC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
 Sample Location: *WEST SUMP*
 GOC Initiated: No

Sample #: 2014008610
 Sample Type: Water, Filtered

Date Collected: 3/13/2014 10:48
 Date Received: 3/13/2014 16:33
 Date Reported: 4/1/2014

Sample Note:

EPA 200.7 ICP/OES Metals (Liquid)

Analysis Date: 03/17/2014	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Boron	0.05	mg/L	0.05	1	0.05	RSF	
Calcium	230	mg/L	1	1	1	RSF	
Magnesium	35	mg/L	0.1	1	0	RSF	

EPA 200.8 ICP/MS Metals (Liquid)

Analysis Date: 03/26/2014 14:28	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Aluminum	<0.01	mg/L	0.01	1	0.01	SMP	
Antimony	<0.001	mg/L	0.001	1	0.001	SMP	
Arsenic	0.002	mg/L	0.001	1	0.001	SMP	
Barium	0.5	mg/L	0.1	1	0.1	SMP	
Beryllium	<0.001	mg/L	0.001	1	0.001	SMP	
Cadmium	<0.001	mg/L	0.001	1	0.001	SMP	
Chromium	<0.001	mg/L	0.001	1	0.001	SMP	
Cobalt	<0.001	mg/L	0.001	1	0.001	SMP	
Copper	0.02	mg/L	0.01	1	0.01	SMP	
Lead	<0.001	mg/L	0.001	1	0.001	SMP	
Manganese	0.015	mg/L	0.001	1	0.001	SMP	
Molybdenum	0.002	mg/L	0.001	1	0.001	SMP	
Nickel	0.02	mg/L	0.01	1	0.01	SMP	
Silver	<0.001	mg/L	0.001	1	0.001	SMP	
Thallium	<0.001	mg/L	0.001	1	0.001	SMP	
Uranium	0.010	mg/L	0.001	1	0.001	SMP	



Sample #: 2014008610

Confidential

Page 1 of 3

Print Date: 4/1/2014

LIMS Report #: 250545

Request Id: 2479893

Sample #: 2014008610
Sample Type: Water, Filtered

Date Collected: 3/13/2014 10:48
Date Received: 3/13/2014 16:33
Date Reported: 4/1/2014

EPA 200.8 ICP/MS Metals (Liquid)

Analysis Date: 03/25/2014 14:28	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Vanadium	0.002	mg/L	0.001	1	0.001	SMP	
Zinc	1.16	mg/L	0.01	1	0.01	SMP	

EPA 200.9 GFAA Selenium (Liquid)

Analysis Date: 3/14/2014	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Selenium	<0.005	mg/L	0.005	1	0.005	MMW	

EPA 245.1 CVAA Mercury (Liquid)

Analysis Date: 03/19/2014	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Mercury	<0.0002	mg/L	0.0002	1	0.0002	KMS	C

Final

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence).

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory

Q - Sample submitted to laboratory past holding time

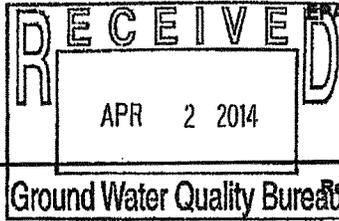
S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.



Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-8000



Request Id: 141001-2011



LIMS Report #: 250544

Ground Water Quality Bureau

Request Id:

2479890

W Sump
(lg Room)

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
 Sample Location: W EAST SUMP
 COC Inflated: No

Sample #: 2014008809
 Sample Type: Water, Filtered

Date Collected: 3/13/2014 10:39
 Date Received: 3/13/2014 16:33
 Date Reported: 4/1/2014

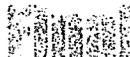
Sample Note:

EPA 200.7 ICP/OES Metals (L.liquid)

Analysis Date: 03/17/2014	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Boron	0.08	mg/L	0.05	1	0.05	RSF	
Calcium	120	mg/L	1	1	1	RSF	
Magnesium	17	mg/L	0.1	1	0	RSF	

EPA 200.8 ICP/MS Metals (L.liquid)

Analysis Date: 03/25/2014 14:23	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Aluminum	<0.01	mg/L	0.01	1	0.01	SMP	
Antimony	<0.001	mg/L	0.001	1	0.001	SMP	
Arsenic	0.001	mg/L	0.001	1	0.001	SMP	
Barium	0.1	mg/L	0.1	1	0.1	SMP	
Beryllium	<0.001	mg/L	0.001	1	0.001	SMP	
Cadmium	<0.001	mg/L	0.001	1	0.001	SMP	
Chromium	<0.001	mg/L	0.001	1	0.001	SMP	
Cobalt	<0.001	mg/L	0.001	1	0.001	SMP	
Copper	<0.01	mg/L	0.01	1	0.01	SMP	
Lead	<0.001	mg/L	0.001	1	0.001	SMP	
Manganese	<0.001	mg/L	0.001	1	0.001	SMP	
Molybdenum	0.004	mg/L	0.001	1	0.001	SMP	
Nickel	<0.01	mg/L	0.01	1	0.01	SMP	
Silver	<0.001	mg/L	0.001	1	0.001	SMP	
Thallium	<0.001	mg/L	0.001	1	0.001	SMP	
Uranium	0.026	mg/L	0.001	1	0.001	SMP	



Sample #: 2014008809

LIMS Report #: 260544

Request Id: 2478680

Sample #: 2014008609
Sample Type: Water, Filtered

Date Collected: 3/13/2014 10:39
Date Received: 3/13/2014 16:33
Date Reported: 4/1/2014

EPA 200.8 ICP/MS Metals (Liquid)

Analysis Date: 03/25/2014 14:23	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Vanadium	0.005	mg/L	0.001	1	0.001	SMP	
Zinc	0.02	mg/L	0.01	1	0.01	SMP	

EPA 200.9 GFAA Selenium (Liquid)

Analysis Date: 3/21/2014	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Selenium	<0.005	mg/L	0.005	1	0.005	MMW	

EPA 245.1 CVAA Mercury (Liquid)

Analysis Date: 03/19/2014	Result	Units	MRL	Dilution Factor	SDL	Analyst Initials	Data Qualifier
Mercury	<0.0002	mg/L	0.0002	1	0.0002	KMS	



Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence).
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (Inorganics)).

Units

- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

Data Qualifier Codes

- | | |
|---|---|
| <ul style="list-style-type: none">A - See note/comments.B - Analyte was detected in the laboratory blank.C - Spike recovery is within method acceptance limits.D - Spike recovery is not within method acceptance limits.E - Analyte value exceeded calibration range.F - Sample matrix interference suspected.H - Sample was analyzed in duplicate.I - Sample was analyzed in triplicate.J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.K - Holding time was exceeded at laboratory. | <ul style="list-style-type: none">L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.N - Insufficient sample to verify results.O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.P - Sample rejected/voided at laboratoryQ - Sample submitted to laboratory past holding timeS - Relative percent difference between duplicates greater than 10% (waters).T - Relative percent difference between duplicates greater than 30% (soils).U - Analyte was not detected in this sample above the method's sample detection limit. |
|---|---|



Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2011



LIMS Report #: 249622

Request Id: 2479691

E Sump
(under stairs)

Submitter: NMED - Ground Water Quality Bureau
HEATHER LUTZ
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: HEATHER LUTZ
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
Sample Location: E WEST SUMP
COC Initiated: No

Sample #: 2014008614
Sample Type: Water, Filtered

Date Collected: 3/13/2014
Date Received: 3/13/2014
Date Reported: 3/25/2014

Sample Note:

EPA 300.0 Part A Anions - Chloride and/or Sulfate

Analysis Date: 03/14/2014 09:37	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Chloride 337	mg/L	10	2	20.0	SJO	

EPA 300.0 Part A Anions - Chloride and/or Sulfate

Analysis Date: 03/14/2014 09:59	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Sulfate 59.3	mg/L	10	1	10.0	SJO	

SM 2320 B - Alkalinity, bicarbonate, carbonate, pH

Analysis Date: 03/21/2014 10:06	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Alkalinity 166	mg/L	20	1	20.0	NG	
	Carbonate 0	mg/L	0	1	0	NG	
	Bicarbonate 166	mg/L	20	1	20.0	NG	

SM2540C Total Dissolved Solids (TDS)

Analysis Date: 03/13/2014 15:45:00	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Total Dissolved Solids 1090	mg/L	25.0	1	25	ALS	

Final

LIMS Report #: 249622

Request Id: 2479691

Sample #: 2014008614
Sample Type: Water, Filtered

Date Collected: 3/13/2014
Date Received: 3/13/2014
Date Reported: 3/25/2014

SM 4500H+ pH

Analysis Date: 03/21/2014 10:06

Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
pH 8.08					NG	

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

Data Qualifier Codes

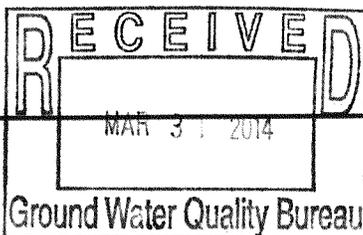
- | | |
|---|---|
| A - See note/comments. | L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level. |
| B - Analyte was detected in the laboratory blank. | M - Regulated parameter value equals or exceeds the EPA SDWA Action Level. |
| C - Spike recovery is within method acceptance limits. | N - Insufficient sample to verify results. |
| D - Spike recovery is not within method acceptance limits. | O - Method internal standard(s) not within method acceptance limits when analyzed undiluted. |
| E - Analyte value exceeded calibration range. | P - Sample rejected/voided at laboratory. |
| F - Sample matrix interference suspected. | Q - Sample submitted to laboratory past holding time. |
| H - Sample was analyzed in duplicate. | S - Relative percent difference between duplicates greater than 10% (waters). |
| I - Sample was analyzed in triplicate. | T - Relative percent difference between duplicates greater than 30% (soils). |
| J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. | U - Analyte was not detected in this sample above the method's sample detection limit. |
| K - Holding time was exceeded at laboratory. | |

Final

Sample #: 2014008614

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000

EPA: 141001-2011



LIMS Report #: 249621

Request id: 2479688

West Sump
(lg room)

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
 Sample Location: *W*-EAST SUMP
 COC Initiated: No

Sample #: 2014008613
 Sample Type: Water, Filtered

Date Collected: 3/13/2014
 Date Received: 3/13/2014
 Date Reported: 3/25/2014

Sample Note:

EPA 300.0 Part A Anions - Chloride and/or Sulfate

Analysis Date: 03/14/2014 10:21	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Chloride 130	mg/L	10	1	10.0	SJO	
	Sulfate 106	mg/L	10	1	10.0	SJO	

SM 2320 B - Alkalinity, bicarbonate, carbonate, pH

Analysis Date: 03/21/2014 09:59	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Alkalinity 181	mg/L	20	1	20.0	NG	
	Carbonate 0	mg/L	0	1	0	NG	
	Bicarbonate 181	mg/L	20	1	20.0	NG	

SM2540C Total Dissolved Solids (TDS)

Analysis Date: 03/13/2014 15:45:00	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Total Dissolved Solids 606	mg/L	25.0	1	25	ALS	

SM 4500H+ pH

Analysis Date: 03/21/2014 09:59	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	pH 7.96					NG	



Sample #: 2014008613

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

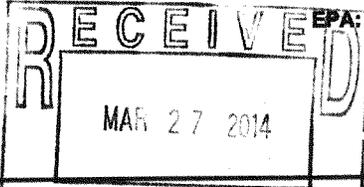
Data Qualifier Codes

- | | |
|---|---|
| A - See note/comments. | L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level. |
| B - Analyte was detected in the laboratory blank. | M - Regulated parameter value equals or exceeds the EPA SDWA Action Level. |
| C - Spike recovery is within method acceptance limits. | N - Insufficient sample to verify results. |
| D - Spike recovery is not within method acceptance limits. | O - Method internal standard(s) not within method acceptance limits when analyzed undiluted. |
| E - Analyte value exceeded calibration range. | P - Sample rejected/voided at laboratory. |
| F - Sample matrix interference suspected. | Q - Sample submitted to laboratory past holding time. |
| H - Sample was analyzed in duplicate. | S - Relative percent difference between duplicates greater than 10% (waters). |
| I - Sample was analyzed in triplicate. | T - Relative percent difference between duplicates greater than 30% (soils). |
| J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. | U - Analyte was not detected in this sample above the method's sample detection limit. |
| K - Holding time was exceeded at laboratory. | |

Final

Sample #: 2014008613

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000



EPA: 141001-2011



LIMS Report #: 249499

Ground Water Quality Bureau

Request Id:

2479692

*East Sump.
(under stairs)*

Submitter: NMED - Ground Water Quality Bureau
HEATHER LUTZ
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: HEATHER LUTZ
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
Sample Location: *E* WEST SUMP
COC Initiated: No

Sample #: 2014008608
Sample Type: Water, Filtered

Date Collected: 3/13/2014 10:46
Date Received: 3/13/2014 16:33
Date Reported: 3/24/2014

Sample Note:

EPA 200.7 ICP/OES Metals (Liquid)

Analysis Date: 03/17/2014

	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Calcium	230	mg/L	1	1	1	RSF	
Iron	<0.05	mg/L	0.05	1	0.05	RSF	C
Magnesium	35	mg/L	0.1	1	0	RSF	C
Manganese	<0.05	mg/L	0.05	1	0.05	RSF	C
Potassium	5	mg/L	1	1	1	RSF	C
Sodium	43	mg/L	1	1	1	RSF	C

Final

Sample #: 2014008608

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory

Q - Sample submitted to laboratory past holding time

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

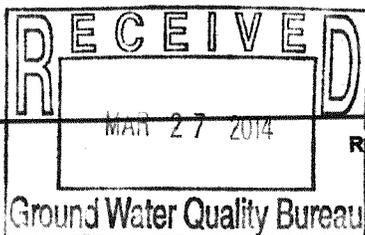
U - Analyte was not detected in this sample above the method's sample detection limit.

Final

Sample #: 2014008608

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2011



LIMS Report #: 249498

Request Id: 2479689

*West Sump
(1g room)*

Submitter: NMED - Ground Water Quality Bureau
HEATHER LUTZ
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: HEATHER LUTZ
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
Sample Location: *W* EAST SUMP
COC Initiated: No

Sample #: 2014008607
Sample Type: Water, Filtered

Date Collected: 3/13/2014 10:38
Date Received: 3/13/2014 16:33
Date Reported: 3/24/2014

Sample Note:

EPA 200.7 ICP/OES Metals (Liquid)

Analysis Date: 03/17/2014

	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
Calcium	120	mg/L	1	1	1	RSF	
Iron	<0.05	mg/L	0.05	1	0.05	RSF	
Magnesium	17	mg/L	0.1	1	0	RSF	
Manganese	<0.05	mg/L	0.05	1	0.05	RSF	
Potassium	3	mg/L	1	1	1	RSF	
Sodium	57	mg/L	1	1	1	RSF	

Final

Sample #: 2014008607

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

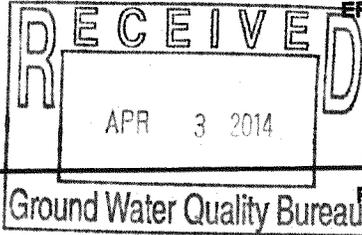
Data Qualifier Codes

- | | |
|---|---|
| A - See note/comments. | L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level. |
| B - Analyte was detected in the laboratory blank. | M - Regulated parameter value equals or exceeds the EPA SDWA Action Level. |
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| H - Sample was analyzed in duplicate. | S - Relative percent difference between duplicates greater than 10% (waters). |
| I - Sample was analyzed in triplicate. | T - Relative percent difference between duplicates greater than 30% (soils). |
| J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. | U - Analyte was not detected in this sample above the method's sample detection limit. |
| K - Holding time was exceeded at laboratory. | |

Final

Sample #: 2014008607

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000



EPA: 141001-2011



LIMS Report #: 250412

Request Id: 2479694

Submitter: NMED - Ground Water Quality Bureau
HEATHER LUTZ
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: HEATHER LUTZ
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
Sample Location: *EAST* ~~WEST~~ SUMP *JL*
COC Initiated: No

Sample #: 2014008612
Sample Type: Water, Filtered

Date Collected: 3/13/2014
Date Received: 3/13/2014
Date Reported: 3/31/2014

Sample Note:

EPA 351.2 Total Kjeldahl Nitrogen - TKN

Analysis Date	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
03/28/2014 11:40	TKN <0.50	mg/L	0.5	1	0.50	SJO	

EPA 353.2 Nitrate + Nitrite

Analysis Date	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
03/25/2014 14:12	Nitrate + Nitrite as Nitrogen 18.3	mg/L	0.1	5	0.50	SJO	

Final

Sample #: 2014008612

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
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- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
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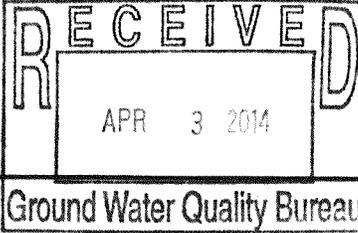
Data Qualifier Codes

- | | |
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| K - Holding time was exceeded at laboratory. | |

Final

Sample #: 2014008612

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000



EPA: 141001-2011



LIMS Report #: 250411

Request Id: 2479687

Submitter: NMED - Ground Water Quality Bureau
HEATHER LUTZ
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: HEATHER LUTZ
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
Sample Location: *West* EAST SUMP *Acc*
COC Initiated: No

Sample #: 2014008611
Sample Type: Water, Filtered

Date Collected: 3/13/2014
Date Received: 3/13/2014
Date Reported: 3/31/2014

Sample Note:

EPA 351.2 Total Kjeldahl Nitrogen - TKN

Analysis Date: 03/28/2014 11:39	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	TKN <0.50	mg/L	0.5	1	0.50	SJO	

EPA 353.2 Nitrate + Nitrite

Analysis Date: 03/25/2014 14:12	Result	Units	MRL	Dilution Factor	SDL	Analyst	Data Qualifier
	Nitrate + Nitrite as Nitrogen 3.87	mg/L	0.1	1	0.10	SJO	

Final

Sample #: 2014008611

Definitions

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Data Qualifier Codes

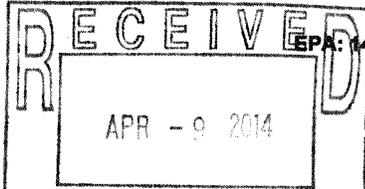
- | | |
|---|---|
| <ul style="list-style-type: none">A - See note/comments.B - Analyte was detected in the laboratory blank.C - Spike recovery is within method acceptance limits.D - Spike recovery is not within method acceptance limits.E - Analyte value exceeded calibration range.F - Sample matrix interference suspected.H - Sample was analyzed in duplicate.I - Sample was analyzed in triplicate.J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.K - Holding time was exceeded at laboratory. | <ul style="list-style-type: none">L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.N - Insufficient sample to verify results.O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.P - Sample rejected/voided at laboratory.Q - Sample submitted to laboratory past holding time.S - Relative percent difference between duplicates greater than 10% (waters).T - Relative percent difference between duplicates greater than 30% (soils).U - Analyte was not detected in this sample above the method's sample detection limit. |
|---|---|

Final

Sample #: 2014008611

Print Date: 3/31/2014

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000



EPA: 141001-2011



LIMS Report #: 251005

Ground Water Quality Bureau

Request Id:

2479684

*East Side
 under stairs
 small room*

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM

Sample Location: *EAST WEST SUMP HL*

COC Initiated: No

Sample #: 2014008603
 Sample Type: Water, Non-filtered

Date Collected: 3/13/2014 10:40
 Date Received: 3/13/2014 16:31
 Date Reported: 4/3/2014
 Temp at Receipt (deg C): 7.4

Sample Note:

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 18:54	Result	Units	SDL	Analyst Initials	Data Qualifier
71-43-2	Benzene		µg/L	0.11	NRH	U
108-86-1	Bromobenzene		µg/L	0.07	NRH	U
74-97-5	Bromochloromethane		µg/L	0.15	NRH	U
75-27-4	Bromodichloromethane		µg/L	0.09	NRH	U
75-25-2	Bromoform		µg/L	0.11	NRH	U
74-83-9	Bromomethane		µg/L	3.80	NRH	U, D
78-93-3	2-Butanone (MEK)		µg/L	0.59	NRH	U
104-51-8	n-Butylbenzene		µg/L	0.30	NRH	U
135-98-8	sec-Butylbenzene		µg/L	0.14	NRH	U
98-06-6	tert-Butylbenzene		µg/L	0.14	NRH	U
1634-04-4	tert-Butyl Methyl Ether (MTBE)		µg/L	0.09	NRH	U
56-23-5	Carbon Tetrachloride		µg/L	0.12	NRH	U
108-90-7	Chlorobenzene		µg/L	0.11	NRH	U
75-00-3	Chloroethane		µg/L	2.6	NRH	U, D
67-66-3	Chloroform	0.37	µg/L	0.08	NRH	
74-87-3	Chloromethane		µg/L	0.43	NRH	U
95-49-8	2-Chlorotoluene		µg/L	0.11	NRH	U
106-43-4	4-Chlorotoluene		µg/L	0.13	NRH	U
98-12-8	1,2-Dibromo-3-chloropropane (DBCP)		µg/L	0.20	NRH	U
124-48-1	Dibromochloromethane		µg/L	0.08	NRH	U

Final

Sample #: 2014008603

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 18:54	Result	Units	SDL	Analyst Initials	Data Qualifier
106-93-4		1,2-Dibromoethane (EDB)	µg/L	0.09	NRH	U
74-95-3		Dibromomethane	µg/L	0.09	NRH	U
95-50-1		1,2-Dichlorobenzene	µg/L	0.09	NRH	U
541-73-1		1,3-Dichlorobenzene	µg/L	0.13	NRH	U
106-46-7		1,4-Dichlorobenzene	µg/L	0.10	NRH	U
75-71-8		Dichlorodifluoromethane	µg/L	0.47	NRH	U
75-34-3		1,1-Dichloroethane	µg/L	0.10	NRH	U
107-06-2		1,2-Dichloroethane	µg/L	0.07	NRH	U
75-35-4		1,1-Dichloroethene	µg/L	0.13	NRH	U
156-59-2		cis-1,2-Dichloroethene	µg/L	0.12	NRH	U
156-60-5		trans-1,2-Dichloroethene	µg/L	0.12	NRH	U
78-87-5		1,2-Dichloropropane	µg/L	0.10	NRH	U
142-28-9		1,3-Dichloropropane	µg/L	0.09	NRH	U
594-20-7		2,2-Dichloropropane	µg/L	0.18	NRH	U
563-58-6		1,1-Dichloropropene	µg/L	0.14	NRH	U
10061-01-5		cis-1,3-Dichloropropene	µg/L	0.10	NRH	U
10061-02-6		trans-1,3-Dichloropropene	µg/L	0.09	NRH	U
100-41-4		Ethylbenzene	µg/L	0.10	NRH	U
87-68-3		Hexachlorobutadiene	µg/L	0.24	NRH	U
98-82-8		Isopropylbenzene	µg/L	0.14	NRH	U
99-87-6		4-Isopropyltoluene	µg/L	0.18	NRH	U
75-09-2		Methylene Chloride	µg/L	0.15	NRH	U
91-20-3		Naphthalene	µg/L	0.20	NRH	U, D
98-95-3		Nitrobenzene	µg/L	7.0	NRH	U
103-65-1		Propylbenzene	µg/L	0.16	NRH	U
100-42-5		Styrene	µg/L	0.12	NRH	U
630-20-6		1,1,1,2-Tetrachloroethane	µg/L	0.08	NRH	U
79-34-5		1,1,2,2-Tetrachloroethane	µg/L	0.13	NRH	U
127-18-4		Tetrachloroethene	35 µg/L	0.15	NRH	U
108-88-3		Toluene	µg/L	0.10	NRH	U
87-61-6		1,2,3-Trichlorobenzene	µg/L	0.25	NRH	U
120-82-1		1,2,4-Trichlorobenzene	µg/L	0.24	NRH	U
71-55-6		1,1,1-Trichloroethane	µg/L	0.12	NRH	U
79-00-5		1,1,2-Trichloroethane	µg/L	0.11	NRH	U
79-01-6		Trichloroethene	µg/L	0.15	NRH	U
75-69-4		Trichlorofluoromethane	µg/L	0.20	NRH	U
96-18-4		1,2,3-Trichloropropane	µg/L	0.10	NRH	U
95-63-6		1,2,4-Trimethylbenzene	µg/L	0.15	NRH	U
108-67-8		1,3,5-Trimethylbenzene	µg/L	0.12	NRH	U
75-01-4		Vinyl Chloride	µg/L	0.29	NRH	U
95-47-6		ortho-Xylene	µg/L	0.10	NRH	U
108-38-3 & 106-42-3		para- & meta-Xylenes	µg/L	0.23	NRH	U
		Total Xylenes	µg/L	0.10		U
		Total Trihalomethanes	0.37 µg/L	0.08		
		Dibromofluoromethane (Surrogate)	9.4 µg/L		% Recovery 94.4 NRH	QC range % 80 - 120
		1,2-Dichloroethane-d4 (Surrogate)	10.4 µg/L		% Recovery 103.5 NRH	QC range % 80 - 120

Sample #: 2014008603

Print Date: 4/3/2014

CAS#	Analysis Date: 03/25/2014 18:54	Result	Units	SDL	Analyst initials	Data Qualifier	
				% Recovery		QC range %	
		Toluene-d8 (Surrogate)	9.9	µg/L	99.0	NRH	80 - 120
				% Recovery		QC range %	
		4-Bromofluorobenzene (Surrogate)	9.9	µg/L	99.0	NRH	80 - 120

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (Inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

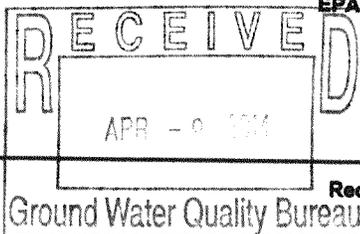
S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000

EPA: 141001-2011



LIMS Report #: 251003

Request Id: 2479681

*West Side
 larger room*

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM

Sample Location: *West EAST SUMP HCC*

COC Initiated: No

Sample #: 2014008601
 Sample Type: Water, Non-filtered

Date Collected: 3/13/2014 10:25
 Date Received: 3/13/2014 16:31
 Date Reported: 4/3/2014
 Temp at Receipt (deg C): 5.5

Sample Note:

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 15:29	Result	Units	SDL	Analyst Initials	Data Qualifier
71-43-2	Benzene		µg/L	0.11	NRH	U
108-86-1	Bromobenzene		µg/L	0.07	NRH	U
74-97-5	Bromochloromethane		µg/L	0.15	NRH	U
75-27-4	Bromodichloromethane		µg/L	0.09	NRH	U
75-25-2	Bromoform		µg/L	0.11	NRH	U
74-83-9	Bromomethane		µg/L	3.80	NRH	U, D
78-93-3	2-Butanone (MEK)		µg/L	0.59	NRH	U
104-51-8	n-Butylbenzene		µg/L	0.30	NRH	U
135-98-8	sec-Butylbenzene		µg/L	0.14	NRH	U
98-06-6	tert-Butylbenzene		µg/L	0.14	NRH	U
1634-04-4	tert-Butyl Methyl Ether (MTBE)		µg/L	0.09	NRH	U
56-23-5	Carbon Tetrachloride		µg/L	0.12	NRH	U
108-90-7	Chlorobenzene		µg/L	0.11	NRH	U
75-00-3	Chloroethane		µg/L	2.6	NRH	U, D
67-66-3	Chloroform	0.11	µg/L	0.08	NRH	
74-87-3	Chloromethane		µg/L	0.43	NRH	U
95-49-8	2-Chlorotoluene		µg/L	0.11	NRH	U
106-43-4	4-Chlorotoluene		µg/L	0.13	NRH	U
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		µg/L	0.20	NRH	U
124-48-1	Dibromochloromethane		µg/L	0.08	NRH	U

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

JAS#	Analysis Date: 03/25/2014 15:29	Result	Units	SDL	Analyst initials	Data Qualifier
06-93-4	1,2-Dibromoethane (EDB)		µg/L	0.09	NRH	U
'4-95-3	Dibromomethane		µg/L	0.09	NRH	U
15-50-1	1,2-Dichlorobenzene		µg/L	0.09	NRH	U
141-73-1	1,3-Dichlorobenzene		µg/L	0.13	NRH	U
106-46-7	1,4-Dichlorobenzene		µg/L	0.10	NRH	U
75-71-8	Dichlorodifluoromethane		µg/L	0.47	NRH	U
75-34-3	1,1-Dichloroethane		µg/L	0.10	NRH	U
107-06-2	1,2-Dichloroethane		µg/L	0.07	NRH	U
75-35-4	1,1-Dichloroethene		µg/L	0.13	NRH	U
156-59-2	cis-1,2-Dichloroethene		µg/L	0.12	NRH	U
156-60-5	trans-1,2-Dichloroethene		µg/L	0.12	NRH	U
78-87-5	1,2-Dichloropropane		µg/L	0.10	NRH	U
142-28-9	1,3-Dichloropropane		µg/L	0.09	NRH	U
594-20-7	2,2-Dichloropropane		µg/L	0.18	NRH	U
563-58-6	1,1-Dichloropropene		µg/L	0.14	NRH	U
10061-01-5	cis-1,3-Dichloropropene		µg/L	0.10	NRH	U
10061-02-6	trans-1,3-Dichloropropene		µg/L	0.09	NRH	U
100-41-4	Ethylbenzene		µg/L	0.10	NRH	U
87-68-3	Hexachlorobutadiene		µg/L	0.24	NRH	U
98-82-8	Isopropylbenzene		µg/L	0.14	NRH	U
99-87-6	4-Isopropyltoluene		µg/L	0.18	NRH	U
75-09-2	Methylene Chloride		µg/L	0.15	NRH	U
91-20-3	Naphthalene		µg/L	0.20	NRH	U, D
98-95-3	Nitrobenzene		µg/L	7.0	NRH	U, D
103-65-1	Propylbenzene		µg/L	0.16	NRH	U
100-42-5	Styrene		µg/L	0.12	NRH	U
630-20-6	1,1,1,2-Tetrachloroethane		µg/L	0.08	NRH	U
79-34-5	1,1,2,2-Tetrachloroethane		µg/L	0.13	NRH	U
127-18-4	Tetrachloroethene	0.59	µg/L	0.15	NRH	U
108-88-3	Toluene		µg/L	0.10	NRH	U
87-61-6	1,2,3-Trichlorobenzene		µg/L	0.25	NRH	U
120-82-1	1,2,4-Trichlorobenzene		µg/L	0.24	NRH	U
71-55-6	1,1,1-Trichloroethane		µg/L	0.12	NRH	U
79-00-5	1,1,2-Trichloroethane		µg/L	0.11	NRH	U
79-01-6	Trichloroethene		µg/L	0.15	NRH	U
75-69-4	Trichlorofluoromethane		µg/L	0.20	NRH	U
96-18-4	1,2,3-Trichloropropane		µg/L	0.10	NRH	U
95-63-6	1,2,4-Trimethylbenzene		µg/L	0.15	NRH	U
108-67-8	1,3,5-Trimethylbenzene		µg/L	0.12	NRH	U
75-01-4	Vinyl Chloride		µg/L	0.29	NRH	U
95-47-6	ortho-Xylene		µg/L	0.10	NRH	U
108-38-3 & 106-42-3	para- & meta-Xylenes		µg/L	0.23	NRH	U
	Total Xylenes		µg/L	0.10		U
	Total Trihalomethanes	0.11	µg/L	0.08		
				% Recovery		QC range %
	Dibromofluoromethane (Surrogate)	9.8	µg/L	97.6	NRH	80 - 120
				% Recovery		QC range %
	1,2-Dichloroethane-d4 (Surrogate)	10.4	µg/L	104.4	NRH	80 - 120

Final

Sample #: 2014008601

Print Date: 4/3/2014

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 15:29	Result	Units	SDL	Analyst Initials	Data Qualifier
				% Recovery		QC range %
		Toluene-d8 (Surrogate)	10.2	µg/L	101.8	NRH 80 - 120
				% Recovery		QC range %
		4-Bromofluorobenzene (Surrogate)	9.8	µg/L	98.2	NRH 80 - 120

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence).
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (Inorganics)).

Units

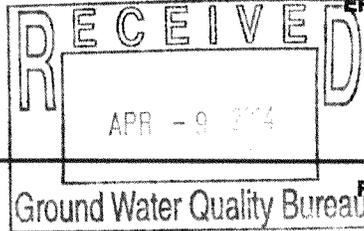
- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

Data Qualifier Codes

- | | |
|--|---|
| <ul style="list-style-type: none"> A - See note/comments. B - Analyte was detected in the laboratory blank. C - Spike recovery is within method acceptance limits. D - Spike recovery is not within method acceptance limits. E - Analyte value exceeded calibration range. F - Sample matrix interference suspected. H - Sample was analyzed in duplicate. I - Sample was analyzed in triplicate. J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. K - Holding time was exceeded at laboratory. | <ul style="list-style-type: none"> L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level. M - Regulated parameter value equals or exceeds the EPA SDWA Action Level. N - insufficient sample to verify results. O - Method internal standard(s) not within method acceptance limits when analyzed undiluted. P - Sample rejected/voided at laboratory. Q - Sample submitted to laboratory past holding time. S - Relative percent difference between duplicates greater than 10% (waters). T - Relative percent difference between duplicates greater than 30% (soils). U - Analyte was not detected in this sample above the method's sample detection limit. |
|--|---|

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000

EPA: 141001-2011



LIMS Report #: 251004

Request Id: 2479682

*West Side
 Larger Room.*

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

*(VOC)
 dup*

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM

Sample Location: *West* EAST SUMP

COC Initiated: No

Sample #: 2014008602
 Sample Type: Water, Non-filtered

Date Collected: 3/13/2014 10:30
 Date Received: 3/13/2014 16:31
 Date Reported: 4/3/2014
 Temp at Receipt (deg C): 5.3

Sample Note:

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 16:51	Result	Units	SDL	Analyst Initials	Data Qualifier
71-43-2		Benzene	µg/L	0.11	NRH	U
108-86-1		Bromobenzene	µg/L	0.07	NRH	U
74-97-5		Bromochloromethane	µg/L	0.15	NRH	U
75-27-4		Bromodichloromethane	µg/L	0.09	NRH	U
75-25-2		Bromoform	µg/L	0.11	NRH	U
74-83-9		Bromomethane	µg/L	3.80	NRH	U, D
78-93-3		2-Butanone (MEK)	µg/L	0.59	NRH	U
104-51-8		n-Butylbenzene	µg/L	0.30	NRH	U
135-98-8		sec-Butylbenzene	µg/L	0.14	NRH	U
98-06-6		tert-Butylbenzene	µg/L	0.14	NRH	U
1634-04-4		tert-Butyl Methyi Ether (MTBE)	µg/L	0.09	NRH	U
56-23-5		Carbon Tetrachloride	µg/L	0.12	NRH	U
108-90-7		Chlorobenzene	µg/L	0.11	NRH	U
75-00-3		Chloroethane	µg/L	2.6	NRH	U, D
67-66-3		Chloroform	µg/L	0.08	NRH	U
74-87-3		Chloromethane	µg/L	0.43	NRH	U
95-49-8		2-Chlorotoluene	µg/L	0.11	NRH	U
106-43-4		4-Chlorotoluene	µg/L	0.13	NRH	U
96-12-8		1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.20	NRH	U
124-48-1		Dibromochloromethane	µg/L	0.08	NRH	U

Final

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 16:51	Result	Units	SDL	Analyst initials	Data Qualifier
106-93-4		1,2-Dibromoethane (EDB)	µg/L	0.09	NRH	U
74-95-3		Dibromomethane	µg/L	0.09	NRH	U
95-50-1		1,2-Dichlorobenzene	µg/L	0.09	NRH	U
541-73-1		1,3-Dichlorobenzene	µg/L	0.13	NRH	U
106-46-7		1,4-Dichlorobenzene	µg/L	0.10	NRH	U
75-71-8		Dichlorodifluoromethane	µg/L	0.47	NRH	U
75-34-3		1,1-Dichloroethane	µg/L	0.10	NRH	U
107-06-2		1,2-Dichloroethane	µg/L	0.07	NRH	U
75-35-4		1,1-Dichloroethene	µg/L	0.13	NRH	U
156-59-2		cis-1,2-Dichloroethene	µg/L	0.12	NRH	U
156-60-5		trans-1,2-Dichloroethene	µg/L	0.12	NRH	U
78-87-5		1,2-Dichloropropane	µg/L	0.10	NRH	U
142-28-9		1,3-Dichloropropane	µg/L	0.09	NRH	U
594-20-7		2,2-Dichloropropane	µg/L	0.18	NRH	U
563-58-6		1,1-Dichloropropene	µg/L	0.14	NRH	U
10061-01-5		cis-1,3-Dichloropropene	µg/L	0.10	NRH	U
10061-02-6		trans-1,3-Dichloropropene	µg/L	0.09	NRH	U
100-41-4		Ethylbenzene	µg/L	0.10	NRH	U
87-68-3		Hexachlorobutadiene	µg/L	0.24	NRH	U
98-82-8		Isopropylbenzene	µg/L	0.14	NRH	U
99-87-6		4-Isopropyltoluene	µg/L	0.18	NRH	U
75-09-2		Methylene Chloride	µg/L	0.15	NRH	U
91-20-3		Naphthalene	µg/L	0.20	NRH	U
98-95-3		Nitrobenzene	µg/L	7.0	NRH	U, D
103-65-1		Propylbenzene	µg/L	0.16	NRH	U
100-42-5		Styrene	µg/L	0.12	NRH	U
630-20-6		1,1,1,2-Tetrachloroethane	µg/L	0.08	NRH	U
79-34-5		1,1,2,2-Tetrachloroethane	µg/L	0.13	NRH	U
127-18-4		Tetrachloroethene	0.60 µg/L	0.15	NRH	U
108-88-3		Toluene	µg/L	0.10	NRH	U
87-61-6		1,2,3-Trichlorobenzene	µg/L	0.25	NRH	U
120-82-1		1,2,4-Trichlorobenzene	µg/L	0.24	NRH	U
71-55-6		1,1,1-Trichloroethane	µg/L	0.12	NRH	U
79-00-5		1,1,2-Trichloroethane	µg/L	0.11	NRH	U
79-01-6		Trichloroethene	µg/L	0.15	NRH	U
75-69-4		Trichlorofluoromethane	µg/L	0.20	NRH	U
96-18-4		1,2,3-Trichloropropane	µg/L	0.10	NRH	U
95-63-6		1,2,4-Trimethylbenzene	µg/L	0.15	NRH	U
108-67-8		1,3,5-Trimethylbenzene	µg/L	0.12	NRH	U
75-01-4		Vinyl Chloride	µg/L	0.29	NRH	U
95-47-6		ortho-Xylene	µg/L	0.10	NRH	U
108-38-3 & 106-42-3		para- & meta-Xylenes	µg/L	0.23	NRH	U
		Total Xylenes	µg/L	0.10		U
		Total Trihalomethanes	µg/L	0.08		U
		Dibromofluoromethane (Surrogate)	9.8 µg/L		% Recovery 98.5 NRH	QC range % 80 - 120
		1,2-Dichloroethane-d4 (Surrogate)	10.6 µg/L		% Recovery 105.8 NRH	QC range % 80 - 120

Sample #: 2014008602

Print Date: 4/3/2014

CAS#	Analysis Date: 03/25/2014 16:51	Result	Units	SDL	Analyst Initials	Data Qualifier
		Toluene-d8 (Surrogate)	10.3	µg/L	% Recovery 103.1	NRH QC range % 80 - 120
		4-Bromofluorobenzene (Surrogate)	9.8	µg/L	% Recovery 97.5	NRH QC range % 80 - 120

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

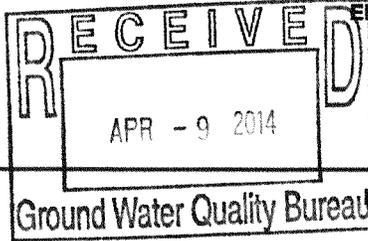
- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

Data Qualifier Codes

- | | |
|--|---|
| <ul style="list-style-type: none"> A - See note/comments. B - Analyte was detected in the laboratory blank. C - Spike recovery is within method acceptance limits. D - Spike recovery is not within method acceptance limits. E - Analyte value exceeded calibration range. F - Sample matrix interference suspected. H - Sample was analyzed in duplicate. I - Sample was analyzed in triplicate. J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. K - Holding time was exceeded at laboratory. | <ul style="list-style-type: none"> L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level. M - Regulated parameter value equals or exceeds the EPA SDWA Action Level. N - Insufficient sample to verify results. O - Method internal standard(s) not within method acceptance limits when analyzed undiluted. P - Sample rejected/voided at laboratory. Q - Sample submitted to laboratory past holding time. S - Relative percent difference between duplicates greater than 10% (waters). T - Relative percent difference between duplicates greater than 30% (soils). U - Analyte was not detected in this sample above the method's sample detection limit. |
|--|---|

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000

EPA: 141001-2011



LIMS Report #: 251006

Request Id: 2478198

TRIP BLANK

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
 Sample Location: EAST SUMP/WEST SUMP TB
 COC Initiated: No

Sample #: 2014008604
 Sample Type: Water, Non-filtered

Date Collected: 3/13/2014 10:00
 Date Received: 3/13/2014 16:31
 Date Reported: 4/3/2014
 Temp at Receipt (deg C): 7.0

Sample Note:

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 20:15	Result	Units	SDL	Analyst Initials	Data Qualifier
71-43-2		Benzene	µg/L	0.11	NRH	U
108-86-1		Bromobenzene	µg/L	0.07	NRH	U
74-97-5		Bromochloromethane	µg/L	0.15	NRH	U
75-27-4		Bromodichloromethane	µg/L	0.09	NRH	U
75-25-2		Bromoform	µg/L	0.11	NRH	U
74-83-9		Bromomethane	µg/L	3.80	NRH	U, D
78-93-3		2-Butanone (MEK)	µg/L	0.59	NRH	U
104-51-8		n-Butylbenzene	µg/L	0.30	NRH	U
135-98-8		sec-Butylbenzene	µg/L	0.14	NRH	U
98-06-6		tert-Butylbenzene	µg/L	0.14	NRH	U
1634-04-4		tert-Butyl Methyl Ether (MTBE)	µg/L	0.09	NRH	U
56-23-5		Carbon Tetrachloride	µg/L	0.12	NRH	U
108-90-7		Chlorobenzene	µg/L	0.11	NRH	U
75-00-3		Chloroethane	µg/L	2.6	NRH	U, D
67-66-3		Chloroform	µg/L	0.08	NRH	U
74-87-3		Chloromethane	µg/L	0.43	NRH	U
95-49-8		2-Chlorotoluene	µg/L	0.11	NRH	U
106-43-4		4-Chlorotoluene	µg/L	0.13	NRH	U
96-12-8		1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.20	NRH	U
124-48-1		Dibromochloromethane	µg/L	0.08	NRH	U

Sample #: 2014008604

EPA 8260B SW846 Mass Spec VOCs

pH in lab: 2

CAS#	Analysis Date: 03/25/2014 20:15	Result	Units	SDL	Analyst Initials	Data Qualifier
106-93-4		1,2-Dibromoethane (EDB)	µg/L	0.09	NRH	U
74-95-3		Dibromomethane	µg/L	0.09	NRH	U
95-50-1		1,2-Dichlorobenzene	µg/L	0.09	NRH	U
541-73-1		1,3-Dichlorobenzene	µg/L	0.13	NRH	U
106-46-7		1,4-Dichlorobenzene	µg/L	0.10	NRH	U
75-71-8		Dichlorodifluoromethane	µg/L	0.47	NRH	U
75-34-3		1,1-Dichloroethane	µg/L	0.10	NRH	U
107-06-2		1,2-Dichloroethane	µg/L	0.07	NRH	U
75-35-4		1,1-Dichloroethene	µg/L	0.13	NRH	U
156-59-2		cis-1,2-Dichloroethene	µg/L	0.12	NRH	U
156-60-5		trans-1,2-Dichloroethene	µg/L	0.12	NRH	U
78-87-5		1,2-Dichloropropane	µg/L	0.10	NRH	U
142-28-9		1,3-Dichloropropane	µg/L	0.09	NRH	U
594-20-7		2,2-Dichloropropane	µg/L	0.18	NRH	U
563-58-6		1,1-Dichloropropene	µg/L	0.14	NRH	U
10061-01-5		cis-1,3-Dichloropropene	µg/L	0.10	NRH	U
10061-02-6		trans-1,3-Dichloropropene	µg/L	0.09	NRH	U
100-41-4		Ethylbenzene	µg/L	0.10	NRH	U
87-68-3		Hexachlorobutadiene	µg/L	0.24	NRH	U
98-82-8		Isopropylbenzene	µg/L	0.14	NRH	U
99-87-6		4-Isopropyltoluene	µg/L	0.18	NRH	U
75-09-2		Methylene Chloride	µg/L	0.15	NRH	U
91-20-3		Naphthalene	µg/L	0.20	NRH	U
98-95-3		Nitrobenzene	µg/L	7.0	NRH	U, D
103-65-1		Propylbenzene	µg/L	0.16	NRH	U
100-42-5		Styrene	µg/L	0.12	NRH	U
630-20-6		1,1,1,2-Tetrachloroethane	µg/L	0.08	NRH	U
79-34-5		1,1,2,2-Tetrachloroethane	µg/L	0.13	NRH	U
127-18-4		Tetrachloroethene	µg/L	0.15	NRH	U
108-88-3		Toluene	µg/L	0.10	NRH	U
87-61-6		1,2,3-Trichlorobenzene	µg/L	0.25	NRH	U
120-82-1		1,2,4-Trichlorobenzene	µg/L	0.24	NRH	U
71-55-6		1,1,1-Trichloroethane	µg/L	0.12	NRH	U
79-00-5		1,1,2-Trichloroethane	µg/L	0.11	NRH	U
79-01-6		Trichloroethene	µg/L	0.15	NRH	U
75-69-4		Trichlorofluoromethane	µg/L	0.20	NRH	U
96-18-4		1,2,3-Trichloropropane	µg/L	0.10	NRH	U
95-63-6		1,2,4-Trimethylbenzene	µg/L	0.15	NRH	U
108-67-8		1,3,5-Trimethylbenzene	µg/L	0.12	NRH	U
75-01-4		Vinyl Chloride	µg/L	0.29	NRH	U
95-47-6		ortho-Xylene	µg/L	0.10	NRH	U
108-38-3 & 106-42-3		para- & meta-Xylenes	µg/L	0.23	NRH	U
		Total Xylenes	µg/L	0.10		U
		Total Trihalomethanes	µg/L	0.08		U
				% Recovery		QC range %
		Dibromofluoromethane (Surrogate)	10.4 µg/L	103.5	NRH	80 - 120
				% Recovery		QC range %
		1,2-Dichloroethane-d4 (Surrogate)	10.7 µg/L	106.6	NRH	80 - 120

Sample #: 2014008604

Print Date: 4/3/2014

CAS#	Analysis Date: 03/25/2014 20:15	Result	Units	SDL	Analyst initials	Data Qualifier
		Toluene-d8 (Surrogate)	9.9	µg/L	% Recovery 99.4	NRH 80 - 120
		4-Bromofluorobenzene (Surrogate)	10.0	µg/L	% Recovery 99.7	NRH 80 - 120

<p>Definitions</p> <p>MRL - Minimum Reporting Limit (lowest concentration that can be reported).</p> <p>MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..</p> <p>MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.</p> <p>SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).</p>	
<p>Units</p> <p>mg/L - milligrams of analyte in a liter of water.</p> <p>µg/L - micrograms of analyte in a liter of water.</p> <p>mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.</p> <p>µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.</p> <p>ppbv - parts per billion by volume air.</p>	
<p>Data Qualifier Codes</p> <p>A - See note/comments.</p> <p>B - Analyte was detected in the laboratory blank.</p> <p>C - Spike recovery is within method acceptance limits.</p> <p>D - Spike recovery is not within method acceptance limits.</p> <p>E - Analyte value exceeded calibration range.</p> <p>F - Sample matrix interference suspected.</p> <p>H - Sample was analyzed in duplicate.</p> <p>I - Sample was analyzed in triplicate.</p> <p>J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.</p> <p>K - Holding time was exceeded at laboratory.</p>	<p>L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.</p> <p>M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.</p> <p>N - insufficient sample to verify results.</p> <p>O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.</p> <p>P - Sample rejected/voided at laboratory.</p> <p>Q - Sample submitted to laboratory past holding time.</p> <p>S - Relative percent difference between duplicates greater than 10% (waters).</p> <p>T - Relative percent difference between duplicates greater than 30% (soils).</p> <p>U - Analyte was not detected in this sample above the method's sample detection limit.</p>



NEW MEXICO
ENVIRONMENT DEPARTMENT



SUSANA MARTINEZ
Governor

JOHN A. SANCHEZ
Lieutenant Governor

Harold Runnels Building
1190 South St. Francis Drive (87505)
P.O. Box 5469, Santa Fe, NM 87502-5469
Phone (505) 827-0187 Fax (505) 827-0160
www.nmenv.state.nm.us

RYAN FLYNN
Cabinet Secretary

BUTCH TONGATE
Deputy Secretary

Certified Mail - Return Receipt Requested

May 15, 2014

Veronica Gonzales, Secretary
c/o Lisa Vornholt, Facilities Manager
State of New Mexico, Department of Cultural Affairs
407 Galisteo, Suite 260
Santa Fe, NM 87501

Re: New Mexico History Museum; Unpermitted Discharge; SIC 8412; NPDES Compliance Evaluation Inspection; NPDES Tracking No. NMU001873; February 21, 2014 – Additional Information SVOCs

Dear Secretary Gonzales:

Enclosed please find a copy of laboratory reports for water samples collected from the east and west sumps of the New Mexico History Museum. The semi-volatile organic compound (SVOC) samples were collected and submitted for analysis by the NMED Groundwater Quality Bureau (GWQB) on March 13, 2014.

As annotated on previous laboratory reports, the sample location identification (east and west sumps) had been switched on documentation. SVOC analysis results for both sumps' samples were not detected at the method sample detection limit using EPA Solid Waste (SW) Method 846 8270D.

If you have any questions, please contact Erin S. Trujillo of the Point Source Regulation Section (PSRS) staff at 505-827-0418.

Sincerely,

/s/Bruce J. Yurdin

Bruce J. Yurdin
Program Manager
Point Source Regulation Section
Surface Water Quality Bureau

cc: -Rashida Bowlin, USEPA (6EN-AS) by e-mail
-Carol Peters-Wagnon, USEPA (6EN) by e-mail
-Racquel Douglas, USEPA (6EN) by e-mail
-Brent Larsen, USEPA (6WQ-PP) by e-mail
-Everett Spencer, USEPA (6EN) by e-mail
-Gladys Gooden-Jackson, USEPA (6EN) e-mail
-Justin D. Ball, P.G., NMED GWQB e-mail
-Robert Italiano, NMED District II by e-mail
-David Catanach, P.E., City of Santa Fe by e-mail
-Alex Puglisi, City of Santa Fe by e-mail

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000

EPA: 141001-2011



LIMS Report #: 254864

Request Id:

2479683

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5489
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
 Sample Location: EAST SUMP
 COC Initiated: No

Sample #: 2014008605

Date Collected: 3/13/2014 10:35

Sample Type: Water, Non-filtered

Date Received: 3/13/2014 16:31

Date Reported: 4/29/2014

Temp at Receipt (deg C): 5.0

Sample Note:

EPA 8270D SW846 Base/Neutral/Acid Semi-volatiles

pH In lab: 7

Extraction Date: 3/17/2014 09:10:00

CAS#	Analysis Date: 03/29/2014 00:16	Result	Units	SDL	Analyst initials	Data Qualifier
83-32-9	Acenaphthene		µg/L	0.32	KMC	U
208-96-8	Acenaphthylene		µg/L	0.52	KMC	U
62-53-3	Aniline		µg/L	0.34	KMC	U
120-12-7	Anthracene		µg/L	1.62	KMC	U
103-33-3	Azobenzene		µg/L	0.34	KMC	U
92-87-5	Benzidine		µg/L	0.78	KMC	U
56-55-3	Benzo(a)anthracene		µg/L	0.36	KMC	U
205-99-2	Benzo(b)fluoranthene		µg/L	1.62	KMC	U
207-08-9	Benzo(k)fluoranthene		µg/L	0.77	KMC	U
191-24-2	Benzo(g,h,i)perylene		µg/L	0.84	KMC	U
50-32-8	Benzo(a)pyrene		µg/L	0.48	KMC	U
111-91-1	bis(2-Chloroethoxy)methane		µg/L	0.28	KMC	U
111-44-4	bis(2-Chloroethyl)ether		µg/L	0.63	KMC	U
108-60-1	bis(2-Chloroisopropyl)ether		µg/L	0.43	KMC	U
103-23-1	bis(2-Ethylhexyl)adipate		µg/L	0.85	KMC	U
117-81-7	bis(2-Ethylhexyl)phthalate		µg/L	0.35	KMC	U
101-55-3	4-Bromophenyl Phenyl Ether		µg/L	0.32	KMC	U
85-68-7	Butylbenzyl Phthalate		µg/L	0.37	KMC	U
86-74-8	Carbazole		µg/L	0.29	KMC	U
106-47-8	4-Chloroaniline		µg/L	0.26	KMC	U



EPA 8270D SW846 Base/Neutral/Acid Semi-volatiles

pH in lab: 7

Extraction Date: 3/17/2014 09:10:00

CAS#	Analysis Date: 03/29/2014 00:16	Result	Units	SDL	Analyst Initials	Data Qualifier
91-58-7	2-Chloronaphthalene		µg/L	0.41	KMC	U
7005-72-3	4-Chlorophenyl Phenyl Ether		µg/L	0.41	KMC	U
218-01-9	Chrysene		µg/L	1.12	KMC	U
53-70-3	Dibenz(a,h)anthracene		µg/L	1.22	KMC	U
132-64-9	Dibenzofuran		µg/L	0.65	KMC	U
84-74-2	Di-n-butyl Phthalate		µg/L	0.32	KMC	U
95-50-1	1,2-Dichlorobenzene		µg/L	0.58	KMC	U
541-73-1	1,3-Dichlorobenzene		µg/L	0.28	KMC	U
106-46-7	1,4-Dichlorobenzene		µg/L	0.43	KMC	U
91-94-1	3,3'-Dichlorobenzidine		µg/L	0.82	KMC	U
84-66-2	Diethylphthalate		µg/L	0.55	KMC	U
131-11-3	Dimethylphthalate		µg/L	0.43	KMC	U
528-29-0	1,2-Dinitrobenzene		µg/L	0.62	KMC	U
99-65-0	1,3-Dinitrobenzene		µg/L	0.07	KMC	U
100-25-4	1,4-Dinitrobenzene		µg/L	0.56	KMC	U
121-14-2	2,4-Dinitrotoluene		µg/L	0.47	KMC	U
606-20-2	2,6-Dinitrotoluene		µg/L	0.40	KMC	U
117-84-0	Di-n-octyl phthalate		µg/L	1.1	KMC	U
206-44-0	Fluoranthene		µg/L	0.16	KMC	U
86-73-7	Fluorene		µg/L	0.45	KMC	U
118-74-1	Hexachlorobenzene		µg/L	0.23	KMC	U
87-88-3	Hexachlorobutadiene		µg/L	0.28	KMC	U
77-47-4	Hexachlorocyclopentadiene		µg/L	0.45	KMC	U
67-72-1	Hexachloroethane		µg/L	1.62	KMC	U
193-39-5	Indeno(1,2,3-cd)pyrene		µg/L	0.93	KMC	U
78-59-1	Isophorone		µg/L	0.24	KMC	U
90-12-0	1-Methylnaphthalene		µg/L	0.32	KMC	U
91-57-6	2-Methylnaphthalene		µg/L	0.22	KMC	U
91-20-3	Naphthalene		µg/L	0.25	KMC	U
88-74-4	2-Nitroaniline		µg/L	0.44	KMC	U
99-09-2	3-Nitroaniline		µg/L	0.57	KMC	U
100-01-6	4-Nitroaniline		µg/L	0.44	KMC	U
98-95-3	Nitrobenzene		µg/L	0.31	KMC	U
62-75-9	N-nitrosodimethylamine		µg/L	0.81	KMC	U, D
86-30-6	N-nitrosodiphenylamine		µg/L	0.32	KMC	U
621-64-7	N-nitroso-di-n-propylamine		µg/L	0.59	KMC	U
85-01-8	Phenanthrene		µg/L	0.45	KMC	U
129-00-0	Pyrene		µg/L	0.26	KMC	U
110-86-1	Pyridine		µg/L	1.62	KMC	U, D
120-82-1	1,2,4-Trichlorobenzene		µg/L	0.28	KMC	U
				% Recovery		QC range %
	Nitrobenzene-d5 (Surrogate)	16.0	µg/L	79.1	KMC	20 - 98
				% Recovery		QC range %
	2-Fluorobiphenyl (Surrogate)	16.0	µg/L	61.5	KMC	23 - 98
				% Recovery		QC range %
	Terphenyl-d14 (Surrogate)	19.0	µg/L	95.1	KMC	41 - 121

Final

Sample #: 2014008605

Note: Data Review: M. Trujillo

Definitions

- MRL** - Minimum Reporting Limit (lowest concentration that can be reported).
- MDL** - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..
- MCL** - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.
- SDL** - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

- mg/L** - milligrams of analyte in a liter of water.
- µg/L** - micrograms of analyte in a liter of water.
- mg/kg** - milligrams of analyte in a kilogram of soil, sediment, or solid.
- µg/kg** - micrograms of analyte in a kilogram of soil, sediment, or solid.
- ppbv** - parts per billion by volume air.

Data Qualifier Codes

- | | |
|---|---|
| <ul style="list-style-type: none">A - See note/comments.B - Analyte was detected in the laboratory blank.C - Spike recovery is within method acceptance limits.D - Spike recovery is not within method acceptance limits.E - Analyte value exceeded calibration range.F - Sample matrix interference suspected.H - Sample was analyzed in duplicate.I - Sample was analyzed in triplicate.J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.K - Holding time was exceeded at laboratory. | <ul style="list-style-type: none">L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.N - Insufficient sample to verify results.O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.P - Sample rejected/voided at laboratory.Q - Sample submitted to laboratory past holding time.S - Relative percent difference between duplicates greater than 10% (waters).T - Relative percent difference between duplicates greater than 30% (soils).U - Analyte was not detected in this sample above the method's sample detection limit. |
|---|---|

Final

Scientific Laboratory Division
 1101 Camino de Salud, N.E.
 Albuquerque, NM 87102
 (505) 383-9000

EPA: 141001-2011



LIMS Report #: 254865

Request Id: 2479685

Submitter: NMED - Ground Water Quality Bureau
 HEATHER LUTZ
 1190 St. Francis Drive
 P.O. Box 5469
 Santa Fe, NM 87502

Submitter Code: 418
 Collector: HEATHER LUTZ
 User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: NM HISTORY MUSEUM
 Sample Location: WEST SUMP
 COC Initiated: No

Sample #: 2014008606
 Sample Type: Water, Non-filtered

Date Collected: 3/13/2014 10:43
 Date Received: 3/13/2014 16:31
 Date Reported: 4/29/2014
 Temp at Receipt (deg C): 4.6

Sample Note:

EPA 8270D SW846 Base/Neutral/Acid Semi-volatiles

pH in lab: 7

Extraction Date: 3/17/2014 09:10:00

CAS# Analysis Date: 03/29/2014 01:03

CAS#	Analysis Date: 03/29/2014 01:03	Result	Units	SDL	Analyst Initials	Data Qualifier
83-32-9	Acenaphthene		µg/L	0.33	KMC	U
208-96-8	Acenaphthylene		µg/L	0.53	KMC	U
62-53-3	Aniline		µg/L	0.34	KMC	U
120-12-7	Anthracene		µg/L	1.65	KMC	U
103-33-3	Azobenzene		µg/L	0.34	KMC	U
92-87-5	Benzidine		µg/L	0.79	KMC	U
56-55-3	Benzo(a)anthracene		µg/L	0.36	KMC	U
205-99-2	Benzo(b)fluoranthene		µg/L	1.65	KMC	U
207-08-9	Benzo(k)fluoranthene		µg/L	0.78	KMC	U
191-24-2	Benzo(g,h,i)perylene		µg/L	0.86	KMC	U
50-32-8	Benzo(a)pyrene		µg/L	0.48	KMC	U
111-91-1	bis(2-Chloroethoxy)methane		µg/L	0.29	KMC	U
111-44-4	bis(2-Chloroethyl)ether		µg/L	0.64	KMC	U
108-60-1	bis(2-Chloroisopropyl)ether		µg/L	0.43	KMC	U
103-23-1	bis(2-Ethylhexyl)adipate		µg/L	0.87	KMC	U
117-81-7	bis(2-Ethylhexyl)phthalate		µg/L	0.35	KMC	U
101-55-3	4-Bromophenyl Phenyl Ether		µg/L	0.33	KMC	U
85-68-7	Butylbenzyl Phthalate		µg/L	0.37	KMC	U
86-74-8	Carbazole		µg/L	0.30	KMC	U
106-47-8	4-Chloroaniline		µg/L	0.27	KMC	U



CAS#	Analysis Date: 03/29/2014 01:03	Result	Units	SDL	Analyst Initials	Data Qualifier
91-58-7	2-Chloronaphthalene		µg/L	0.41	KMC	U
7005-72-3	4-Chlorophenyl Phenyl Ether		µg/L	0.41	KMC	U
218-01-9	Chrysene		µg/L	1.13	KMC	U
53-70-3	Dibenz(a,h)anthracene		µg/L	1.24	KMC	U
132-64-9	Dibenzofuran		µg/L	0.66	KMC	U
84-74-2	Di-n-butyl Phthalate		µg/L	0.33	KMC	U
95-50-1	1,2-Dichlorobenzene		µg/L	0.59	KMC	U
541-73-1	1,3-Dichlorobenzene		µg/L	0.29	KMC	U
106-46-7	1,4-Dichlorobenzene		µg/L	0.43	KMC	U
91-94-1	3,3'-Dichlorobenzidine		µg/L	0.84	KMC	U
84-66-2	Diethylphthalate		µg/L	0.56	KMC	U
131-11-3	Dimethylphthalate		µg/L	0.43	KMC	U
528-29-0	1,2-Dinitrobenzene		µg/L	0.63	KMC	U
99-65-0	1,3-Dinitrobenzene		µg/L	0.07	KMC	U
100-25-4	1,4-Dinitrobenzene		µg/L	0.57	KMC	U
121-14-2	2,4-Dinitrotoluene		µg/L	0.47	KMC	U
606-20-2	2,6-Dinitrotoluene		µg/L	0.40	KMC	U
117-84-0	Di-n-octyl phthalate		µg/L	1.1	KMC	U
206-44-0	Fluoranthene		µg/L	0.16	KMC	U
86-73-7	Fluorene		µg/L	0.45	KMC	U
118-74-1	Hexachlorobenzene		µg/L	0.24	KMC	U
87-68-3	Hexachlorobutadiene		µg/L	0.29	KMC	U
77-47-4	Hexachlorocyclopentadiene		µg/L	0.45	KMC	U
67-72-1	Hexachloroethane		µg/L	1.65	KMC	U
193-39-5	Indeno(1,2,3-cd)pyrene		µg/L	0.95	KMC	U
78-59-1	Isophorone		µg/L	0.25	KMC	U
90-12-0	1-Methylnaphthalene		µg/L	0.33	KMC	U
91-57-6	2-Methylnaphthalene		µg/L	0.23	KMC	U
91-20-3	Naphthalene		µg/L	0.26	KMC	U
88-74-4	2-Nitroaniline		µg/L	0.44	KMC	U
99-09-2	3-Nitroaniline		µg/L	0.58	KMC	U
100-01-6	4-Nitroaniline		µg/L	0.44	KMC	U
98-95-3	Nitrobenzene		µg/L	0.32	KMC	U
62-75-9	N-nitrosodimethylamine		µg/L	0.82	KMC	U, D
86-30-6	N-nitrosodiphenylamine		µg/L	0.33	KMC	U
621-64-7	N-nitroso-di-n-propylamine		µg/L	0.60	KMC	U
85-01-8	Phenanthrene		µg/L	0.45	KMC	U
129-00-0	Pyrene		µg/L	0.27	KMC	U
110-86-1	Pyridine		µg/L	1.65	KMC	U, D
120-82-1	1,2,4-Trichlorobenzene		µg/L	0.29	KMC	U
				% Recovery		QC range %
	Nitrobenzene-d5 (Surrogate)	13.0	µg/L	65.3	KMC	20 - 98
				% Recovery		QC range %
	2-Fluorobiphenyl (Surrogate)	14.0	µg/L	70.5	KMC	23 - 98
				% Recovery		QC range %
	Terphenyl-d14 (Surrogate)	17.0	µg/L	85.0	KMC	41 - 121



Note: The following compounds were tentatively identified by GCMS (Library Match of Mass Spectrum)

CAS	Tentatively Identified Compound Name	Percent Match	Approximate Conc.
79-34-5	1,1,2,2-Tetrachloroethane	88.2%	1 ug/L

Approximate Conc. is the estimated amount of the compound present in the sample. Actual concentration may vary from this reported value.

Percent Match is the percent agreement of the best match spectral match found from among 140,000 compounds cataloged in the NIST mass spectral library.

CAS is the Chemical Abstract Services number used to uniquely identify the compound.

Data Review: M. Trujillo

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory.

Q - Sample submitted to laboratory past holding time.

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Final