3R-1009

"Good Well Investigaton"

Land Owner Water Well Results/Letters

Date 2012-2013

(664)

Done
11-10-15 KC

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
HSE Governance & Performance
420 South Keeler AVE
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

RCVD AUG 22 '12
OIL CONS. DIV.
DIST. 3

Ms. Mary Jo Albin
3921 Highland View Drive
Farmington, NM 87402

August 17, 2012

Re: Water Well Sample Analytical Results

Dear Ms. Albin:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on May 22, 2012, from the water well on your property located on Road 4049, in San Juan County, New Mexico. Summary tables are included along with the actual laboratory reports. The summary table for water results depicts New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your well for both the May 2012 sampling event and the prior December 2011 sampling event. Note that the only exceedances of established NMWQCC standards are for total dissolved solids and sulfate. This is typical of water wells in the region.

As you know, ConocoPhillips initially contacted you late last year, seeking permission to sample your well in response to methane and hydrogen sulfide found in another water well in the vicinity. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the source for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that methane was detected at a concentration of 3,160 micrograms per liter (ug/L) or 3.16 milligrams per liter (mg/L) in a water sample from your well during the May 2012 sampling. This is similar to the 1,940 ug/l (1.94 mg/L) of methane that was measured in a water sample from your well in December 2011.

ConocoPhillips consulted a groundwater expert on characterization of the methane found in the water sample from your well. Upon scrutiny of various chemical isotopes, helium concentration, mole ratios, and gas wetness, the expert concluded that the methane does not bear any resemblance to the commercially produced methane in the area which is sourced from the Mesaverde and Fruitland Coal Formations.

Methane is quite common in water wells in the San Juan Basin due largely to the presence of coal seams. To help explain the presence of methane in water wells, I have enclosed as a courtesy a copy of a publication entitled "How Well Do You Know Your Water Well?" This document was prepared in cooperation with three regulatory agencies in Colorado. The discussion on methane in groundwater begins on Page 19.

Since methane was detected in a sample from your well during both the December 2011 and May 2012 sampling events, ConocoPhillips would like to collect one more round of samples to confirm that the concentration is stable. A ConocoPhillips representative will contact you in the near future to seek your concurrence and schedule a sampling date.

The results of the May 2012 sampling event for your water well have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03259 - ALBIN

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03259	DW-074922-120111-CM-29	12/01/2011	1940	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	3.1	< 1.0	164	414,000	9,590	5,340	684,000	184	**2,620**	< 0.50	< 1.0	5.6	**2,240**
	GW-074922-052212-CM03259-2	05/22/2012	3,160	NA	< 0.53	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	4.0	< 1.0	152	396,000	9,780	5,180	688,000	180	**3,710**	< 0.050	< 1.0	5.6	**2,610**
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03259	DW-074922-120111-CM-29	12/01/2011	-114.2	-14.84
	GW-074922-052212-CM-03259-2	05/22/2012	-112.9	-14.77

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen Chemical mol. %	Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity
								Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰										
03259	A-074922-120211-CM-29	12/01/2011	--	--	0.935	20.86	78.04	07.075	--	--	0.0916	--	--	0.0006	--	--	--	--	--	--	--	--	--	--	1	1.000
	A-074922-052212-CM-03259-2	05/22/2012	0.0016	--	0.980	21.75	77.05	0.085	--	--	0.133	--	--	0.0008	--	--	--	--	--	--	--	--	--	--	1	1.001

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03259	A-074922-120211-CM-29	12/01/2011	< 0.20	< 10
	A-074922-052212-CM-03259-2	05/22/2012	< 0.43	< 0.0022

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03259 - ALBIN

AIR TO-15 RESULTS		
Well ID→	03259	
Sample ID→	A-074922-120211-CM-29	A-074922-052212-CM03259-2
Date→	12/01/2011	05/22/2012
Constituents ↓	Results in ug/m3	
Acetone	< 77.2	61.4
Benzene	< 52.3	4.3
Bromodichloromethane	< 225	< 7.2
Bromomethane	< 127	< 4.1
2-Butanone	1,780	1,470
Carbon disulfide	< 101	11.2
Carbon tetrachloride	< 103	< 6.7
Chloroethane	< 86.8	4.1
Chloroform	3,710	3,080
Chloromethane	< 67.5	6.0
Cyclohexane	< 109	4.5
Dichlorodifluoromethane	< 161	< 5.3
1,4-Dichlorobenzene	< 193	< 6.4
1,2 - Dichloroethane	< 65.9	6.6
1,1 - Dichloroethene	< 130	< 4.2
cis - 1,2 - Dichloroethene	< 130	< 4.2
trans - 1,2 - Dichloroethene	< 130	< 4.2
trans - 1,3 - Dichloropropene	< 148	< 4.9
Dichlorotetrafluorethane	< 225	< 7.5
Ethanol	< 306	17.4
Ethylbenzene	< 142	< 4.6
4 -Ethyltoluene	< 402	< 5.2
n-Heptane	< 133	< 4.4
Hexachloro-1,3-butadiene	< 354	< 11.4
n-Hexane	< 116	< 3.8
Methylene Chloride	< 114	< 3.7
4-methyl-2-pentanone	< 133	11.4
Naphthalene	< 434	< 5.6
2-propanol	< 402	6.2
Styrene	< 140	< 4.5
1,1,2,2-Tetrachloroethane	< 112	< 7.3
Tetrahydrofuran	6,180	1,410
Toluene	9,380	6,280
1,2,4-Trichlorobenzene	< 159	< 7.9
1,1,2-Trichloroethane	< 88.4	< 5.8
Trichloroethene	< 88.4	< 5.7
Trichlorofluoromethane	< 177	< 6.0
1,1,2-Trichlorotrifluoroethane	< 257	< 8.2
1,2,4-Trimethylbenzene	< 161	< 5.2
1,3,5-Trimethylbenzene	< 161	< 5.2
Vinyl Chloride	< 41.8	< 2.7
THC as Gas	13,300	21,000
Xylenes	< 425	15.3

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume

Sample ID
A-074922-052212-CM-03259-2
GW-074922-052212-CM-03259-2

Resident
Dwayne Albin

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July 19, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: Project 3 Area 6
Pace Project No.: 60125294

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between May 25, 2012 and May 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: Project 3 Area 6
Pace Project No.: 60125294

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: Project 3 Area 6
Pace Project No.: 60125294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122079002	A-074922-052212-CM-03259-2	Air	05/22/12 16:10	05/25/12 09:08
60122079014	GW-074922-052212-CM-03259-2	Water	05/22/12 15:50	05/26/12 10:00
60122228002	A-074922-052212-CM-03259-2	Air	05/22/12 16:10	05/25/12 10:01

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SAMPLE ANALYTE COUNT

Project: Project 3 Area 6
Pace Project No.: 60125294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122079014	**GW-074922-052212-CM-03259-2**	RSK 175	SK4	1	PASI-M
		EPA 8015B	SDR	3	PASI-K
		EPA 6010	JGP, SMW	5	PASI-K
		EPA 5030B/8260	JDM	70	PASI-K
		SM 2320B	AJM	2	PASI-K
		SM 2540C	DJR	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	OL	3	PASI-K
60122228002	**A-074922-052212-CM-03259-2**	TO-15	DR1	61	PASI-M

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: AIR/14993

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1208052)
  - Methane
- MSD (Lab ID: 1208053)
  - Methane

R1: RPD value was outside control limits.

- MSD (Lab ID: 1208053)
  - Methane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

Analyte Comments:

QC Batch: AIR/14993

1e: 107.02 TIMES SPIKE AMOUNT.
- MS (Lab ID: 1208052)
  - Methane

2e: 299.26 TIMES SPIKE AMOUNT
- MSD (Lab ID: 1208053)
  - Methane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MSD (Lab ID: 1208053)
  - Methane

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/15342

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- A-074922-052212-CM-03259-2 (Lab ID: 60122228002)
  - Carbon disulfide
  - Ethanol
- LCS (Lab ID: 1243211)
  - Carbon disulfide
  - Ethanol

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/15342

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1243211)
  - Hexachloro-1,3-butadiene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/15342

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1243211)
  - Hexachloro-1,3-butadiene

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/15342

A3: The sample was analyzed by serial dilution.

- A-074922-052212-CM-03259-2 (Lab ID: 60122228002)
  - 2-Butanone (MEK)
  - Chloroform
  - Tetrahydrofuran
  - Toluene

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/12529

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18210

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1006348)
  - Sodium, Dissolved
- MSD (Lab ID: 1006349)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/45992

B: Analyte was detected in the associated method blank.

- GW-074922-052212-CM-03259-2 (Lab ID: 60122079014)
  - Chloroform

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/35295

B: Analyte was detected in the associated method blank.
- GW-074922-052212-CM-03259-2 (Lab ID: 60122079014)
  - Alkalinity,Bicarbonate (CaCO3)
  - Alkalinity, Total as CaCO3

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PROJECT NARRATIVE

Project:. Project 3 Area 6
Pace Project No.: 60125294

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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(913)599-5665

PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 3 Area 6
Pace Project No.: 60125294

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Project 3 Area 6
Pace Project No.: 60125294

Sample: GW-074922-052212-CM-03259-2 **Lab ID: 60122079014** Collected: 05/22/12 15:50 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**3160**	ug/L	6.6	0.69	1		05/29/12 18:08	74-82-8	
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.53	0.10	1	05/29/12 00:00	06/05/12 00:22		
Surrogates									
p-Terphenyl (S)	63	%	40-118		1	05/29/12 00:00	06/05/12 00:22	92-94-4	
n-Tetracosane (S)	71	%	36-120		1	05/29/12 00:00	06/05/12 00:22	646-31-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**152**	ug/L	100	1.8	1	05/31/12 15:50	06/06/12 13:37	7440-42-8	
Calcium, Dissolved	**396000**	ug/L	100	35.8	1	05/31/12 15:50	06/06/12 13:37	7440-70-2	
Magnesium, Dissolved	**9780**	ug/L	50.0	17.2	1	05/31/12 15:50	06/06/12 13:37	7439-95-4	
Potassium, Dissolved	**5180**	ug/L	500	64.1	1	05/31/12 15:50	06/06/12 13:37	7440-09-7	
Sodium, Dissolved	**688000**	ug/L	10000	802	20	05/31/12 15:50	06/07/12 12:04	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	2.2	1		06/03/12 16:47	67-64-1	
Benzene	ND	ug/L	1.0	0.070	1		06/03/12 16:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.064	1		06/03/12 16:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.10	1		06/03/12 16:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		06/03/12 16:47	75-27-4	
Bromoform	ND	ug/L	1.0	0.15	1		06/03/12 16:47	75-25-2	
Bromomethane	ND	ug/L	1.0	0.22	1		06/03/12 16:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.41	1		06/03/12 16:47	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.078	1		06/03/12 16:47	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.047	1		06/03/12 16:47	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.066	1		06/03/12 16:47	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.053	1		06/03/12 16:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.23	1		06/03/12 16:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.093	1		06/03/12 16:47	108-90-7	
Chloroethane	ND	ug/L	1.0	0.19	1		06/03/12 16:47	75-00-3	
Chloroform	**4.0**	ug/L	1.0	0.087	1		06/03/12 16:47	67-66-3	B
Chloromethane	ND	ug/L	1.0	0.24	1		06/03/12 16:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.19	1		06/03/12 16:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		06/03/12 16:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.66	1		06/03/12 16:47	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.091	1		06/03/12 16:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.13	1		06/03/12 16:47	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.12	1		06/03/12 16:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.077	1		06/03/12 16:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.068	1		06/03/12 16:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.072	1		06/03/12 16:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.15	1		06/03/12 16:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.079	1		06/03/12 16:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.080	1		06/03/12 16:47	107-06-2	

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ANALYTICAL RESULTS

Project: Project 3 Area 6
Pace Project No.: 60125294

Sample: GW-074922-052212-CM-03259-2 **Lab ID: 60122079014** Collected: 05/22/12 15:50 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		06/03/12 16:47	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		06/03/12 16:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.086	1		06/03/12 16:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.085	1		06/03/12 16:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.045	1		06/03/12 16:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.097	1		06/03/12 16:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.11	1		06/03/12 16:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.088	1		06/03/12 16:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.066	1		06/03/12 16:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.080	1		06/03/12 16:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.078	1		06/03/12 16:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.11	1		06/03/12 16:47	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.50	1		06/03/12 16:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.069	1		06/03/12 16:47	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.065	1		06/03/12 16:47	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.12	1		06/03/12 16:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.33	1		06/03/12 16:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.077	1		06/03/12 16:47	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.14	1		06/03/12 16:47	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.071	1		06/03/12 16:47	103-65-1	
Styrene	ND	ug/L	1.0	0.080	1		06/03/12 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		06/03/12 16:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		06/03/12 16:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.073	1		06/03/12 16:47	127-18-4	
Toluene	ND	ug/L	1.0	0.064	1		06/03/12 16:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		06/03/12 16:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		06/03/12 16:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.13	1		06/03/12 16:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		06/03/12 16:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.064	1		06/03/12 16:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.064	1		06/03/12 16:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.36	1		06/03/12 16:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.060	1		06/03/12 16:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.094	1		06/03/12 16:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.068	1		06/03/12 16:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		06/03/12 16:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	87-113		1		06/03/12 16:47	460-00-4	
Dibromofluoromethane (S)	99	%	86-112		1		06/03/12 16:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119		1		06/03/12 16:47	17060-07-0	
Toluene-d8 (S)	98	%	90-110		1		06/03/12 16:47	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/03/12 16:47		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**180**	mg/L	20.0	3.8	1		05/31/12 10:45		B

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ANALYTICAL RESULTS

Project: Project 3 Area 6
Pace Project No.: 60125294

Sample: GW-074922-052212-CM-03259-2 **Lab ID: 60122079014** Collected: 05/22/12 15:50 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**180**	mg/L	20.0	3.8	1		05/31/12 10:45		B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3710**	mg/L	5.0	5.0	1		05/29/12 09:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		05/29/12 16:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.059	1		06/07/12 23:37	24959-67-9	
Chloride	**5.6**	mg/L	1.0	0.056	1		06/07/12 23:37	16887-00-6	
Sulfate	**2610**	mg/L	500	75.0	500		06/08/12 13:32	14808-79-8	M6

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ANALYTICAL RESULTS

Project: Project 3 Area 6
Pace Project No.: 60125294

Sample: A-074922-052212-CM-03259-2 **Lab ID: 60122228002** Collected: 05/22/12 16:10 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
Acetone	**61.4**	ug/m3	2.5	1.3	2.1		06/01/12 19:31	67-64-1	
Benzene	**4.3**	ug/m3	3.4	1.7	2.1		06/01/12 19:31	71-43-2	
Benzyl chloride	ND	ug/m3	5.5	2.8	2.1		06/01/12 19:31	100-44-7	
Bromodichloromethane	ND	ug/m3	7.2	3.6	2.1		06/01/12 19:31	75-27-4	
Bromoform	ND	ug/m3	11.0	5.5	2.1		06/01/12 19:31	75-25-2	
Bromomethane	ND	ug/m3	4.1	2.1	2.1		06/01/12 19:31	74-83-9	
1,3-Butadiene	ND	ug/m3	2.4	1.2	2.1		06/01/12 19:31	106-99-0	
2-Butanone (MEK)	**1470**	ug/m3	252	126	168		06/04/12 17:01	78-93-3	A3
Carbon disulfide	**11.2**	ug/m3	3.3	1.7	2.1		06/01/12 19:31	75-15-0	SS
Carbon tetrachloride	ND	ug/m3	6.7	3.4	2.1		06/01/12 19:31	56-23-5	
Chlorobenzene	ND	ug/m3	4.9	2.5	2.1		06/01/12 19:31	108-90-7	
Chloroethane	**4.1**	ug/m3	2.8	1.4	2.1		06/01/12 19:31	75-00-3	
Chloroform	**3080**	ug/m3	417	208	168		06/04/12 17:01	67-66-3	A3
Chloromethane	**6.0**	ug/m3	2.2	1.1	2.1		06/01/12 19:31	74-87-3	
Cyclohexane	**4.5**	ug/m3	3.7	1.8	2.1		06/01/12 19:31	110-82-7	
Dibromochloromethane	ND	ug/m3	9.1	4.5	2.1		06/01/12 19:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	8.2	4.1	2.1		06/01/12 19:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/01/12 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/01/12 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/01/12 19:31	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	5.3	2.6	2.1		06/01/12 19:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4.3	2.2	2.1		06/01/12 19:31	75-34-3	
1,2-Dichloroethane	**6.6**	ug/m3	4.3	2.2	2.1		06/01/12 19:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4.2	2.1	2.1		06/01/12 19:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4.2	2.1	2.1		06/01/12 19:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4.2	2.1	2.1		06/01/12 19:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.9	2.5	2.1		06/01/12 19:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.9	2.4	2.1		06/01/12 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.9	2.4	2.1		06/01/12 19:31	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	7.5	3.7	2.1		06/01/12 19:31	76-14-2	
Ethanol	**17.4**	ug/m3	2.0	1.0	2.1		06/01/12 19:31	64-17-5	SS
Ethyl acetate	ND	ug/m3	3.8	1.9	2.1		06/01/12 19:31	141-78-6	
Ethylbenzene	ND	ug/m3	4.6	2.3	2.1		06/01/12 19:31	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:31	622-96-8	
n-Heptane	ND	ug/m3	4.4	2.2	2.1		06/01/12 19:31	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	11.4	5.7	2.1		06/01/12 19:31	87-68-3	
n-Hexane	ND	ug/m3	3.8	1.9	2.1		06/01/12 19:31	110-54-3	
2-Hexanone	ND	ug/m3	4.4	2.2	2.1		06/01/12 19:31	591-78-6	
Methylene Chloride	ND	ug/m3	3.7	1.9	2.1		06/01/12 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**11.4**	ug/m3	4.4	2.2	2.1		06/01/12 19:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.7	3.8	2.1		06/01/12 19:31	1634-04-4	
Naphthalene	ND	ug/m3	5.6	2.8	2.1		06/01/12 19:31	91-20-3	
2-Propanol	**6.2**	ug/m3	2.6	1.3	2.1		06/01/12 19:31	67-63-0	
Propylene	ND	ug/m3	7.4	3.7	2.1		06/01/12 19:31	115-07-1	
Styrene	ND	ug/m3	4.5	2.3	2.1		06/01/12 19:31	100-42-5	

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ANALYTICAL RESULTS

Project: Project 3 Area 6
Pace Project No.: 60125294

Sample: A-074922-052212-CM-03259-2 **Lab ID: 60122228002** Collected: 05/22/12 16:10 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.3	3.7	2.1		06/01/12 19:31	79-34-5	
Tetrachloroethene	ND	ug/m3	7.2	3.6	2.1		06/01/12 19:31	127-18-4	
Tetrahydrofuran	**1410**	ug/m3	252	126	168		06/04/12 17:01	109-99-9	A3
Toluene	**6280**	ug/m3	323	161	168		06/04/12 17:01	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	7.9	4.0	2.1		06/01/12 19:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.8	2.9	2.1		06/01/12 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	5.8	2.9	2.1		06/01/12 19:31	79-00-5	
Trichloroethene	ND	ug/m3	5.7	2.9	2.1		06/01/12 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	6.0	3.0	2.1		06/01/12 19:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	8.2	4.1	2.1		06/01/12 19:31	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:31	108-67-8	
Vinyl acetate	ND	ug/m3	3.8	1.9	2.1		06/01/12 19:31	108-05-4	
Vinyl chloride	ND	ug/m3	2.7	1.4	2.1		06/01/12 19:31	75-01-4	
m&p-Xylene	**15.3**	ug/m3	9.3	4.6	2.1		06/01/12 19:31	179601-23-1	
o-Xylene	ND	ug/m3	4.6	2.3	2.1		06/01/12 19:31	95-47-6	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: AIR/14993
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60122079014

METHOD BLANK: 1206739 Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	6.6	05/29/12 14:36	

LABORATORY CONTROL SAMPLE & LCSD: 1206740 1206741

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	56.9	57.6	94	95	70-130	1	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208052 1208053

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	10100	60.7	57.8	6490	17300	-5900	12500	30-150	91	30	1e,2e, E,M0, R1

SAMPLE DUPLICATE: 1208051

Parameter	Units	4060818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	9.0	9.6	6	30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: AIR/15342
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR - AMBIENT
Associated Lab Samples: 60122228002

METHOD BLANK: 1243210
Matrix: Air
Associated Lab Samples: 60122228002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	2.8	06/01/12 11:46	
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.5	06/01/12 11:46	
1,1,2-Trichloroethane	ug/m3	ND	2.8	06/01/12 11:46	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	3.9	06/01/12 11:46	
1,1-Dichloroethane	ug/m3	ND	2.1	06/01/12 11:46	
1,1-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	06/01/12 11:46	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	06/01/12 11:46	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/01/12 11:46	
1,2-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
1,2-Dichloroethane	ug/m3	ND	2.1	06/01/12 11:46	
1,2-Dichloropropane	ug/m3	ND	2.4	06/01/12 11:46	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	06/01/12 11:46	
1,3-Butadiene	ug/m3	ND	1.1	06/01/12 11:46	
1,3-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
1,4-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
2-Butanone (MEK)	ug/m3	ND	1.5	06/01/12 11:46	
2-Hexanone	ug/m3	ND	2.1	06/01/12 11:46	
2-Propanol	ug/m3	ND	1.2	06/01/12 11:46	
4-Ethyltoluene	ug/m3	ND	2.5	06/01/12 11:46	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	06/01/12 11:46	
Acetone	ug/m3	ND	1.2	06/01/12 11:46	
Benzene	ug/m3	ND	1.6	06/01/12 11:46	
Benzyl chloride	ug/m3	ND	2.6	06/01/12 11:46	
Bromodichloromethane	ug/m3	ND	3.4	06/01/12 11:46	
Bromoform	ug/m3	ND	5.2	06/01/12 11:46	
Bromomethane	ug/m3	ND	2.0	06/01/12 11:46	
Carbon disulfide	ug/m3	ND	1.6	06/01/12 11:46	
Carbon tetrachloride	ug/m3	ND	3.2	06/01/12 11:46	
Chlorobenzene	ug/m3	ND	2.3	06/01/12 11:46	
Chloroethane	ug/m3	ND	1.3	06/01/12 11:46	
Chloroform	ug/m3	ND	2.5	06/01/12 11:46	
Chloromethane	ug/m3	ND	1.0	06/01/12 11:46	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/01/12 11:46	
Cyclohexane	ug/m3	ND	1.8	06/01/12 11:46	
Dibromochloromethane	ug/m3	ND	4.3	06/01/12 11:46	
Dichlorodifluoromethane	ug/m3	ND	2.5	06/01/12 11:46	
Dichlorotetrafluoroethane	ug/m3	ND	3.6	06/01/12 11:46	
Ethanol	ug/m3	ND	0.96	06/01/12 11:46	
Ethyl acetate	ug/m3	ND	1.8	06/01/12 11:46	
Ethylbenzene	ug/m3	ND	2.2	06/01/12 11:46	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	06/01/12 11:46	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

METHOD BLANK: 1243210 Matrix: Air

Associated Lab Samples: 60122228002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	4.4	06/01/12 11:46	
Methyl-tert-butyl ether	ug/m3	ND	3.7	06/01/12 11:46	
Methylene Chloride	ug/m3	ND	1.8	06/01/12 11:46	
n-Heptane	ug/m3	ND	2.1	06/01/12 11:46	
n-Hexane	ug/m3	ND	1.8	06/01/12 11:46	
Naphthalene	ug/m3	ND	2.7	06/01/12 11:46	
o-Xylene	ug/m3	ND	2.2	06/01/12 11:46	
Propylene	ug/m3	ND	3.5	06/01/12 11:46	
Styrene	ug/m3	ND	2.2	06/01/12 11:46	
Tetrachloroethene	ug/m3	ND	3.4	06/01/12 11:46	
Tetrahydrofuran	ug/m3	ND	1.5	06/01/12 11:46	
Toluene	ug/m3	ND	1.9	06/01/12 11:46	
trans-1,2-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/01/12 11:46	
Trichloroethene	ug/m3	ND	2.7	06/01/12 11:46	
Trichlorofluoromethane	ug/m3	ND	2.9	06/01/12 11:46	
Vinyl acetate	ug/m3	ND	1.8	06/01/12 11:46	
Vinyl chloride	ug/m3	ND	1.3	06/01/12 11:46	

LABORATORY CONTROL SAMPLE: 1243211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.3	114	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.0	109	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	59.4	107	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	77.7	100	65-132	
1,1-Dichloroethane	ug/m3	41.2	44.6	108	67-132	
1,1-Dichloroethene	ug/m3	40.3	46.1	114	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	102	135	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	59.1	118	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	85.9	110	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	68.7	112	71-132	
1,2-Dichloroethane	ug/m3	41.2	48.8	119	70-131	
1,2-Dichloropropane	ug/m3	47	47.6	101	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	56.6	113	70-133	
1,3-Butadiene	ug/m3	22.5	22.0	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	70.2	115	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	67.9	111	72-131	
2-Butanone (MEK)	ug/m3	30	29.3	98	69-131	
2-Hexanone	ug/m3	41.7	41.9	100	71-134	
2-Propanol	ug/m3	25	21.7	87	72-132	
4-Ethyltoluene	ug/m3	50	56.8	114	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	41.4	99	69-135	
Acetone	ug/m3	24.2	20.3	84	61-139	
Benzene	ug/m3	32.5	35.2	108	69-134	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

LABORATORY CONTROL SAMPLE: 1243211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	56.2	107	70-129	
Bromodichloromethane	ug/m3	68.2	81.7	120	71-130	
Bromoform	ug/m3	105	120	114	70-130	
Bromomethane	ug/m3	39.5	41.4	105	69-125	
Carbon disulfide	ug/m3	31.7	33.8	107	66-131	SS
Carbon tetrachloride	ug/m3	64	70.3	110	68-128	
Chlorobenzene	ug/m3	46.8	54.5	116	75-128	
Chloroethane	ug/m3	26.8	27.8	104	66-131	
Chloroform	ug/m3	49.7	54.9	111	68-132	
Chloromethane	ug/m3	21	21.0	100	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	41.2	102	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	49.9	108	74-134	
Cyclohexane	ug/m3	35	34.9	100	67-136	
Dibromochloromethane	ug/m3	86.6	88.6	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	54.5	108	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	73.5	103	66-130	
Ethanol	ug/m3	19.2	17.9	93	69-131	SS
Ethyl acetate	ug/m3	36.6	36.3	99	71-131	
Ethylbenzene	ug/m3	44.2	51.9	118	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	188	173	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	92.1	104	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	39.7	108	70-132	
Methylene Chloride	ug/m3	35.3	34.6	98	73-134	
n-Heptane	ug/m3	41.7	40.5	97	70-134	
n-Hexane	ug/m3	35.8	35.2	98	65-133	
Naphthalene	ug/m3	53.3	72.2	135	57-150	
o-Xylene	ug/m3	44.2	51.6	117	69-138	
Propylene	ug/m3	17.5	16.9	97	70-134	
Styrene	ug/m3	43.3	47.8	110	72-132	
Tetrachloroethene	ug/m3	69	77.4	112	70-130	
Tetrahydrofuran	ug/m3	30	28.5	95	74-128	
Toluene	ug/m3	38.3	42.9	112	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	42.7	106	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	47.6	103	73-130	
Trichloroethene	ug/m3	54.6	58.3	107	72-131	
Trichlorofluoromethane	ug/m3	57.1	58.8	103	66-129	
Vinyl acetate	ug/m3	35.8	35.1	98	71-131	
Vinyl chloride	ug/m3	26	26.4	102	70-131	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: MPRP/18210
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60122079014

METHOD BLANK: 1006346 Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/06/12 13:08	
Calcium, Dissolved	ug/L	ND	100	06/06/12 13:08	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 13:08	
Potassium, Dissolved	ug/L	ND	500	06/06/12 13:08	
Sodium, Dissolved	ug/L	ND	500	06/06/12 13:08	

LABORATORY CONTROL SAMPLE: 1006347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	949	95	80-120	
Calcium, Dissolved	ug/L	10000	9260	93	80-120	
Magnesium, Dissolved	ug/L	10000	9950	99	80-120	
Potassium, Dissolved	ug/L	10000	9960	100	80-120	
Sodium, Dissolved	ug/L	10000	9670	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006348 1006349

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	119	1000	1000	1070	1090	95	97	75-125	2	20	
Calcium, Dissolved	ug/L	193000	10000	10000	201000	205000	76	120	75-125	2	20	
Magnesium, Dissolved	ug/L	11300	10000	10000	20700	21000	94	97	75-125	1	20	
Potassium, Dissolved	ug/L	2890	10000	10000	13000	13200	101	103	75-125	2	20	
Sodium, Dissolved	ug/L	306000	10000	10000	291000	296000	-154	-106	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: MSV/45992
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122079014

METHOD BLANK: 1007054
Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/03/12 15:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/03/12 15:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,3-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
2,2-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
2-Butanone (MEK)	ug/L	ND	10.0	06/03/12 15:27	
2-Chlorotoluene	ug/L	ND	1.0	06/03/12 15:27	
2-Hexanone	ug/L	ND	10.0	06/03/12 15:27	
4-Chlorotoluene	ug/L	ND	1.0	06/03/12 15:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/03/12 15:27	
Acetone	ug/L	ND	10.0	06/03/12 15:27	
Benzene	ug/L	ND	1.0	06/03/12 15:27	
Bromobenzene	ug/L	ND	1.0	06/03/12 15:27	
Bromochloromethane	ug/L	ND	1.0	06/03/12 15:27	
Bromodichloromethane	ug/L	ND	1.0	06/03/12 15:27	
Bromoform	ug/L	ND	1.0	06/03/12 15:27	
Bromomethane	ug/L	ND	1.0	06/03/12 15:27	
Carbon disulfide	ug/L	ND	5.0	06/03/12 15:27	
Carbon tetrachloride	ug/L	ND	1.0	06/03/12 15:27	
Chlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
Chloroethane	ug/L	ND	1.0	06/03/12 15:27	
Chloroform	ug/L	ND	1.0	06/03/12 15:27	
Chloromethane	ug/L	ND	1.0	06/03/12 15:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
Dibromochloromethane	ug/L	ND	1.0	06/03/12 15:27	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

METHOD BLANK: 1007054 Matrix: Water

Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	06/03/12 15:27	
Dichlorodifluoromethane	ug/L	ND	1.0	06/03/12 15:27	
Ethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/03/12 15:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/03/12 15:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/03/12 15:27	
Methylene chloride	ug/L	ND	1.0	06/03/12 15:27	
n-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
n-Propylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Naphthalene	ug/L	ND	10.0	06/03/12 15:27	
p-Isopropyltoluene	ug/L	ND	1.0	06/03/12 15:27	
sec-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Styrene	ug/L	ND	1.0	06/03/12 15:27	
tert-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Tetrachloroethene	ug/L	ND	1.0	06/03/12 15:27	
Toluene	ug/L	ND	1.0	06/03/12 15:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
Trichloroethene	ug/L	ND	1.0	06/03/12 15:27	
Trichlorofluoromethane	ug/L	ND	1.0	06/03/12 15:27	
Vinyl chloride	ug/L	ND	1.0	06/03/12 15:27	
Xylene (Total)	ug/L	ND	3.0	06/03/12 15:27	
1,2-Dichloroethane-d4 (S)	%	101	82-119	06/03/12 15:27	
4-Bromofluorobenzene (S)	%	103	87-113	06/03/12 15:27	
Dibromofluoromethane (S)	%	99	86-112	06/03/12 15:27	
Toluene-d8 (S)	%	99	90-110	06/03/12 15:27	

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	106	81-121	
1,1,1-Trichloroethane	ug/L	20	20.3	102	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	78-124	
1,1,2-Trichloroethane	ug/L	20	22.3	112	79-121	
1,1-Dichloroethane	ug/L	20	19.4	97	73-119	
1,1-Dichloroethene	ug/L	20	18.4	92	75-120	
1,1-Dichloropropene	ug/L	20	20.7	103	79-123	
1,2,3-Trichlorobenzene	ug/L	20	23.5	118	73-122	
1,2,3-Trichloropropane	ug/L	20	23.0	115	77-124	
1,2,4-Trichlorobenzene	ug/L	20	22.6	113	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.9	104	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.9	109	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	22.3	112	85-121	
1,2-Dichlorobenzene	ug/L	20	21.4	107	82-115	
1,2-Dichloroethane	ug/L	20	21.9	110	77-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.0	97	79-120	
1,2-Dichloropropane	ug/L	20	21.2	106	83-119	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	79-121	
1,3-Dichlorobenzene	ug/L	20	20.8	104	79-117	
1,3-Dichloropropane	ug/L	20	21.7	108	78-116	
1,4-Dichlorobenzene	ug/L	20	21.3	106	83-115	
2,2-Dichloropropane	ug/L	20	22.2	111	66-123	
2-Butanone (MEK)	ug/L	100	111	111	43-165	
2-Chlorotoluene	ug/L	20	20.7	103	81-117	
2-Hexanone	ug/L	100	110	110	47-159	
4-Chlorotoluene	ug/L	20	20.6	103	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	71-129	
Acetone	ug/L	100	105	105	18-192	
Benzene	ug/L	20	20.2	101	82-117	
Bromobenzene	ug/L	20	20.9	105	83-116	
Bromochloromethane	ug/L	20	20.7	104	79-121	
Bromodichloromethane	ug/L	20	20.2	101	79-114	
Bromoform	ug/L	20	20.9	104	78-121	
Bromomethane	ug/L	20	17.9	89	36-146	
Carbon disulfide	ug/L	20	17.5	88	75-138	
Carbon tetrachloride	ug/L	20	20.0	100	80-123	
Chlorobenzene	ug/L	20	21.0	105	83-121	
Chloroethane	ug/L	20	19.4	97	42-166	
Chloroform	ug/L	20	21.2	106	82-116	
Chloromethane	ug/L	20	18.8	94	32-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-119	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	76-119	
Dibromochloromethane	ug/L	20	21.0	105	81-123	
Dibromomethane	ug/L	20	23.3	117	79-123	
Dichlorodifluoromethane	ug/L	20	16.8	84	10-163	
Ethylbenzene	ug/L	20	20.5	103	79-121	
Hexachloro-1,3-butadiene	ug/L	20	20.5	102	78-125	
Isopropylbenzene (Cumene)	ug/L	20	21.9	109	80-120	
Methyl-tert-butyl ether	ug/L	20	19.3	97	78-119	
Methylene chloride	ug/L	20	18.9	94	75-118	
n-Butylbenzene	ug/L	20	21.2	106	80-126	
n-Propylbenzene	ug/L	20	21.5	107	83-116	
Naphthalene	ug/L	20	22.9	114	66-133	
p-Isopropyltoluene	ug/L	20	20.9	105	77-120	
sec-Butylbenzene	ug/L	20	20.8	104	81-120	
Styrene	ug/L	20	21.2	106	84-115	
tert-Butylbenzene	ug/L	20	20.7	103	80-117	
Tetrachloroethene	ug/L	20	19.8	99	80-124	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	79-120	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	76-118	
Trichloroethene	ug/L	20	19.8	99	76-122	
Trichlorofluoromethane	ug/L	20	19.4	97	72-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	19.3	97	57-163	
Xylene (Total)	ug/L	60	64.5	108	75-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007056 1007057

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.1	103	106	56-124	3	26	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.4	21.9	102	110	57-128	7	27	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	20.9	114	105	48-137	8	26	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.1	22.8	116	114	57-136	2	25	
1,1-Dichloroethane	ug/L	ND	20	20	20.3	20.9	101	105	55-130	3	27	
1,1-Dichloroethene	ug/L	ND	20	20	18.8	20.1	94	101	46-146	7	25	
1,1-Dichloropropene	ug/L	ND	20	20	19.6	21.4	98	107	57-137	9	27	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.6	21.3	103	107	41-136	3	22	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	20.4	108	102	56-136	5	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	21.0	99	105	32-140	6	26	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.3	20.4	97	102	42-133	5	23	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.5	21.0	112	105	36-167	7	29	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.5	20.5	107	102	45-155	5	21	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	20.4	102	102	54-125	0	19	
1,2-Dichloroethane	ug/L	ND	20	20	22.2	21.4	111	107	44-145	4	22	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	38.6	39.6	96	99	46-144	2	26	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	20.9	102	105	60-124	3	26	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	20.6	98	103	38-143	5	27	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	20.3	99	102	53-123	2	24	
1,3-Dichloropropane	ug/L	ND	20	20	21.9	21.7	109	108	61-130	1	27	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	20.1	99	100	53-121	1	25	
2,2-Dichloropropane	ug/L	ND	20	20	6.6	7.1	33	36	21-146	7	25	
2-Butanone (MEK)	ug/L	26.9	100	100	129	128	102	102	29-131	0	27	
2-Chlorotoluene	ug/L	ND	20	20	19.9	20.4	100	102	54-131	2	21	
2-Hexanone	ug/L	ND	100	100	103	104	103	104	41-137	1	24	
4-Chlorotoluene	ug/L	ND	20	20	20.1	20.6	100	103	56-130	2	22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	104	105	104	38-139	1	25	
Acetone	ug/L	ND	100	100	116	124	116	124	30-147	7	30	
Benzene	ug/L	ND	20	20	20.3	21.0	101	105	58-139	3	21	
Bromobenzene	ug/L	ND	20	20	20.1	20.3	101	102	57-123	1	21	
Bromochloromethane	ug/L	ND	20	20	20.2	20.8	101	104	56-127	3	24	
Bromodichloromethane	ug/L	ND	20	20	19.8	20.2	99	101	56-125	2	26	
Bromoform	ug/L	ND	20	20	20.1	20.4	101	102	41-132	2	21	
Bromomethane	ug/L	ND	20	20	13.2	14.9	66	75	11-162	12	30	
Carbon disulfide	ug/L	ND	20	20	16.8	18.1	84	90	28-155	7	25	
Carbon tetrachloride	ug/L	ND	20	20	19.4	21.5	97	108	54-138	10	23	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007056 1007057

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	20.0	21.0	100	105	56-129	5	21	
Chloroethane	ug/L	ND	20	20	17.8	18.2	89	91	42-178	2	33	
Chloroform	ug/L	ND	20	20	21.1	21.5	105	107	55-130	2	23	
Chloromethane	ug/L	ND	20	20	15.8	16.3	79	81	39-141	3	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	20.7	101	104	34-152	3	26	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.0	17.1	85	85	49-128	1	23	
Dibromochloromethane	ug/L	ND	20	20	20.8	20.8	104	104	57-119	0	21	
Dibromomethane	ug/L	ND	20	20	22.0	22.0	110	110	58-123	0	26	
Dichlorodifluoromethane	ug/L	ND	20	20	11.4	12.8	57	64	13-152	12	33	
Ethylbenzene	ug/L	ND	20	20	19.0	20.4	95	102	56-138	7	19	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.9	19.3	84	96	34-141	13	27	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.6	96	103	49-120	7	19	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	19.5	98	98	35-140	0	20	
Methylene chloride	ug/L	ND	20	20	19.0	19.4	95	97	44-133	2	27	
n-Butylbenzene	ug/L	ND	20	20	17.6	19.3	88	96	44-138	9	27	
n-Propylbenzene	ug/L	ND	20	20	19.9	21.8	100	109	46-136	9	22	
Naphthalene	ug/L	ND	20	20	22.5	22.3	113	112	26-159	1	34	
p-Isopropyltoluene	ug/L	ND	20	20	18.7	20.0	93	100	47-129	7	23	
sec-Butylbenzene	ug/L	ND	20	20	18.7	20.8	94	104	51-138	10	23	
Styrene	ug/L	ND	20	20	19.8	20.7	99	103	31-162	5	26	
tert-Butylbenzene	ug/L	ND	20	20	19.1	21.0	95	105	54-135	10	22	
Tetrachloroethene	ug/L	ND	20	20	19.1	20.4	95	102	47-140	7	24	
Toluene	ug/L	ND	20	20	19.6	20.1	98	101	59-140	3	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.4	18.8	92	94	62-130	2	25	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.1	17.0	85	85	41-111	0	20	
Trichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	37-148	4	25	
Trichlorofluoromethane	ug/L	ND	20	20	18.3	20.4	92	102	53-138	11	30	
Vinyl chloride	ug/L	ND	20	20	16.8	17.9	84	89	47-133	6	32	
Xylene (Total)	ug/L	ND	60	60	60.3	64.1	100	107	52-146	6	19	
1,2-Dichloroethane-d4 (S)	%						104	103	82-119			
4-Bromofluorobenzene (S)	%						102	99	87-113			
Dibromofluoromethane (S)	%						104	101	86-112			
Toluene-d8 (S)	%						100	100	90-110			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: OEXT/33332
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60122079014

METHOD BLANK: 1005185
Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	06/04/12 22:19	
n-Tetracosane (S)	%	78	36-120	06/04/12 22:19	
p-Terphenyl (S)	%	78	40-118	06/04/12 22:19	

LABORATORY CONTROL SAMPLE: 1005186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	82	48-119	
n-Tetracosane (S)	%			67	36-120	
p-Terphenyl (S)	%			73	40-118	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: WET/35295 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60122079014

METHOD BLANK: 1006241 Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	05/31/12 10:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	05/31/12 10:45	

LABORATORY CONTROL SAMPLE: 1006242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 1006243

Parameter	Units	60121940001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	44.0	44.0	0	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	36.0	36.0	0	9	

SAMPLE DUPLICATE: 1006244

Parameter	Units	60122079010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	222	226	2	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	222	226	2	9	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: WET/35248
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122079014

METHOD BLANK: 1005167
Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/29/12 09:56	

SAMPLE DUPLICATE: 1005168

Parameter	Units	60122063004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2440	3	17	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: WET/35258 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60122079014

METHOD BLANK: 1005278 Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/29/12 16:10	

LABORATORY CONTROL SAMPLE: 1005279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 1005280

Parameter	Units	60122079010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.56	111	75-125	

SAMPLE DUPLICATE: 1005281

Parameter	Units	60122079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

QC Batch: WETA/20466
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60122079014

METHOD BLANK: 1010005 Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	06/07/12 17:12	
Chloride	mg/L	ND	1.0	06/07/12 17:12	
Sulfate	mg/L	ND	1.0	06/07/12 17:12	

METHOD BLANK: 1010613 Matrix: Water
Associated Lab Samples: 60122079014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/08/12 09:41	
Sulfate	mg/L	ND	1.0	06/08/12 09:41	

LABORATORY CONTROL SAMPLE: 1010006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.1	102	90-110	
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1010614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1010007 1010008

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.0	4.8	100	97	75-119	3	10	
Chloride	mg/L	8.1	5	5	12.3	12.4	85	87	64-118	1	12	
Sulfate	mg/L	1080	1000	1000	2070	2060	99	98	61-119	0	10	

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QUALITY CONTROL DATA

Project: Project 3 Area 6
Pace Project No.: 60125294

MATRIX SPIKE SAMPLE: 1010009

Parameter	Units	60122079014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	5	4.8	88	75-119	
Chloride	mg/L	5.6	5	10	89	64-118	
Sulfate	mg/L	2610	2500	5610	120	61-119	M6

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QUALIFIERS

Project: Project 3 Area 6
Pace Project No.: 60125294

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/33332

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	107.02 TIMES SPIKE AMOUNT.
2e	299.26 TIMES SPIKE AMOUNT
A3	The sample was analyzed by serial dilution.
B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Project 3 Area 6
Pace Project No.: 60125294

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Project 3 Area 6
Pace Project No.: 60125294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122079014	**GW-074922-052212-CM-03259-2**	RSK 175	AIR/14993		
60122228002	**A-074922-052212-CM-03259-2**	TO-15	AIR/15342		
60122079014	**GW-074922-052212-CM-03259-2**	EPA 3510C	OEXT/33332	EPA 8015B	GCSV/12529
60122079014	**GW-074922-052212-CM-03259-2**	EPA 3010	MPRP/18210	EPA 6010	ICP/15298
60122079014	**GW-074922-052212-CM-03259-2**	EPA 5030B/8260	MSV/45992		
60122079014	**GW-074922-052212-CM-03259-2**	SM 2320B	WET/35295		
60122079014	**GW-074922-052212-CM-03259-2**	SM 2540C	WET/35248		
60122079014	**GW-074922-052212-CM-03259-2**	SM 4500-S-2 D	WET/35258		
60122079014	**GW-074922-052212-CM-03259-2**	EPA 300.0	WETA/20466		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 249465 Job Number: 18327

Submitter Sample Name: GW-074922-052212-CM-03259-2

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan County, NM

Depth/Formation:

Container Type: 60ml Bottle

Sample Collected: 5/22/2012 Results Reported: 6/04/2012

δD of water	----------	-112.9 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-14.77 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks:

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 249409 Job #: 18320
Sample Name: A-074922-052212-CM-03259-2 Co. Lab#:
Company: Pace Analytical
Date Sampled: 5/22/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location: San Juan County, NM
Formation/Depth:
Sampling Point:
Date Received: 5/29/2012 Date Reported: 7/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	0.0016			
Hydrogen	nd			
Argon	0.980			
Oxygen	21.75			
Nitrogen	77.05			
Carbon Dioxide	0.085			
Methane	0.133			
Ethane	0.0008			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1
Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**D052505-02**							
Client Sample I.D.:	**60122079002 / A-074922-052212-CM 03259-2**							
Date Sampled:	**05/22/12**							
Date Analyzed:	**06/04/12**							
QC Batch No.:	**120604GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**2.2**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Acetylene	ND	0.0022						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 7-18-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D052505-02							
Client Sample I.D.:	60122079002 / A-074922-052212-CM-03259-2							
Date Sampled:	05/22/12							
Date Analyzed:	05/25/12							
QC Batch No.:	120525GC3A1							
Analyst Initials:	VM							
Dilution Factor:	2.2							
ANALYTE	Result ppmv	RL ppmv						
Hydrogen Sulfide	ND	0.43						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7-18-17
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

CHAIN-OF-CUSTODY / Analytical Request Document

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: 503-377-3920	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Angela Bown, Chris Fetters
Purchase Order No.:	
Project Name:	Area 6
Project Number:	74922

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Tracy
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

produced water = PW

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOC's Full List	6010 Metals Dissolved*	2540 TDS	300.0 Cl, Br, S, bicarbonate	4500 Sulfide	8015 TPH GRO and DRO	RSK175 dissolved methane	TO-15 Full list VOC's/TPH BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074922-052212-CM-03502	WT	G	~~5/22/12~~ 10		5/22/12	1035		10	X		X	X		X	6D	GH	H	X	X	X	X	X	X	2AG1U	2BP3U		60122976 ~~60122079~~ AES 5/29/12
2	GW-074922-052212-CM-DUP	WT	G			5/22/12	1040		10	X		X	X		X				X	X	X	X	X	X				01
3	GW-074922-052212-CM-MS	WT	G			5/22/12	1045		10	X		X	X		X				X	X	X	X	X	X				~~04~~ ~~03~~ BW 5/26
4	GW-074922-052212-CM-MSD	WT	G			5/22/12	1050		10	X		X	X		X				X	X	X	X	X	X				
5	GW-074922-052212-CM-03897PI-1	WT	G			5/22/12	1315		10	X		X	X		X				X	X	X	X	X	X				02
6	GW-074922-052212-CM-02816-2	WT	G			5/22/12	1440		10	X		X	X		X				X	X	X	X	X	X				03
7	GW-074922-052212-CM-03259-2	WT	G			5/22/12	1550		10	X		X	X		X				X	X	X	X	X	X				04
8	PW-074922-052312-CM-202-2	PW	G			5/23/12	0930	-	10	X		X	X		X				X	X	X	X	X	X	1AG1U				05
9	PW-074922-052312-CM-25-2	PW	G			5/23/12	1145		10	X		X	X		X				X	X	X	X	X	X				06
10	GW-074922-052412-CM-03823PI-2	GW	G			5/24/12	0900		10	X		X	X		X				X	X	X	X	X	X	2AG1U				07
11	GW-074922-052412-CM-02992-1	WT	G			5/24/12	1410	-	10	X		X	X		X				X	X	X	X	X	X	1AG1U				08
12	TB-074922-052512-CM-001	WT				5/25/12	1145		3	X		X	X		X						3VG9H			X				09

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*6010 Metals Dissolved; Mg, Ca, B, K, Na	Christine Mathews	5/25/12	1200		5/26/12	1000	1.9
RSK175 and TO15 direct ship to Pace Minnesota							1.9
Direct ship to Airtech (EPA15/15 and ASTMD1946							2.0
Direct ship to Isotech (Isotopes, fixed gases)							2-6

Comments: samples beginning in PW are water from natural gas wells

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 05/25/12

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.1	Y	Y	Y

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

60122196

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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09627 Page: 1 of 1

Section A Required Client Information:
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Email To: kblanchard@craworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Kblanchard@craworld.com
Copy To: cmatheus@craworld.com
Purchase Order No.:
Project Name: Area 6 GW 2AIR
Project Number: 074922

Section C Invoice Information:
Attention:
Company Name: ConocoPhillips ENPOS PO 535628
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: UST Superfund Emissions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other
Location of Sampling by State: NM
Reporting Units: ug/m³ mg/m³ PPBV PPMV Other
Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / END/GRAB DATE	COLLECTED TIME	COMPOSITE - DATE	COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	~~A-074922-052212-CM-0328TIPI-1~~																				
2	A-074922-052212-CM-0286-2	1LC		5/22/12	1500					1169								X			
3	A-074922-052212-CM-03259-2	1LC		5/22/12	1610					2495								X			
4	A-074922-052312-CM-202-2	1LC		5/23/12	1000					2418								X			
5	A-074922-052312-CM-25-2	1LC		5/23/12	1200					2476								X			
6	A-074922-052412-CM-0328PI-2	1LC		5/24/12	0905					2480								X			
7	~~A-074922-052412-CM-03~~																				
8	A-074922-052412-CM-03250(2)-1	1LC		5/24/12	~~935~~	1200				919								X			
9	A-074922-052412-CM-03250-2	1LC		5/24/12	$\dagger$	935				1319								X			
10	A-074922-052412-CM-02992-1	1LC		5/24/12		1515				1314								X			
11	A-074922-052412CM-DUP	1LC		5/24/12		945				2419								X			
12																					

Comments:
Full list VOC's & TPH
- Samples ending in 202-2 & 25-2 are gas samples.

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	5/24/12	1700	[signature]	5.25.12	1001

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kristin Matheus
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 05/24/12

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
amb	(Y/N)	Y/N	(Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

1138

60122196

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SHORT HOLD 5.26.12

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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09628 Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: CRA	Report To: KeblanchardeCrawcrd.com	Attention:
Address: 6121 Indian School Albuquerque, NM 87110	Copy To: cmatheus@craworld.com	Company Name: Conoco Phillips
Email To: KeblanchardeCrawcrd.com	Purchase Order No.:	Address: ENFOS PO 535628
Phone: 505-884-0672 Fax:	Project Name: Area 6 GW & Air	Pace Quote Reference:
Requested Due Date/TAT: standard	Project Number: 074922	Pace Project Manager/Sales Rep. Alice Tracy
		Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NM

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID

Sample IDs MUST BE UNIQUE

PW = produced water

Ground water = GW

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COMPOSITE END DATE	COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	R5K 175 Dissolved Methane	Pace Lab ID
1	GW-074922-052212-CM-03850-2	GW		5/22/12	1035																X	
2	GW-074922-052212-CM-DUP	GW		5/22/12	1040																X	
3	GW-074922-052212-CM-MS	GW		5/22/12	1045																X	
4	GW-074922-052212-CM-MSD	GW		5/22/12	1050																X	
5	GW-074922-052212-CM-03897PI-1	GW		5/22/12	1315																X	
6	GW-074922-052212-CM-02816-2	GW		5/22/12	1440																X	
7	GW-074922-052212-CM-03259-2	GW		5/22/12	1550																X	
8	~~GW-074922~~ PW-074922-052312-CM-202-2	PW		5/23/12	0930																X	
9	PW-074922-052312-CM-25-2	PW		5/23/12	1045																X	
10	GW-074922-052412-CM-03813PI-2	GW		5/24/12	0900																X	
11	GW-074922-052412-CM-02992-1	GW		5/24/12	1410																X	
12																						

Comments: produced water samples items numbered 8 & 9 come from natural gas production wells.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Christine Matheus	5/25/12	1200	FAX	5-26-12	9:15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Matheus

SIGNATURE of SAMPLER: Christine Matheus DATE Signed (MM / DD / YY): 05/25/12

ORIGINAL

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmathews@crawrld.com

Project: 074922- Area 6
Location: San Juan County, NM
Sampled by: CM, JP, HN

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Oxygen Isotopes	Comments
	GW-074922-052212-CM-03250-2	5/22/12	(1) 60mL	
	GW-074922-052202-CM-DUP	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MS	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MSD	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03897PI-1	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03816-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03259-2	5/22/12	(1) 60mL	
Label Smudged	PW-074922-052312-CM-202-2	5/23/12	(1) 60mL	water from natural gas well
	PW-074922-052312-CM-25-2	5/23/12	(1) 60mL	water from natural gas well
	GW-074922-052412-CM-03823PI-2	5/24/12	(1) 60mL	
	GW-074922-052412-CM-02992-1	5/24/12	(1) 60mL	

Chain-of-Custody Record

	Signature		Company	Date	Time
Relinquished by	[signature]	5/25/12@	1200 CRA	5/24/12	1200
Received by	[signature]		Isotech Labs	5/29/12@	1000
Relinquished by					
Received by					
Relinquished by					
Received by					

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 612 Indian School Rd #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMathews@craworld.com

Project: 074922 - Area 6
Location: San Juan County, NM
Sampled by: CM, JP, HN

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Carbon Isotopes	Analyses Requested: Hydrocarbons Fixed gases Spec. Gravity/BTU	Analyses Requested: * If possible, O2, Oxygen & Sulfur Isotopes	Comments
	A-074922-052212-CM-02816-2	5/22/12	X	X	X	* run if possible w/ sample volume
	A-074922-052212-CM-03259-2	5/22/12	X	X	X	
	A-074922-052312-CM-202-2	5/23/12	X	X	X	
	A-074922-052312-CM-25-2	5/23/12	X	X	X	
	A-074922-052412-CM-03823PI-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250(2)-1	5/24/12	X	X	X	
	A-074922-052412-CM-02992-1	5/24/12	X	X	X	
	A-074922-052412-CM-DUP	5/24/12	X	X	X	

Comments: Sample were shipped in 3~~4~~ seperate boxes (3 per box) ~~1 box w/ 1 sample & 2 empties~~) CM 5-24-12

CM 5-24-12

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Christine Mathews	CRA	5/24/12	1700
Received by	Maggie Simmons	ISOTECH	5/25/12	1000
Relinquished by				
Received by				
Relinquished by				
Received by				

60122079

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
Standard [X] 48 hours [ ]
Same Day [ ] 72 hours [ ]
24 hours [ ] 96 hours [ ]
Other:

DELIVERABLES
EDD [X]
EDF [ ]
LEVEL 3 [ ]
LEVEL 4 [ ]

PAGE: 1 **OF** 1

Condition upon receipt:
Sealed Yes [ ] No [ ]
Intact Yes [ ] No [ ]
Chilled _____ deg C

Project No.: 074922
Project Name: Area 6
Report To: Christine Matthews
Company: CRA
Street: 6121 Indian School Rd #200
City/State/Zip: Albuquerque, NM, 87110
Phone& Fax: 505 884-0672
e-mail: cmatthews@craworld.com

BILLING
P.O. No.:
Bill to: PACE Analytical

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	Acetylene ASTM D1946	Hydrogen Sulfide EPA 15/16				
	A-074922-052212-CM-02816-2	5/22/12	1500	AIR	silco	X	X				01
	A-074922-052212-CM-03259-2	5/22/12	1610	AIR	silco	X	X				02
	A-074922-052312-CM-202-2	5/23/12	1000	GAS	silco	X	X				03
	A-074922-052312-CM-85-2	5/23/12	1200	GAS	silco	X	X				04
	A-074922-052412-CM-03823P1-2	5/24/12	0905	AIR	silco	X	X				05
	A-074922-052412-CM-03250(2)-1	5/24/12	1200	AIR	silco	X	X				06
	A-074922-052412-CM-03250-2	5/24/12	0935	AIR	silco	X	X				07
	A-074922-052412-CM-02992-1	5/24/12	1515	AIR	silco	X	X				08
	A-074922-052412-CM-DUP	5/24/12	0945	AIR	silco	X	X				09

AUTHORIZATION TO PERFORM WORK	Christine Matthews COMPANY CRA	DATE/TIME 5/24/12	1700
SAMPLED BY	Christine Matthews COMPANY CRA	DATE/TIME 5/24/12	1700
RELINQUISHED BY	Christine Matthews DATE/TIME 5/24/12 1700	RECEIVED BY FEDEX	DATE/TIME
RELINQUISHED BY FEDEX	DATE/TIME 5/25/12 0908	RECEIVED BY [illegible] DeLaCerda	DATE/TIME 5/25/12 0908
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other _____

COMMENTS
All containers are 1 Liter silco canisters

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

2 of 2

6 0122196 AFT 5/29/12

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA NM

Project # ~~6 0122196~~

4670
4717

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 8896 3832 4691
4706
4728

Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date:
Proj. Name: 6/7

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZIP C

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.9/1.9/2.0/2.6/2.1

Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: PWS-26-12

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9. one Amber broke for 202-2 and 02992-1.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☑Yes ☐No ☐N/A	15. PWS-26-12
Pace Trip Blank lot # (if purchased): 043012.3		
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	16: ~~3 of 3~~ 6 of 6 PW-074922-052312-CM-202-2 DRH
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Parent sample is 03250-2, NO DRO volume for 25-2, fatmat headspace per client 5/29/12 AFT

Project Manager Review: AFT Date: 5/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

60122196

Pace Analytical	Document Name: Air Sample Condition Upon Recpt	Document Revised: 12Apr2012 Page 1 of 1
	Document Number: F-MN-A-106-rev.03	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: CRA-NM/Pace RS Project #:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact ☐ yes ☒ no 05.25

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other

Optional
Proj. Due Date:
Proj. Name:

Temperature (TO17 and TO13 samples only): Temp should be above freezing to 6°C

Tracking #: 4569 1403 6075, 8064

Comments:

Date and Initials of person examining contents: 05.25.12

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10
Media: 10 cans 10 gauges				11.
Sample Labels match COC	☒Yes	☐No	☐N/A	12. 03250(2)-1 sample tag lists time as 12:30 not 1200 1 can has void on sample label
Samples Received:				

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
CM-02816-2	Pace 1169				
11-02759-2	11 2495				
11-202-2	11 2418				
11-25-2	11 2476				
11-03423P1-2	11 2480				
11-03250(2)-1	11 0919				
11-03250-2	11 1319				
11-02992-1	11 1314				
11-CM-Dup	11 2419				
Void	11 2402				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

56

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
HSE Governance & Performance
420 South Keeler AVE
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

RCVD AUG 22 '12
OIL CONS. DIV.
DIST. 3

Ms. Lynn Robbins
2604 NM 511
Navajo Dam, NM 87419

August 17, 2012

Re: Water Well Sample Analytical Results

Dear Ms. Robbins:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on May 24, 2012, from the two water wells on your property located in the vicinity of 2604 NM 511 in San Juan County, New Mexico. Summary tables are included along with the actual laboratory reports. The sample identification numbers match the numbers on file with the New Mexico State Engineer's Office for each well. SJ 03823P1 is the well to the north and SJ 02992 (not in use) is to the south. The summary tables for water results depict New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your wells for both the May 2012 sampling event and the prior December 2011 sampling event (Well 02992 was not sampled in December 2011). Note that Well 03823P1 did not have any exceedances of established NMWQCC standards while Well 02992 exceeded the respective standards for total dissolved solids and sulfate. This is typical of water wells in the region.

As you know, ConocoPhillips initially contacted you late last year, seeking permission to sample your well in response to methane and hydrogen sulfide found in another water well in the vicinity. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the source for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that methane was detected at a very low concentration of 148 micrograms per liter (ug/L) or 0.148 milligrams per liter (mg/L) in a water sample from Well 03823P1 during the May 2012 sampling. Methane was also detected at a similarly low concentration of 567 ug/L (or 0.567 mg/L) in a water sample obtained from Well 02992 during the May 2012 sampling.

ConocoPhillips consulted a groundwater expert on characterization of the methane found in the water samples from your wells. Upon scrutiny of various chemical isotopes, helium concentration, mole ratios, and gas wetness, the expert concluded that the methane does not bear any resemblance to the commercially produced methane in the area which is sourced from the Mesaverde and Fruitland Coal Formations (so-called "thermogenic" – or basically deeper – gas sources). Rather, the gas sample from your well appears to be of "biogenic" origin – that is, its origin is from shallower gas sources, which are not associated with commercially produced methane in the area.

Methane is quite common in water wells in the San Juan Basin due largely to the presence of coal seams. To help explain the presence of methane in water wells, I have enclosed as a courtesy a copy of a publication entitled "How Well Do You Know Your Water Well?" This document was prepared in cooperation with three regulatory agencies in Colorado. The discussion on methane in groundwater begins on Page 19.

Since methane was detected in samples from your wells in May 2012 but not in the sample collected in December 2011, ConocoPhillips would like to collect one more round of samples from both wells to confirm the results of the May 2012 sampling. A ConocoPhillips representative will contact you in the near future to seek your concurrence and schedule a sampling date.

The results of the May 2012 sampling event for your water wells have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03823P1 - ROBINS, LYNN

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03823P1	DW-074922-120111-CM-D3	12/01/2011	< 10.0	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 100	10,600	3,160	1,650	169,000	242	800	< 1.0	< 1.0	5.6	396
	GW-074922-052412-CM-03823P1-2	05/24/2012	148	NA	< 0.59	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 100	94,600	2,990	1,660	167,000	236	796	< 0.050	< 1.0	5.9	403
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03823P1	DW-074922-120111-CM-D3	12/01/2011	-114.6	-14.75
	GW-074922-052412-CM-03823P1-2	05/24/2012	-111.8	-14.65

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen Chemical mol. %	Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
								Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰									
03823P1	A-074922-120211-CM-D3	12/02/2011	--	--	0.946	20.04	78.51	0.50	--	--	0.0031	--	--	0.0003	--	--	0.0002	--	0.0001	0.0002	0.0001	0.0002		0	1.001
	A-074922-052412-CM-03823P1-2	05/24/2012	0.0017	--	0.980	21.78	77.12	0.12	--	--	0.0003	--	--	--	--	--	--	--	--	--	--	--	--	0	1.002

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03823P1	A-074922-120211-CM-D3	12/02/2011	< 0.20	**
	A-074922-052412-CM-03823P1-2	05/24/2012	< 0.41	< 0.0021

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03823P1 - ROBINS, LYNN

AIR TO-15 RESULTS		
Well ID→	03823P1	
Sample ID→	A-074922-120211-CM-D3	A-074922-052412-CM-03823P1-2
Date→	12/02/2011	05/24/2012
Constituents ↓	Results in ug/m3	
Acetone	15.0	201
Benzene	< 0.52	< 3.3
Bromodichloromethane	< 2.3	< 6.9
Bromomethane	< 1.3	< 4.0
2-Butanone	15.0	212
Carbon disulfide	< 1.0	< 3.2
Carbon tetrachloride	< 1.0	< 6.5
Chloroethane	< 0.87	< 2.7
Chloroform	16.8	37.9
Chloromethane	< 0.68	< 2.1
Cyclohexane	8.8	5.1
Dichlorodifluoromethane	1.7	< 5.1
1,4-Dichlorobenzene	< 1.9	< 6.2
1,2 - Dichloroethane	< 0.66	< 4.2
1,1 - Dichloroethene	< 1.3	< 4.1
cis - 1,2 - Dichloroethene	< 1.3	< 4.1
trans - 1,2 - Dichloroethene	< 1.3	< 4.1
trans - 1,3 - Dichloropropene	< 1.5	< 4.7
Dichlorotetrafluorethane	< 2.3	< 7.2
Ethanol	< 3.1	30.3
Ethylbenzene	< 1.4	< 4.5
4 -Ethyltoluene	< 4.0	< 5.0
n-Heptane	< 1.3	6.0
Hexachloro-1,3-butadiene	< 3.5	< 10.9
n-Hexane	3.5	< 3.6
Methylene Chloride	1.5	< 3.6
4-methyl-2-pentanone	2.9	7.2
Naphthalene	< 4.3	< 5.4
2-propanol	< 4.0	7.6
Styrene	< 1.4	4.9
1,1,2,2-Tetrachloroethane	< 1.1	< 7.0
Tetrahydrofuran	482	230
Toluene	112	107
1,2,4-Trichlorobenzene	< 1.6	< 7.6
1,1,2-Trichloroethane	< 0.89	< 5.6
Trichloroethene	< 0.89	< 5.5
Trichlorofluoromethane	< 1.8	< 5.8
1,1,2-Trichlorotrifluoroethane	< 2.6	< 7.9
1,2,4-Trimethylbenzene	< 1.6	< 5.0
1,3,5-Trimethylbenzene	< 1.6	< 5.0
Vinyl Chloride	< 0.42	< 2.6
THC as Gas	2,590	11,500
Xylenes	< 4.2	12.6

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume
10. ** = Sample volume was lost during transport to Air Technologies Laboratory

Sample ID
A-074922-052412-CM-03823P1-2
GW-074922-052412-CM-03823P1-2

Resident
Lynn Robbins

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 19, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: Project 2 Area 6
Pace Project No.: 60125293

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between May 25, 2012 and May 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Project 2 Area 6
Pace Project No.: 60125293

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Project 2 Area 6
Pace Project No.: 60125293

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122079005	A-074922-052412-CM-03823PI-2	Air	05/24/12 09:05	05/25/12 09:08
60122079017	GW-074922-052412-CM-03823P1-2	Water	05/24/12 09:00	05/26/12 10:00
60122228005	A-074922-052412-CM-03823P1-2	Air	05/24/12 09:05	05/25/12 10:01

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SAMPLE ANALYTE COUNT

Project: Project 2 Area 6
Pace Project No.: 60125293

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122079017	**GW-074922-052412-CM-03823P1-2**	RSK 175	SK4	1	PASI-M
		EPA 8015B	SDR	3	PASI-K
		EPA 6010	SMW	5	PASI-K
		EPA 5030B/8260	JTS	70	PASI-K
		SM 2320B	JMM	2	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	OL	3	PASI-K
60122228005	**A-074922-052412-CM-03823P1-2**	TO-15	DR1	61	PASI-M

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/15342

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- A-074922-052412-CM-03823P1-2 (Lab ID: 60122228005)
  - Ethanol
- LCS (Lab ID: 1243211)
  - Carbon disulfide
  - Ethanol

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/15342

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1243211)
  - Hexachloro-1,3-butadiene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/15342

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1243211)
  - Hexachloro-1,3-butadiene

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/12529

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18210

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1006348)
  - Sodium, Dissolved
- MSD (Lab ID: 1006349)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/46098

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/35356

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 1008176)
  - Alkalinity,Bicarbonate (CaCO3)

Additional Comments:

Analyte Comments:

QC Batch: WET/35356

B: Analyte was detected in the associated method blank.
- GW-074922-052412-CM-03823P1-2 (Lab ID: 60122079017)
  - Alkalinity,Bicarbonate (CaCO3)
  - Alkalinity, Total as CaCO3

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 2 Area 6
Pace Project No.: 60125293

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Project 2 Area 6
Pace Project No.: 60125293

Sample: GW-074922-052412-CM-03823P1-2 **Lab ID: 60122079017** Collected: 05/24/12 09:00 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**148**	ug/L	6.6	0.69	1		05/31/12 15:49	74-82-8	
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.59	0.11	1	05/29/12 00:00	06/05/12 00:44		
Surrogates									
p-Terphenyl (S)	71	%	40-118		1	05/29/12 00:00	06/05/12 00:44	92-94-4	
n-Tetracosane (S)	76	%	36-120		1	05/29/12 00:00	06/05/12 00:44	646-31-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	ND	ug/L	100	1.8	1	05/31/12 15:50	06/06/12 13:44	7440-42-8	
Calcium, Dissolved	**94600**	ug/L	100	35.8	1	05/31/12 15:50	06/06/12 13:44	7440-70-2	
Magnesium, Dissolved	**2990**	ug/L	50.0	17.2	1	05/31/12 15:50	06/06/12 13:44	7439-95-4	
Potassium, Dissolved	**1660**	ug/L	500	64.1	1	05/31/12 15:50	06/06/12 13:44	7440-09-7	
Sodium, Dissolved	**167000**	ug/L	500	40.1	1	05/31/12 15:50	06/06/12 13:44	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.4	1		06/07/12 19:42	67-64-1	
Benzene	ND	ug/L	1.0	0.050	1		06/07/12 19:42	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.11	1		06/07/12 19:42	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.080	1		06/07/12 19:42	75-27-4	
Bromoform	ND	ug/L	1.0	0.10	1		06/07/12 19:42	75-25-2	
Bromomethane	ND	ug/L	1.0	0.17	1		06/07/12 19:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.56	1		06/07/12 19:42	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.070	1		06/07/12 19:42	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.070	1		06/07/12 19:42	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.14	1		06/07/12 19:42	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.030	1		06/07/12 19:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.020	1		06/07/12 19:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.040	1		06/07/12 19:42	108-90-7	
Chloroethane	ND	ug/L	1.0	0.080	1		06/07/12 19:42	75-00-3	
Chloroform	ND	ug/L	1.0	0.12	1		06/07/12 19:42	67-66-3	
Chloromethane	ND	ug/L	1.0	0.070	1		06/07/12 19:42	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.050	1		06/07/12 19:42	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.070	1		06/07/12 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.21	1		06/07/12 19:42	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.050	1		06/07/12 19:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.060	1		06/07/12 19:42	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.060	1		06/07/12 19:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.050	1		06/07/12 19:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.080	1		06/07/12 19:42	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.040	1		06/07/12 19:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.050	1		06/07/12 19:42	107-06-2	

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ANALYTICAL RESULTS

Project: Project 2 Area 6
Pace Project No.: 60125293

Sample: GW-074922-052412-CM-03823P1-2 **Lab ID: 60122079017** Collected: 05/24/12 09:00 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.11	1		06/07/12 19:42	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.080	1		06/07/12 19:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.070	1		06/07/12 19:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.040	1		06/07/12 19:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.11	1		06/07/12 19:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.030	1		06/07/12 19:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.070	1		06/07/12 19:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.050	1		06/07/12 19:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.020	1		06/07/12 19:42	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.11	1		06/07/12 19:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.070	1		06/07/12 19:42	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.18	1		06/07/12 19:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.080	1		06/07/12 19:42	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.16	1		06/07/12 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.17	1		06/07/12 19:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.050	1		06/07/12 19:42	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.050	1		06/07/12 19:42	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.11	1		06/07/12 19:42	103-65-1	
Styrene	ND	ug/L	1.0	0.040	1		06/07/12 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.040	1		06/07/12 19:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.050	1		06/07/12 19:42	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	127-18-4	
Toluene	ND	ug/L	1.0	0.18	1		06/07/12 19:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.070	1		06/07/12 19:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.050	1		06/07/12 19:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.050	1		06/07/12 19:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.060	1		06/07/12 19:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.070	1		06/07/12 19:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.14	1		06/07/12 19:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.20	1		06/07/12 19:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.14	1		06/07/12 19:42	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.060	1		06/07/12 19:42	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.47	1		06/07/12 19:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	87-113		1		06/07/12 19:42	460-00-4	
Dibromofluoromethane (S)	98	%	86-112		1		06/07/12 19:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119		1		06/07/12 19:42	17060-07-0	
Toluene-d8 (S)	101	%	90-110		1		06/07/12 19:42	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/07/12 19:42		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**236**	mg/L	20.0	3.8	1		06/04/12 14:15		B

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ANALYTICAL RESULTS

Project: Project 2 Area 6
Pace Project No.: 60125293

Sample: GW-074922-052412-CM-03823P1-2 **Lab ID: 60122079017** Collected: 05/24/12 09:00 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**236**	mg/L	20.0	3.8	1		06/04/12 14:15		B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**796**	mg/L	5.0	5.0	1		05/31/12 17:03		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		05/29/12 16:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.059	1		06/08/12 00:38	24959-67-9	
Chloride	**5.9**	mg/L	1.0	0.056	1		06/08/12 00:38	16887-00-6	
Sulfate	**403**	mg/L	50.0	7.5	50		06/08/12 14:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Project 2 Area 6
Pace Project No.: 60125293

Sample: A-074922-052412-CM-03823P1-2 **Lab ID: 60122228005** Collected: 05/24/12 09:05 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
Acetone	**201**	ug/m3	24.4	12.2	20.2		06/04/12 17:59	67-64-1	
Benzene	ND	ug/m3	3.3	1.6	2.02		06/01/12 20:29	71-43-2	
Benzyl chloride	ND	ug/m3	5.3	2.7	2.02		06/01/12 20:29	100-44-7	
Bromodichloromethane	ND	ug/m3	6.9	3.4	2.02		06/01/12 20:29	75-27-4	
Bromoform	ND	ug/m3	10.6	5.3	2.02		06/01/12 20:29	75-25-2	
Bromomethane	ND	ug/m3	4.0	2.0	2.02		06/01/12 20:29	74-83-9	
1,3-Butadiene	ND	ug/m3	2.3	1.1	2.02		06/01/12 20:29	106-99-0	
2-Butanone (MEK)	**212**	ug/m3	30.3	15.2	20.2		06/04/12 17:59	78-93-3	
Carbon disulfide	ND	ug/m3	3.2	1.6	2.02		06/01/12 20:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	6.5	3.2	2.02		06/01/12 20:29	56-23-5	
Chlorobenzene	ND	ug/m3	4.7	2.4	2.02		06/01/12 20:29	108-90-7	
Chloroethane	ND	ug/m3	2.7	1.4	2.02		06/01/12 20:29	75-00-3	
Chloroform	**37.9**	ug/m3	5.0	2.5	2.02		06/01/12 20:29	67-66-3	
Chloromethane	ND	ug/m3	2.1	1.1	2.02		06/01/12 20:29	74-87-3	
Cyclohexane	**5.1**	ug/m3	3.5	1.8	2.02		06/01/12 20:29	110-82-7	
Dibromochloromethane	ND	ug/m3	8.7	4.4	2.02		06/01/12 20:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	7.9	3.9	2.02		06/01/12 20:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.2	3.1	2.02		06/01/12 20:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	6.2	3.1	2.02		06/01/12 20:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.2	3.1	2.02		06/01/12 20:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	5.1	2.5	2.02		06/01/12 20:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4.2	2.1	2.02		06/01/12 20:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	4.2	2.1	2.02		06/01/12 20:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4.1	2.0	2.02		06/01/12 20:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4.1	2.0	2.02		06/01/12 20:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4.1	2.0	2.02		06/01/12 20:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.7	2.4	2.02		06/01/12 20:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.7	2.3	2.02		06/01/12 20:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.7	2.3	2.02		06/01/12 20:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	7.2	3.6	2.02		06/01/12 20:29	76-14-2	
Ethanol	**30.3**	ug/m3	1.9	0.97	2.02		06/01/12 20:29	64-17-5	SS
Ethyl acetate	ND	ug/m3	3.7	1.8	2.02		06/01/12 20:29	141-78-6	
Ethylbenzene	ND	ug/m3	4.5	2.2	2.02		06/01/12 20:29	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.0	2.5	2.02		06/01/12 20:29	622-96-8	
n-Heptane	**6.0**	ug/m3	4.2	2.1	2.02		06/01/12 20:29	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	10.9	5.5	2.02		06/01/12 20:29	87-68-3	
n-Hexane	ND	ug/m3	3.6	1.8	2.02		06/01/12 20:29	110-54-3	
2-Hexanone	ND	ug/m3	4.2	2.1	2.02		06/01/12 20:29	591-78-6	
Methylene Chloride	ND	ug/m3	3.6	1.8	2.02		06/01/12 20:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.2**	ug/m3	4.2	2.1	2.02		06/01/12 20:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.4	3.7	2.02		06/01/12 20:29	1634-04-4	
Naphthalene	ND	ug/m3	5.4	2.7	2.02		06/01/12 20:29	91-20-3	
2-Propanol	**7.6**	ug/m3	2.5	1.3	2.02		06/01/12 20:29	67-63-0	
Propylene	ND	ug/m3	7.1	3.5	2.02		06/01/12 20:29	115-07-1	
Styrene	**4.9**	ug/m3	4.4	2.2	2.02		06/01/12 20:29	100-42-5	

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ANALYTICAL RESULTS

Project: Project 2 Area 6
Pace Project No.: 60125293

Sample: A-074922-052412-CM-03823P1-2 **Lab ID: 60122228005** Collected: 05/24/12 09:05 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.0	3.5	2.02		06/01/12 20:29	79-34-5	
Tetrachloroethene	ND	ug/m3	7.0	3.5	2.02		06/01/12 20:29	127-18-4	
Tetrahydrofuran	**230**	ug/m3	30.3	15.2	20.2		06/04/12 17:59	109-99-9	
Toluene	**107**	ug/m3	3.9	1.9	2.02		06/01/12 20:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.6	3.8	2.02		06/01/12 20:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.6	2.8	2.02		06/01/12 20:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	5.6	2.8	2.02		06/01/12 20:29	79-00-5	
Trichloroethene	ND	ug/m3	5.5	2.8	2.02		06/01/12 20:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	5.8	2.9	2.02		06/01/12 20:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	7.9	3.9	2.02		06/01/12 20:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	5.0	2.5	2.02		06/01/12 20:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5.0	2.5	2.02		06/01/12 20:29	108-67-8	
Vinyl acetate	ND	ug/m3	3.6	1.8	2.02		06/01/12 20:29	108-05-4	
Vinyl chloride	ND	ug/m3	2.6	1.3	2.02		06/01/12 20:29	75-01-4	
m&p-Xylene	**12.6**	ug/m3	8.9	4.5	2.02		06/01/12 20:29	179601-23-1	
o-Xylene	ND	ug/m3	4.5	2.2	2.02		06/01/12 20:29	95-47-6	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: AIR/15000
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60122079017

METHOD BLANK: 1207105 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	6.6	05/31/12 11:19	

LABORATORY CONTROL SAMPLE & LCSD: 1207106 1207107

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	60.1	59.2	99	98	70-130	2	30	

SAMPLE DUPLICATE: 1208486

Parameter	Units	92119176037 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	92.7	78.3	17	30	

SAMPLE DUPLICATE: 1208946

Parameter	Units	5063487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	ND	1.2J		30	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: AIR/15342
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR - AMBIENT
Associated Lab Samples: 60122228005

METHOD BLANK: 1243210
Matrix: Air
Associated Lab Samples: 60122228005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	2.8	06/01/12 11:46	
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.5	06/01/12 11:46	
1,1,2-Trichloroethane	ug/m3	ND	2.8	06/01/12 11:46	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	3.9	06/01/12 11:46	
1,1-Dichloroethane	ug/m3	ND	2.1	06/01/12 11:46	
1,1-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	06/01/12 11:46	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	06/01/12 11:46	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/01/12 11:46	
1,2-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
1,2-Dichloroethane	ug/m3	ND	2.1	06/01/12 11:46	
1,2-Dichloropropane	ug/m3	ND	2.4	06/01/12 11:46	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	06/01/12 11:46	
1,3-Butadiene	ug/m3	ND	1.1	06/01/12 11:46	
1,3-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
1,4-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
2-Butanone (MEK)	ug/m3	ND	1.5	06/01/12 11:46	
2-Hexanone	ug/m3	ND	2.1	06/01/12 11:46	
2-Propanol	ug/m3	ND	1.2	06/01/12 11:46	
4-Ethyltoluene	ug/m3	ND	2.5	06/01/12 11:46	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	06/01/12 11:46	
Acetone	ug/m3	ND	1.2	06/01/12 11:46	
Benzene	ug/m3	ND	1.6	06/01/12 11:46	
Benzyl chloride	ug/m3	ND	2.6	06/01/12 11:46	
Bromodichloromethane	ug/m3	ND	3.4	06/01/12 11:46	
Bromoform	ug/m3	ND	5.2	06/01/12 11:46	
Bromomethane	ug/m3	ND	2.0	06/01/12 11:46	
Carbon disulfide	ug/m3	ND	1.6	06/01/12 11:46	
Carbon tetrachloride	ug/m3	ND	3.2	06/01/12 11:46	
Chlorobenzene	ug/m3	ND	2.3	06/01/12 11:46	
Chloroethane	ug/m3	ND	1.3	06/01/12 11:46	
Chloroform	ug/m3	ND	2.5	06/01/12 11:46	
Chloromethane	ug/m3	ND	1.0	06/01/12 11:46	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/01/12 11:46	
Cyclohexane	ug/m3	ND	1.8	06/01/12 11:46	
Dibromochloromethane	ug/m3	ND	4.3	06/01/12 11:46	
Dichlorodifluoromethane	ug/m3	ND	2.5	06/01/12 11:46	
Dichlorotetrafluoroethane	ug/m3	ND	3.6	06/01/12 11:46	
Ethanol	ug/m3	ND	0.96	06/01/12 11:46	
Ethyl acetate	ug/m3	ND	1.8	06/01/12 11:46	
Ethylbenzene	ug/m3	ND	2.2	06/01/12 11:46	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	06/01/12 11:46	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

METHOD BLANK: 1243210 Matrix: Air

Associated Lab Samples: 60122228005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	4.4	06/01/12 11:46	
Methyl-tert-butyl ether	ug/m3	ND	3.7	06/01/12 11:46	
Methylene Chloride	ug/m3	ND	1.8	06/01/12 11:46	
n-Heptane	ug/m3	ND	2.1	06/01/12 11:46	
n-Hexane	ug/m3	ND	1.8	06/01/12 11:46	
Naphthalene	ug/m3	ND	2.7	06/01/12 11:46	
o-Xylene	ug/m3	ND	2.2	06/01/12 11:46	
Propylene	ug/m3	ND	3.5	06/01/12 11:46	
Styrene	ug/m3	ND	2.2	06/01/12 11:46	
Tetrachloroethene	ug/m3	ND	3.4	06/01/12 11:46	
Tetrahydrofuran	ug/m3	ND	1.5	06/01/12 11:46	
Toluene	ug/m3	ND	1.9	06/01/12 11:46	
trans-1,2-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/01/12 11:46	
Trichloroethene	ug/m3	ND	2.7	06/01/12 11:46	
Trichlorofluoromethane	ug/m3	ND	2.9	06/01/12 11:46	
Vinyl acetate	ug/m3	ND	1.8	06/01/12 11:46	
Vinyl chloride	ug/m3	ND	1.3	06/01/12 11:46	

LABORATORY CONTROL SAMPLE: 1243211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.3	114	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.0	109	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	59.4	107	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	77.7	100	65-132	
1,1-Dichloroethane	ug/m3	41.2	44.6	108	67-132	
1,1-Dichloroethene	ug/m3	40.3	46.1	114	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	102	135	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	59.1	118	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	85.9	110	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	68.7	112	71-132	
1,2-Dichloroethane	ug/m3	41.2	48.8	119	70-131	
1,2-Dichloropropane	ug/m3	47	47.6	101	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	56.6	113	70-133	
1,3-Butadiene	ug/m3	22.5	22.0	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	70.2	115	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	67.9	111	72-131	
2-Butanone (MEK)	ug/m3	30	29.3	98	69-131	
2-Hexanone	ug/m3	41.7	41.9	100	71-134	
2-Propanol	ug/m3	25	21.7	87	72-132	
4-Ethyltoluene	ug/m3	50	56.8	114	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	41.4	99	69-135	
Acetone	ug/m3	24.2	20.3	84	61-139	
Benzene	ug/m3	32.5	35.2	108	69-134	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

LABORATORY CONTROL SAMPLE: 1243211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	56.2	107	70-129	
Bromodichloromethane	ug/m3	68.2	81.7	120	71-130	
Bromoform	ug/m3	105	120	114	70-130	
Bromomethane	ug/m3	39.5	41.4	105	69-125	
Carbon disulfide	ug/m3	31.7	33.8	107	66-131	SS
Carbon tetrachloride	ug/m3	64	70.3	110	68-128	
Chlorobenzene	ug/m3	46.8	54.5	116	75-128	
Chloroethane	ug/m3	26.8	27.8	104	66-131	
Chloroform	ug/m3	49.7	54.9	111	68-132	
Chloromethane	ug/m3	21	21.0	100	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	41.2	102	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	49.9	108	74-134	
Cyclohexane	ug/m3	35	34.9	100	67-136	
Dibromochloromethane	ug/m3	86.6	88.6	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	54.5	108	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	73.5	103	66-130	
Ethanol	ug/m3	19.2	17.9	93	69-131	SS
Ethyl acetate	ug/m3	36.6	36.3	99	71-131	
Ethylbenzene	ug/m3	44.2	51.9	118	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	188	173	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	92.1	104	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	39.7	108	70-132	
Methylene Chloride	ug/m3	35.3	34.6	98	73-134	
n-Heptane	ug/m3	41.7	40.5	97	70-134	
n-Hexane	ug/m3	35.8	35.2	98	65-133	
Naphthalene	ug/m3	53.3	72.2	135	57-150	
o-Xylene	ug/m3	44.2	51.6	117	69-138	
Propylene	ug/m3	17.5	16.9	97	70-134	
Styrene	ug/m3	43.3	47.8	110	72-132	
Tetrachloroethene	ug/m3	69	77.4	112	70-130	
Tetrahydrofuran	ug/m3	30	28.5	95	74-128	
Toluene	ug/m3	38.3	42.9	112	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	42.7	106	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	47.6	103	73-130	
Trichloroethene	ug/m3	54.6	58.3	107	72-131	
Trichlorofluoromethane	ug/m3	57.1	58.8	103	66-129	
Vinyl acetate	ug/m3	35.8	35.1	98	71-131	
Vinyl chloride	ug/m3	26	26.4	102	70-131	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: MPRP/18210
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60122079017

METHOD BLANK: 1006346 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/06/12 13:08	
Calcium, Dissolved	ug/L	ND	100	06/06/12 13:08	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 13:08	
Potassium, Dissolved	ug/L	ND	500	06/06/12 13:08	
Sodium, Dissolved	ug/L	ND	500	06/06/12 13:08	

LABORATORY CONTROL SAMPLE: 1006347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	949	95	80-120	
Calcium, Dissolved	ug/L	10000	9260	93	80-120	
Magnesium, Dissolved	ug/L	10000	9950	99	80-120	
Potassium, Dissolved	ug/L	10000	9960	100	80-120	
Sodium, Dissolved	ug/L	10000	9670	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006348 1006349

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	119	1000	1000	1070	1090	95	97	75-125	2	20	
Calcium, Dissolved	ug/L	193000	10000	10000	201000	205000	76	120	75-125	2	20	
Magnesium, Dissolved	ug/L	11300	10000	10000	20700	21000	94	97	75-125	1	20	
Potassium, Dissolved	ug/L	2890	10000	10000	13000	13200	101	103	75-125	2	20	
Sodium, Dissolved	ug/L	306000	10000	10000	291000	296000	-154	-106	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: MSV/46098
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122079017

METHOD BLANK: 1009791
Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1-Dichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1-Dichloroethene	ug/L	ND	1.0	06/07/12 16:42	
1,1-Dichloropropene	ug/L	ND	1.0	06/07/12 16:42	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/07/12 16:42	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/07/12 16:42	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichloropropane	ug/L	ND	1.0	06/07/12 16:42	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/07/12 16:42	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,3-Dichloropropane	ug/L	ND	1.0	06/07/12 16:42	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
2,2-Dichloropropane	ug/L	ND	1.0	06/07/12 16:42	
2-Butanone (MEK)	ug/L	ND	10.0	06/07/12 16:42	
2-Chlorotoluene	ug/L	ND	1.0	06/07/12 16:42	
2-Hexanone	ug/L	ND	10.0	06/07/12 16:42	
4-Chlorotoluene	ug/L	ND	1.0	06/07/12 16:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/07/12 16:42	
Acetone	ug/L	ND	10.0	06/07/12 16:42	
Benzene	ug/L	ND	1.0	06/07/12 16:42	
Bromobenzene	ug/L	ND	1.0	06/07/12 16:42	
Bromochloromethane	ug/L	ND	1.0	06/07/12 16:42	
Bromodichloromethane	ug/L	ND	1.0	06/07/12 16:42	
Bromoform	ug/L	ND	1.0	06/07/12 16:42	
Bromomethane	ug/L	ND	1.0	06/07/12 16:42	
Carbon disulfide	ug/L	ND	5.0	06/07/12 16:42	
Carbon tetrachloride	ug/L	ND	1.0	06/07/12 16:42	
Chlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
Chloroethane	ug/L	ND	1.0	06/07/12 16:42	
Chloroform	ug/L	ND	1.0	06/07/12 16:42	
Chloromethane	ug/L	ND	1.0	06/07/12 16:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/07/12 16:42	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/07/12 16:42	
Dibromochloromethane	ug/L	ND	1.0	06/07/12 16:42	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

METHOD BLANK: 1009791 Matrix: Water

Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	06/07/12 16:42	
Dichlorodifluoromethane	ug/L	ND	1.0	06/07/12 16:42	
Ethylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/07/12 16:42	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/07/12 16:42	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/07/12 16:42	
Methylene chloride	ug/L	ND	1.0	06/07/12 16:42	
n-Butylbenzene	ug/L	ND	1.0	06/07/12 16:42	
n-Propylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Naphthalene	ug/L	ND	10.0	06/07/12 16:42	
p-Isopropyltoluene	ug/L	ND	1.0	06/07/12 16:42	
sec-Butylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Styrene	ug/L	ND	1.0	06/07/12 16:42	
tert-Butylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Tetrachloroethene	ug/L	ND	1.0	06/07/12 16:42	
Toluene	ug/L	ND	1.0	06/07/12 16:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/07/12 16:42	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/07/12 16:42	
Trichloroethene	ug/L	ND	1.0	06/07/12 16:42	
Trichlorofluoromethane	ug/L	ND	1.0	06/07/12 16:42	
Vinyl chloride	ug/L	ND	1.0	06/07/12 16:42	
Xylene (Total)	ug/L	ND	3.0	06/07/12 16:42	
1,2-Dichloroethane-d4 (S)	%	101	82-119	06/07/12 16:42	
4-Bromofluorobenzene (S)	%	103	87-113	06/07/12 16:42	
Dibromofluoromethane (S)	%	99	86-112	06/07/12 16:42	
Toluene-d8 (S)	%	103	90-110	06/07/12 16:42	

LABORATORY CONTROL SAMPLE: 1009792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.4	102	81-121	
1,1,1-Trichloroethane	ug/L	20	18.7	94	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	78-124	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-121	
1,1-Dichloroethane	ug/L	20	17.0	85	73-119	
1,1-Dichloroethene	ug/L	20	17.8	89	75-120	
1,1-Dichloropropene	ug/L	20	19.2	96	79-123	
1,2,3-Trichlorobenzene	ug/L	20	20.3	101	73-122	
1,2,3-Trichloropropane	ug/L	20	18.9	94	77-124	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	75-120	
1,2,4-Trimethylbenzene	ug/L	20	18.2	91	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.4	107	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	85-121	
1,2-Dichlorobenzene	ug/L	20	19.1	95	82-115	
1,2-Dichloroethane	ug/L	20	21.3	107	77-125	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

LABORATORY CONTROL SAMPLE: 1009792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	36.6	92	79-120	
1,2-Dichloropropane	ug/L	20	19.1	95	83-119	
1,3,5-Trimethylbenzene	ug/L	20	17.4	87	79-121	
1,3-Dichlorobenzene	ug/L	20	19.0	95	79-117	
1,3-Dichloropropane	ug/L	20	18.9	94	78-116	
1,4-Dichlorobenzene	ug/L	20	19.3	96	83-115	
2,2-Dichloropropane	ug/L	20	16.1	81	66-123	
2-Butanone (MEK)	ug/L	100	112	112	43-165	
2-Chlorotoluene	ug/L	20	17.8	89	81-117	
2-Hexanone	ug/L	100	113	113	47-159	
4-Chlorotoluene	ug/L	20	19.0	95	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	71-129	
Acetone	ug/L	100	90.1	90	18-192	
Benzene	ug/L	20	19.1	96	82-117	
Bromobenzene	ug/L	20	19.5	97	83-116	
Bromochloromethane	ug/L	20	19.5	98	79-121	
Bromodichloromethane	ug/L	20	18.9	94	79-114	
Bromoform	ug/L	20	20.1	101	78-121	
Bromomethane	ug/L	20	19.3	97	36-146	
Carbon disulfide	ug/L	20	16.8	84	75-138	
Carbon tetrachloride	ug/L	20	19.0	95	80-123	
Chlorobenzene	ug/L	20	19.3	97	83-121	
Chloroethane	ug/L	20	18.0	90	42-166	
Chloroform	ug/L	20	18.5	93	82-116	
Chloromethane	ug/L	20	19.2	96	32-127	
cis-1,2-Dichloroethene	ug/L	20	16.9	84	80-119	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	76-119	
Dibromochloromethane	ug/L	20	20.0	100	81-123	
Dibromomethane	ug/L	20	19.3	97	79-123	
Dichlorodifluoromethane	ug/L	20	13.1	65	10-163	
Ethylbenzene	ug/L	20	18.7	93	79-121	
Hexachloro-1,3-butadiene	ug/L	20	17.7	89	78-125	
Isopropylbenzene (Cumene)	ug/L	20	20.3	102	80-120	
Methyl-tert-butyl ether	ug/L	20	19.0	95	78-119	
Methylene chloride	ug/L	20	18.6	93	75-118	
n-Butylbenzene	ug/L	20	18.1	91	80-126	
n-Propylbenzene	ug/L	20	16.8	84	83-116	
Naphthalene	ug/L	20	21.7	109	66-133	
p-Isopropyltoluene	ug/L	20	18.2	91	77-120	
sec-Butylbenzene	ug/L	20	18.0	90	81-120	
Styrene	ug/L	20	19.7	99	84-115	
tert-Butylbenzene	ug/L	20	20.1	100	80-117	
Tetrachloroethene	ug/L	20	17.6	88	80-124	
Toluene	ug/L	20	19.3	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	79-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	76-118	
Trichloroethene	ug/L	20	18.7	93	76-122	
Trichlorofluoromethane	ug/L	20	17.3	87	72-120	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

LABORATORY CONTROL SAMPLE: 1009792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	17.1	85	57-163	
Xylene (Total)	ug/L	60	57.1	95	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			101	90-110	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: OEXT/33332
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60122079017

METHOD BLANK: 1005185 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	06/04/12 22:19	
n-Tetracosane (S)	%	78	36-120	06/04/12 22:19	
p-Terphenyl (S)	%	78	40-118	06/04/12 22:19	

LABORATORY CONTROL SAMPLE: 1005186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	82	48-119	
n-Tetracosane (S)	%			67	36-120	
p-Terphenyl (S)	%			73	40-118	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: WET/35356 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60122079017

METHOD BLANK: 1008174 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	06/04/12 14:15	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	06/04/12 14:15	

LABORATORY CONTROL SAMPLE: 1008175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	536	107	90-110	
Alkalinity,Bicarbonate (CaCO3)	mg/L		ND			

SAMPLE DUPLICATE: 1008176

Parameter	Units	60121975002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L		275	4	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L		185	11	9	D6

SAMPLE DUPLICATE: 1008177

Parameter	Units	60122183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	444	456	3	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	444	456	3	9	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: WET/35313 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122079017

METHOD BLANK: 1006706 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/31/12 17:01	

SAMPLE DUPLICATE: 1006707

Parameter	Units	60122099002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1820	1600	13	17	

SAMPLE DUPLICATE: 1006708

Parameter	Units	60122183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	477	452	5	17	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: WET/35258 Analysis Method: SM 4500-S-2 D
QC Batch Method: SM 4500-S-2 D Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60122079017

METHOD BLANK: 1005278 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/29/12 16:10	

LABORATORY CONTROL SAMPLE: 1005279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 1005280

Parameter	Units	60122079010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.56	111	75-125	

SAMPLE DUPLICATE: 1005281

Parameter	Units	60122079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

QC Batch: WETA/20466
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60122079017

METHOD BLANK: 1010005 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	06/07/12 17:12	
Chloride	mg/L	ND	1.0	06/07/12 17:12	
Sulfate	mg/L	ND	1.0	06/07/12 17:12	

METHOD BLANK: 1010613 Matrix: Water
Associated Lab Samples: 60122079017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/08/12 09:41	
Sulfate	mg/L	ND	1.0	06/08/12 09:41	

LABORATORY CONTROL SAMPLE: 1010006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.1	102	90-110	
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1010614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1010007 1010008

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.0	4.8	100	97	75-119	3	10	
Chloride	mg/L	8.1	5	5	12.3	12.4	85	87	64-118	1	12	
Sulfate	mg/L	1080	1000	1000	2070	2060	99	98	61-119	0	10	

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QUALITY CONTROL DATA

Project: Project 2 Area 6
Pace Project No.: 60125293

MATRIX SPIKE SAMPLE: 1010009

Parameter	Units	60122079014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	5	4.8	88	75-119	
Chloride	mg/L	5.6	5	10	89	64-118	
Sulfate	mg/L	2610	2500	5610	120	61-119	M6

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QUALIFIERS

Project: Project 2 Area 6
Pace Project No.: 60125293

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/33332

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/46098

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	107.02 TIMES SPIKE AMOUNT.
2e	299.26 TIMES SPIKE AMOUNT
B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALIFIERS

Project: Project 2 Area 6
Pace Project No.: 60125293

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Project 2 Area 6
Pace Project No.: 60125293

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122079017	GW-074922-052412-CM-03823P1-2	RSK 175	AIR/15000		
60122228005	A-074922-052412-CM-03823P1-2	TO-15	AIR/15342		
60122079017	GW-074922-052412-CM-03823P1-2	EPA 3510C	OEXT/33332	EPA 8015B	GCSV/12529
60122079017	GW-074922-052412-CM-03823P1-2	EPA 3010	MPRP/18210	EPA 6010	ICP/15298
60122079017	GW-074922-052412-CM-03823P1-2	EPA 5030B/8260	MSV/46098		
60122079017	GW-074922-052412-CM-03823P1-2	SM 2320B	WET/35356		
60122079017	GW-074922-052412-CM-03823P1-2	SM 2540C	WET/35313		
60122079017	GW-074922-052412-CM-03823P1-2	SM 4500-S-2 D	WET/35258		
60122079017	GW-074922-052412-CM-03823P1-2	EPA 300.0	WETA/20466		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 249468 Job Number: 18327

Submitter Sample Name: GW-074922-052412-CM-03823P1-2

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan County, NM

Depth/Formation:

Container Type: 60ml Bottle

Sample Collected: 5/24/2012 Results Reported: 6/04/2012

δD of water	----------	-111.8 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-14.65 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks:

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 249412 Job #: 18320
Sample Name: A-074922-052412-CM-03823P1-2 Co. Lab#:
Company: Pace Analytical
Date Sampled: 5/24/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location: San Juan County, NM
Formation/Depth:
Sampling Point:
Date Received: 5/29/2012 Date Reported: 7/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	0.0017			
Hydrogen	nd			
Argon	0.980			
Oxygen	21.78			
Nitrogen	77.12			
Carbon Dioxide	0.12			
Methane	0.0003			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.002

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

108

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**D052505-05**							
Client Sample I.D.:	**60122079005 / A-074922-052412-CM 03823P1-2**							
Date Sampled:	**05/24/12**							
Date Analyzed:	**06/04/12**							
QC Batch No.:	**120604GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**2.1**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Acetylene	ND	0.0021						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 7-18-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D052505-05							
Client Sample I.D.:	60122079005 / A-074922-052412-CM-03823P1-2							
Date Sampled:	05/24/12							
Date Analyzed:	05/25/12							
QC Batch No.:	120525GC3A1							
Analyst Initials:	VM							
Dilution Factor:	2.1							
ANALYTE	**Result ppmv**	**RL ppmv**						
Hydrogen Sulfide	ND	0.41						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 7-18-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

CHAIN-OF-CUSTODY / Analytical Request Document

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: CRA	Report To: Christine Mathews	Attention: ENFOS
Address: 6121 Indian School Rd NE, Ste 200	Copy To: Angela Bown, Chris Fetters	Company Name:
Albequerque, NM 87110		Address:
Email To: cmathews@craworld.com	Purchase Order No.:	Pace Quote Reference:
Phone: 503-377-3920 Fax: (505)884-4932	Project Name: Area 6	Pace Project Manager: Alice Tracy
Requested Due Date/TAT: standard	Project Number: 74922	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOC's Full List	6010 Metals Dissolved*	2540 TDS	300.0 Cl, Br, S, bicarbonate	4500 Sulfide	8015 TPH GRO and DRO	RSK175 dissolved methane	TO-15 Full list VOC's/TPH BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074922-052212-CM-03250	WT	G	~~5/22/12~~	10	5/22/12	1035		10	X		X	X		X	6DG	2H		X	X	X	2AG	1U	2BP3U	1BP3N 1BP3S 10.5	601221/96 ~~601220079~~ AFS 5/21/12
2	GW-074922-052212-CM-DUP	WT	G			5/22/12	1040		10	X		X	X		X				X	X	X					001
3	GW-074922-052212-CM-MS	WT	G			5/22/12	1045		10	X		X	X		X				X	X	X					~~003~~ ~~003~~ 5/26
4	GW-074922-052212-CM-MSD	WT	G			5/22/12	1050		10	X		X	X		X				X	X	X					002
5	GW-074922-052212-CM-03897PI-1	WT	G			5/22/12	1315		10	X		X	X		X				X	X	X					003
6	GW-074922-052212-CM-02816-2	WT	G			5/22/12	1440		10	X		X	X		X				X	X	X					004
7	GW-074922-052212-CM-03259-2	WT	G			5/22/12	1550		10	X		X	X		X				X	X	X					005
8	PW-074922-052312-CM-202-2	PW	G			5/23/12	0930	-	10	X		X	X		X				X	X	X	1AG	1U			006
9	PW-074922-052312-CM-25-2	PW	G			5/23/12	1145		18	X		X	X		X				X	X	X	-				007
10	GW-074922-052412-CM-03823PI-2	GW	G			5/24/12	0900		10	X		X	X		X				X	X	X	2AG	1U			008
11	GW-074922-052412-CM-02992-1	WT	G			5/24/12	1410	-	10	X		X	X		X			↓	X	X	X	1AG	1U	↓		009
12	TB-074922-052512-CM-001	WT				5/25/12	1145		3													3U	6H	X		010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*6010 Metals Dissolved; Mg, Ca, B, K, Na	Christine Mathews	5/25/12	1200		5/26/12	1000
RSK175 and TO15 direct ship to Pace Minnesota						
Direct ship to Airtech (EPA15/15 and ASTMD1946						
Direct ship to Isotech (Isotopes, fixed gases)						

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.9	Y	Y	Y
1.9			
2.0			
2.6			
2.1			

Comments: Samples beginning in PW are water from natural gas wells

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 05/25/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

60122196

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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09627 Page: 1 of 1

Section A Required Client Information:
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Email To: keblanchard@craworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Keblanchard@craworld.com
Copy To: cmathews@craworld.com
Purchase Order No.:
Project Name: Area 6 GW EA
Project Number: 074922

Section C Invoice Information:
Attention:
Company Name: ConocoPhillips ENFOS PO 535628
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: UST Superfund Emissions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other
Location of Sampling by State: NM
Reporting Units: ug/m³ mg/m³ PPBV PPMV Other
Report Level: II. III. IV. Other
Method: PM10 | 3C: Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-4 (PCBs) | TO-13 (PAH) | TO-14 | TO-15 | TO15 Short List*

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start / Grab DATE	COLLECTED Composite Start / Grab TIME	COLLECTED Composite DATE	COLLECTED Composite TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Pace Lab ID
1	~~A-074922-052212-CM-03817PI-1~~											
2	A-074922-052212-CM-02816-2	1LC		5/22/12	1500					1169		
3	A-074922-052212-CM-03259-2	1LC		5/22/12	1610					2495		
4	A-074922-052312-CM-202-2	1LC		5/23/12	1000					2418		
5	A-074922-052312-CM-25-2	1LC		5/23/12	1200					2476		
6	A-074922-052412-CM-03823PI-2	1LC		5/24/12	0905					2480		
7	~~A-074922-052412-CM-03~~											
8	A-074922-052412-CM-03250(2)-1	1LC		5/24/12	~~0935~~	1200				919		
9	A-074922-052412-CM-03250-2	1LC		5/24/12	~~0941~~	935				1319		
10	A-074922-052412-CM-02992-1	1LC		5/24/12		1515				1314		
11	A-074922-052412-CM-DUP	1LC		5/24/12		945				2419		
12												

Comments:
Full list VOC's & TPH
- Samples ending in 202-2 & 25-2 are gas samples.

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Christa Mathews	5/24/12	1700		5.25.12	1001

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christa Mathews
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 05/24/12

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

1138

60122196

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SHORT HOLD 5.26.12

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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09628 Page: 1 of 1

Section A Required Client Information:

Company: CRA
Address: 6121 Indian School Albuquerque, NM 87110
Email To: kblanchard@crawworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: kblanchard@crawworld.com
Copy To: cmathews@crawworld.com
Purchase Order No.:
Project Name: Area 6 GW & Air
Project Number: 074922

Section C Invoice Information:

Attention:
Company Name: Conoco Phillips
Address: ENFOS PO 535628
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NM

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

*Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE
PW = produced water
Ground water = GW

Valid Media Codes: MEDIA / CODE
Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	*Section D Required Client Information: AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / END/GRAB DATE	COLLECTED COMPOSITE START / END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	R5K 175 Dissolved Methane	Pace Lab ID
1	GW-074922-052212-CM-03250-2	GW		5/22/12	1035														X	X	X	
2	GW-074922-052212-CM-DUP	GW		5/22/12	1040														X	X	X	
3	GW-074922-052212-CM-MS	GW		5/22/12	1045														X	X	X	
4	GW-074922-052212-CM-MSD	GW		5/22/12	1050														X	X	X	
5	GW-074922-052212-CM-03897PI-1	GW		5/22/12	1315														X	X	X	
6	GW-074922-052212-CM-02816-2	GW		5/22/12	1440														X	X	X	
7	GW-074922-052212-CM-03259-2	GW		5/22/12	1550														X	X	X	
8	~~GW-074922~~ PW-074922-052312-CM-202-2	PW		5/23/12	0930														X	X	X	
9	PW-074922-052312-CM-25-2	PW		5/23/12	1145														X	X	X	
10	GW-074922-052412-CM-03823PI-2	GW		5/24/12	0900														X	X	X	
11	GW-074922-052412-CM-02992-1	GW		5/24/12	1410														X	X	X	
12																						

Comments: produced water samples items numbered 8 & 9 come from natural gas production wells.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	5/25/12	1200	[signature] PACE	5-26-12	9:15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christine Mathews
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 05/25/12

ORIGINAL

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmathews@crawrld.com

Project: 074922- Arab
Location: San Juan County, NM
Sampled by: CM, JP, HN

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Oxygen Isotopes	Comments
	GW-074922-052212-CM-03250-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-DUP	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MS	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MSD	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03897PI-1	5/22/12	(1) 60mL	
	GW-074922-052212-CM-02816-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03259-2	5/22/12	(1) 60mL	
Label Smudged *	PW-074922-052312-CM-202-2	5/23/12	(1) 60mL	water from natural gas well
	PW-074922-052312-CM-25-2	5/23/12	(1) 60mL	water from natural gas well
	GW-074922-052412-CM-03823PI-2	5/24/12	(1) 60mL	
	GW-074922-052412-CM-02992-1	5/24/12	(1) 60mL	

Chain-of-Custody Record

	Signature		Company	Date	Time
Relinquished by		5/25/12@	1200 CRA	5/24/12	1200
Received by			Isotech Labs	5/29/12@	1000
Relinquished by					
Received by					
Relinquished by					
Received by					

Send Data and Invoice to

Name: Christine Matthews
Company: CRA
Address: 612 Indian School Rd #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmatthews@craworld.com

Project: 074922 - Area 6
Location: San Juan County, NM
Sampled by: CM, JP, HN

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Carbon Isotopes	Analyses Requested: Hydrocarbons & Fixed Gases & Dec. Gravity/BTU	Analyses Requested: * if possible - O2, Oxygen & Sulfur Isotopes	Comments
	A-074922-052212-CM-02816-2	5/22/12	X	X	X	* run if possible w/ sample volume
	A-074922-052212-CM-03259-2	5/22/12	X	X	X	
	A-074922-052312-CM-202-2	5/23/12	X	X	X	
	A-074922-052312-CM-25-2	5/23/12	X	X	X	
	A-074922-052412-CM-03823PI-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250(2)-1	5/24/12	X	X	X	
	A-074922-052412-CM-02992-1	5/24/12	X	X	X	
	A-074922-052412-CM-DUP	5/24/12	X	X	X	

Comments: Sample were shipped in 3~~4~~ seperate boxes (3 per box) ~~1 box w/ 1 sample 2 empties~~) CM 5-24-12

CM 5-24-12

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Christine Matthews	CRA	5/24/12	1700
Received by	Mazzie Simmons	ISOTECH	5/25/12	1000
Relinquished by				
Received by				
Relinquished by				
Received by				

60122079

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
Standard [X] 48 hours [ ]
Same Day [ ] 72 hours [ ]
24 hours [ ] 96 hours [ ]
Other:

DELIVERABLES
EDD [X]
EDF [ ]
LEVEL 3 [ ]
LEVEL 4 [ ]

PAGE: 1 **OF** 1

Condition upon receipt:
Sealed Yes [ ] No [ ]
Intact Yes [ ] No [ ]
Chilled _____ deg C

Project No.: 074922
Project Name: Area 6
Report To: Christine Mathews
Company: CRA
Street: 6121 Indian School Rd #200
City/State/Zip: Albuquerque, NM, 87110
Phone& Fax: 505 884-0672
e-mail: cmathews@craworld.com

BILLING
P.O. No.:
Bill to: PACE Analytical

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	Acetylene ASTM D1946	Hydrogen Sulfide EPA 15/16				
	A-074922-052212-CM-02816-2	5/22/12	1500	AIR	silco	X	X				01
	A-074922-052212-CM-03259-2	5/22/12	1610	AIR	silco	X	X				02
	A-074922-052312-CM-202-2	5/23/12	1000	GAS	silco	X	X				03
	A-074922-052312-CM-85-2	5/23/12	1200	GAS	silco	X	X				04
	A-074922-052412-CM-03823P1-2	5/24/12	0905	AIR	silco	X	X				05
	A-074922-052412-CM-03250(2)-1	5/24/12	1200	AIR	silco	X	X				06
	A-074922-052412-CM-03250-2	5/24/12	0935	AIR	silco	X	X				07
	A-074922-052412-CM-02912-1	5/24/12	1515	AIR	silco	X	X				08
	A-074922-052412-CM-DUP	5/24/12	0945	AIR	silco	X	X				09

AUTHORIZATION TO PERFORM WORK	Christine Mathews COMPANY CRA	DATE/TIME 5/24/12 1700	
SAMPLED BY	Christine Mathews COMPANY CRA	DATE/TIME 5/24/12 1700	
RELINQUISHED BY	Christine Mathews DATE/TIME 5/24/12 1700	RECEIVED BY FEDEX	DATE/TIME
RELINQUISHED BY FEDEX	DATE/TIME 5/25/12 0908	RECEIVED BY [illegible] DeLaCruz	DATE/TIME 5/25/12 0908
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other _____

COMMENTS
All containers are 1 Liter silco canisters

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

2 of 2

6 0122196 AFT 5/29/12

Sample Condition Upon Receipt

Pace Analytical www.pacelabs.com

Client Name: CRA NM

Project #

4610
4717

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 8896 3832 4691

Pace Shipping Label Used? ☑ Yes ☐ No

4706
4728

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date:
Proj. Name: 6/7

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-191 / T-194

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.9/1.9/2.0/2.6/2.1

Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: PVS 5-26-12

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☐No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9. one Amber broke for 202-2 and 02492-1.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☐N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☐N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 043012-3		PVS-26-12
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	16. ~~3 of 3~~ 6 of 6 PW-074922-052312-CM-202-2 DGH
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: Parent sample is 03250-2, no DRO volume for 25-2, fatrok headspace per client 5/29/12 AFT

Project Manager Review: AFT Date: 5/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

60122196

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 12Apr2012 Page 1 of 1
	Document Number: F-MN-A-106-rev.03	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: CRA-NM/Pace RS Project #:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact ~~☐ yes~~ 05.25 ☒ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other

Optional
Proj. Due Date:
Proj. Name:

Temperature (TO17 and TO13 samples only): Temp should be above freezing to 6°C

Tracking #: 4569 1403 6075, 8064

Comments:

Date and Initials of person examining contents: 05.25.12

Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☒ No ☐ N/A	7
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10
Media: 10 cans 10 gauges		11.
Sample Labels match COC	☒ Yes ☐ No ☐ N/A	12. 03250(2)-1 sample tag lists time as 12:30 not 1200 1 can has void on sample label
Samples Received:		

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
CM-02816-2	Pace 1169				
11-03259-2	11 2495				
11-202-2	11 2418				
11-25-2	11 2476				
11-03423P1-2	11 2480				
11-03250(2)-1	11 0919				
11-03250-2	11 1319				
11-02992-1	11 1314				
11-CM-Dup	11 2419				
Void	11 2402				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
02992 - ROBINS, HARVEY

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
02992	GW-074922-052412-CM-02992-1	05/24/2012	567	NA	< 0.50	< 50.0	< 5.0	< 5.0	< 5.0	< 15.0	< 50.0	< 5.0	6.6	< 100	221,000	10,700	2,360	180,000	254	1,420	< 0.050	< 1.0	7.4	832
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
02992	GW-074922-052412-CM-02992-1	05/24/2012	-102.9	-13.49

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen Chemical mol. %	Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
								Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰									
02992	A-074922-052412-CM-02992-1	05/24/2012	0.0023	–	0.987	21.59	77.30	0.12	–	–	0.0017	–	–	–	–	–	–	–	–	–	–	–	–	0	1.002

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
02992	A-074922-052412-CM-02992-1	05/24/2012	< 0.44	< 0.0031

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
02992 - ROBINS, HARVEY

AIR TO-15 RESULTS	
Well ID→	02992
Sample ID→	A-074922-052412-CM-02992-1
Date→	5/24/2012
Constituents ↓	Results in ug/m3
Acetone	79.0
Benzene	< 3.4
Bromodichloromethane	< 7.2
Bromomethane	< 4.1
2-Butanone	7,470
Carbon disulfide	< 3.3
Carbon tetrachloride	< 6.7
Chloroethane	< 2.8
Chloroform	< 5.2
Chloromethane	< 2.2
Cyclohexane	20.3
Dichlorodifluoromethane	< 5.3
1,4-Dichlorobenzene	8.1
1,2 - Dichloroethane	< 4.3
1,1 - Dichloroethene	< 4.2
cis - 1,2 - Dichloroethene	< 4.2
trans - 1,2 - Dichloroethene	< 4.2
trans - 1,3 - Dichloropropene	< 4.9
Dichlorotetrafluorethane	< 7.5
Ethanol	18.7
Ethylbenzene	< 4.6
4 -Ethyltoluene	< 5.2
n-Heptane	13.6
Hexachloro-1,3-butadiene	< 11.4
n-Hexane	< 3.8
Methylene Chloride	< 3.7
4-methyl-2-pentanone	7.5
Naphthalene	< 5.6
2-propanol	3.3
Styrene	< 4.5
1,1,2,2-Tetrachloroethane	< 7.3
Tetrahydrofuran	3,880
Toluene	195
1,2,4-Trichlorobenzene	< 7.9
1,1,2-Trichloroethane	< 5.8
Trichloroethene	< 5.7
Trichlorofluoromethane	< 6.0
1,1,2-Trichlorotrifluoroethane	< 8.2
1,2,4-Trimethylbenzene	< 5.2
1,3,5-Trimethylbenzene	< 5.2
Vinyl Chloride	< 2.7
THC as Gas	15,400
Xylenes	< 13.9

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume

Sample ID
A-074922-052412-CM-02992-1
GW-074922-052412-CM-02992-1

Resident
Harvey Robbins

RCVD AUG 22 '12

OIL CONS. DIV.

DIST. 3

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July 19, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: Project 1 Area 6
Pace Project No.: 60125292

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between May 25, 2012 and May 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: Project 1 Area 6
Pace Project No.: 60125292

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: Project 1 Area 6
Pace Project No.: 60125292

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122079008	A-074922-052412-CM-02992-1	Air	05/24/12 15:15	05/25/12 09:08
60122079018	GW-074922-052412-CM-02992-1	Water	05/24/12 14:10	05/26/12 10:00
60122228008	A-074922-052412-CM-02992-1	Air	05/24/12 15:15	05/25/12 10:01

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SAMPLE ANALYTE COUNT

Project: Project 1 Area 6
Pace Project No.: 60125292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122079018	**GW-074922-052412-CM-02992-1**	RSK 175	SK4	1	PASI-M
		EPA 8015B	SDR	3	PASI-K
		EPA 6010	SMW	5	PASI-K
		EPA 5030B/8260	JTS	70	PASI-K
		SM 2320B	JMM	2	PASI-K
		SM 2540C	JML	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	OL	3	PASI-K
60122228008	**A-074922-052412-CM-02992-1**	TO-15	DR1	61	PASI-M

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/15342

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- A-074922-052412-CM-02992-1 (Lab ID: 60122228008)
  - 2-Butanone (MEK)
  - Ethanol
  - Tetrahydrofuran
- LCS (Lab ID: 1243211)
  - Carbon disulfide
  - Ethanol

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/15342

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1243211)
  - Hexachloro-1,3-butadiene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/15342

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1243211)
  - Hexachloro-1,3-butadiene

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/12529

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18210

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1006348)
  - Sodium, Dissolved
- MSD (Lab ID: 1006349)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/46098

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/35356

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 1008176)
  - Alkalinity,Bicarbonate (CaCO3)

Additional Comments:

Analyte Comments:

QC Batch: WET/35356

B: Analyte was detected in the associated method blank.
- GW-074922-052412-CM-02992-1 (Lab ID: 60122079018)
  - Alkalinity,Bicarbonate (CaCO3)
  - Alkalinity, Total as CaCO3

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 1 Area 6
Pace Project No.: 60125292

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Project 1 Area 6
Pace Project No.: 60125292

Sample: GW-074922-052412-CM-02992-1 **Lab ID: 60122079018** Collected: 05/24/12 14:10 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**567**	ug/L	6.6	0.69	1		05/31/12 16:00	74-82-8	
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.097	1	05/29/12 00:00	06/05/12 00:56		
Surrogates									
p-Terphenyl (S)	75	%	40-118		1	05/29/12 00:00	06/05/12 00:56	92-94-4	
n-Tetracosane (S)	86	%	36-120		1	05/29/12 00:00	06/05/12 00:56	646-31-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	ND	ug/L	100	1.8	1	05/31/12 15:50	06/06/12 13:46	7440-42-8	
Calcium, Dissolved	**221000**	ug/L	100	35.8	1	05/31/12 15:50	06/06/12 13:46	7440-70-2	
Magnesium, Dissolved	**10700**	ug/L	50.0	17.2	1	05/31/12 15:50	06/06/12 13:46	7439-95-4	
Potassium, Dissolved	**2360**	ug/L	500	64.1	1	05/31/12 15:50	06/06/12 13:46	7440-09-7	
Sodium, Dissolved	**180000**	ug/L	500	40.1	1	05/31/12 15:50	06/06/12 13:46	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	50.0	7.0	5		06/07/12 19:58	67-64-1	
Benzene	ND	ug/L	5.0	0.25	5		06/07/12 19:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	0.55	5		06/07/12 19:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	0.40	5		06/07/12 19:58	75-27-4	
Bromoform	ND	ug/L	5.0	0.50	5		06/07/12 19:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.85	5		06/07/12 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	2.8	5		06/07/12 19:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	0.35	5		06/07/12 19:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	0.35	5		06/07/12 19:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	0.70	5		06/07/12 19:58	98-06-6	
Carbon disulfide	ND	ug/L	25.0	0.15	5		06/07/12 19:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.10	5		06/07/12 19:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	0.20	5		06/07/12 19:58	108-90-7	
Chloroethane	ND	ug/L	5.0	0.40	5		06/07/12 19:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.60	5		06/07/12 19:58	67-66-3	
Chloromethane	ND	ug/L	5.0	0.35	5		06/07/12 19:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	0.25	5		06/07/12 19:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	0.35	5		06/07/12 19:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	1.0	5		06/07/12 19:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	0.25	5		06/07/12 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	0.30	5		06/07/12 19:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	0.30	5		06/07/12 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.25	5		06/07/12 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	0.40	5		06/07/12 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.20	5		06/07/12 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.25	5		06/07/12 19:58	107-06-2	

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ANALYTICAL RESULTS

Project: Project 1 Area 6
Pace Project No.: 60125292

Sample: GW-074922-052412-CM-02992-1 **Lab ID: 60122079018** Collected: 05/24/12 14:10 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2-Dichloroethene (Total)	ND	ug/L	5.0	0.55	5		06/07/12 19:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	0.40	5		06/07/12 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.35	5		06/07/12 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.20	5		06/07/12 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.55	5		06/07/12 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	0.15	5		06/07/12 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	0.35	5		06/07/12 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	0.25	5		06/07/12 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	0.10	5		06/07/12 19:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	0.55	5		06/07/12 19:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	0.35	5		06/07/12 19:58	87-68-3	
2-Hexanone	ND	ug/L	50.0	0.90	5		06/07/12 19:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	0.40	5		06/07/12 19:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	99-87-6	
Methylene chloride	**6.6**	ug/L	5.0	0.80	5		06/07/12 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	0.85	5		06/07/12 19:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	0.25	5		06/07/12 19:58	1634-04-4	
Naphthalene	ND	ug/L	50.0	0.25	5		06/07/12 19:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	0.55	5		06/07/12 19:58	103-65-1	
Styrene	ND	ug/L	5.0	0.20	5		06/07/12 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.20	5		06/07/12 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	0.25	5		06/07/12 19:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	127-18-4	
Toluene	ND	ug/L	5.0	0.90	5		06/07/12 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	0.35	5		06/07/12 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.25	5		06/07/12 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	0.25	5		06/07/12 19:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.30	5		06/07/12 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	0.35	5		06/07/12 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	0.70	5		06/07/12 19:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.0	5		06/07/12 19:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	0.70	5		06/07/12 19:58	108-67-8	
Vinyl chloride	ND	ug/L	5.0	0.30	5		06/07/12 19:58	75-01-4	
Xylene (Total)	ND	ug/L	15.0	2.4	5		06/07/12 19:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	87-113		5		06/07/12 19:58	460-00-4	
Dibromofluoromethane (S)	100	%	86-112		5		06/07/12 19:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119		5		06/07/12 19:58	17060-07-0	
Toluene-d8 (S)	101	%	90-110		5		06/07/12 19:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	5		06/07/12 19:58		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**254**	mg/L	20.0	3.8	1		06/04/12 14:15		B

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ANALYTICAL RESULTS

Project: Project 1 Area 6
Pace Project No.: 60125292

Sample: GW-074922-052412-CM-02992-1 **Lab ID: 60122079018** Collected: 05/24/12 14:10 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**254**	mg/L	20.0	3.8	1		06/04/12 14:15		B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1420**	mg/L	5.0	5.0	1		05/31/12 17:03		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		05/29/12 16:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.059	1		06/08/12 00:54	24959-67-9	
Chloride	**7.4**	mg/L	1.0	0.056	1		06/08/12 00:54	16887-00-6	
Sulfate	**832**	mg/L	100	15.0	100		06/08/12 14:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Project 1 Area 6
Pace Project No.: 60125292

Sample: A-074922-052412-CM-02992-1 **Lab ID: 60122228008** Collected: 05/24/12 15:15 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
Acetone	**79.0**	ug/m3	2.5	1.3	2.1		06/01/12 19:59	67-64-1	
Benzene	ND	ug/m3	3.4	1.7	2.1		06/01/12 19:59	71-43-2	
Benzyl chloride	ND	ug/m3	5.5	2.8	2.1		06/01/12 19:59	100-44-7	
Bromodichloromethane	ND	ug/m3	7.2	3.6	2.1		06/01/12 19:59	75-27-4	
Bromoform	ND	ug/m3	11.0	5.5	2.1		06/01/12 19:59	75-25-2	
Bromomethane	ND	ug/m3	4.1	2.1	2.1		06/01/12 19:59	74-83-9	
1,3-Butadiene	ND	ug/m3	2.4	1.2	2.1		06/01/12 19:59	106-99-0	
2-Butanone (MEK)	**7470**	ug/m3	1010	504	672		06/04/12 17:30	78-93-3	SS
Carbon disulfide	ND	ug/m3	3.3	1.7	2.1		06/01/12 19:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	6.7	3.4	2.1		06/01/12 19:59	56-23-5	
Chlorobenzene	ND	ug/m3	4.9	2.5	2.1		06/01/12 19:59	108-90-7	
Chloroethane	ND	ug/m3	2.8	1.4	2.1		06/01/12 19:59	75-00-3	
Chloroform	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:59	67-66-3	
Chloromethane	ND	ug/m3	2.2	1.1	2.1		06/01/12 19:59	74-87-3	
Cyclohexane	**20.3**	ug/m3	3.7	1.8	2.1		06/01/12 19:59	110-82-7	
Dibromochloromethane	ND	ug/m3	9.1	4.5	2.1		06/01/12 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	8.2	4.1	2.1		06/01/12 19:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/01/12 19:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/01/12 19:59	541-73-1	
1,4-Dichlorobenzene	**8.1**	ug/m3	6.4	3.2	2.1		06/01/12 19:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	5.3	2.6	2.1		06/01/12 19:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4.3	2.2	2.1		06/01/12 19:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	4.3	2.2	2.1		06/01/12 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	4.2	2.1	2.1		06/01/12 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	4.2	2.1	2.1		06/01/12 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	4.2	2.1	2.1		06/01/12 19:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.9	2.5	2.1		06/01/12 19:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.9	2.4	2.1		06/01/12 19:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.9	2.4	2.1		06/01/12 19:59	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	7.5	3.7	2.1		06/01/12 19:59	76-14-2	
Ethanol	**18.7**	ug/m3	2.0	1.0	2.1		06/01/12 19:59	64-17-5	SS
Ethyl acetate	ND	ug/m3	3.8	1.9	2.1		06/01/12 19:59	141-78-6	
Ethylbenzene	ND	ug/m3	4.6	2.3	2.1		06/01/12 19:59	100-41-4	
4-Ethyltoluene	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:59	622-96-8	
n-Heptane	**13.6**	ug/m3	4.4	2.2	2.1		06/01/12 19:59	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	11.4	5.7	2.1		06/01/12 19:59	87-68-3	
n-Hexane	ND	ug/m3	3.8	1.9	2.1		06/01/12 19:59	110-54-3	
2-Hexanone	ND	ug/m3	4.4	2.2	2.1		06/01/12 19:59	591-78-6	
Methylene Chloride	ND	ug/m3	3.7	1.9	2.1		06/01/12 19:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.5**	ug/m3	4.4	2.2	2.1		06/01/12 19:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.7	3.8	2.1		06/01/12 19:59	1634-04-4	
Naphthalene	ND	ug/m3	5.6	2.8	2.1		06/01/12 19:59	91-20-3	
2-Propanol	**3.3**	ug/m3	2.6	1.3	2.1		06/01/12 19:59	67-63-0	
Propylene	ND	ug/m3	7.4	3.7	2.1		06/01/12 19:59	115-07-1	
Styrene	ND	ug/m3	4.5	2.3	2.1		06/01/12 19:59	100-42-5	

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ANALYTICAL RESULTS

Project: Project 1 Area 6
Pace Project No.: 60125292

Sample: A-074922-052412-CM-02992-1 **Lab ID: 60122228008** Collected: 05/24/12 15:15 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	7.3	3.7	2.1		06/01/12 19:59	79-34-5	
Tetrachloroethene	ND	ug/m3	7.2	3.6	2.1		06/01/12 19:59	127-18-4	
Tetrahydrofuran	**3880**	ug/m3	1010	504	672		06/04/12 17:30	109-99-9	SS
Toluene	**195**	ug/m3	4.0	2.0	2.1		06/01/12 19:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7.9	4.0	2.1		06/01/12 19:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.8	2.9	2.1		06/01/12 19:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	5.8	2.9	2.1		06/01/12 19:59	79-00-5	
Trichloroethene	ND	ug/m3	5.7	2.9	2.1		06/01/12 19:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	6.0	3.0	2.1		06/01/12 19:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	8.2	4.1	2.1		06/01/12 19:59	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	5.2	2.6	2.1		06/01/12 19:59	108-67-8	
Vinyl acetate	ND	ug/m3	3.8	1.9	2.1		06/01/12 19:59	108-05-4	
Vinyl chloride	ND	ug/m3	2.7	1.4	2.1		06/01/12 19:59	75-01-4	
m&p-Xylene	ND	ug/m3	9.3	4.6	2.1		06/01/12 19:59	179601-23-1	
o-Xylene	ND	ug/m3	4.6	2.3	2.1		06/01/12 19:59	95-47-6	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: AIR/15000
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60122079018

METHOD BLANK: 1207105 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	6.6	05/31/12 11:19	

LABORATORY CONTROL SAMPLE & LCSD: 1207106 1207107

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	60.1	59.2	99	98	70-130	2	30	

SAMPLE DUPLICATE: 1208486

Parameter	Units	92119176037 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	92.7	78.3	17	30	

SAMPLE DUPLICATE: 1208946

Parameter	Units	5063487001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	ND	1.2J		30	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: AIR/15342
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR - AMBIENT
Associated Lab Samples: 60122228008

METHOD BLANK: 1243210
Matrix: Air
Associated Lab Samples: 60122228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	2.8	06/01/12 11:46	
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.5	06/01/12 11:46	
1,1,2-Trichloroethane	ug/m3	ND	2.8	06/01/12 11:46	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	3.9	06/01/12 11:46	
1,1-Dichloroethane	ug/m3	ND	2.1	06/01/12 11:46	
1,1-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	06/01/12 11:46	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	06/01/12 11:46	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/01/12 11:46	
1,2-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
1,2-Dichloroethane	ug/m3	ND	2.1	06/01/12 11:46	
1,2-Dichloropropane	ug/m3	ND	2.4	06/01/12 11:46	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	06/01/12 11:46	
1,3-Butadiene	ug/m3	ND	1.1	06/01/12 11:46	
1,3-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
1,4-Dichlorobenzene	ug/m3	ND	3.1	06/01/12 11:46	
2-Butanone (MEK)	ug/m3	ND	1.5	06/01/12 11:46	
2-Hexanone	ug/m3	ND	2.1	06/01/12 11:46	
2-Propanol	ug/m3	ND	1.2	06/01/12 11:46	
4-Ethyltoluene	ug/m3	ND	2.5	06/01/12 11:46	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	06/01/12 11:46	
Acetone	ug/m3	ND	1.2	06/01/12 11:46	
Benzene	ug/m3	ND	1.6	06/01/12 11:46	
Benzyl chloride	ug/m3	ND	2.6	06/01/12 11:46	
Bromodichloromethane	ug/m3	ND	3.4	06/01/12 11:46	
Bromoform	ug/m3	ND	5.2	06/01/12 11:46	
Bromomethane	ug/m3	ND	2.0	06/01/12 11:46	
Carbon disulfide	ug/m3	ND	1.6	06/01/12 11:46	
Carbon tetrachloride	ug/m3	ND	3.2	06/01/12 11:46	
Chlorobenzene	ug/m3	ND	2.3	06/01/12 11:46	
Chloroethane	ug/m3	ND	1.3	06/01/12 11:46	
Chloroform	ug/m3	ND	2.5	06/01/12 11:46	
Chloromethane	ug/m3	ND	1.0	06/01/12 11:46	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/01/12 11:46	
Cyclohexane	ug/m3	ND	1.8	06/01/12 11:46	
Dibromochloromethane	ug/m3	ND	4.3	06/01/12 11:46	
Dichlorodifluoromethane	ug/m3	ND	2.5	06/01/12 11:46	
Dichlorotetrafluoroethane	ug/m3	ND	3.6	06/01/12 11:46	
Ethanol	ug/m3	ND	0.96	06/01/12 11:46	
Ethyl acetate	ug/m3	ND	1.8	06/01/12 11:46	
Ethylbenzene	ug/m3	ND	2.2	06/01/12 11:46	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	06/01/12 11:46	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

METHOD BLANK: 1243210 Matrix: Air

Associated Lab Samples: 60122228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	4.4	06/01/12 11:46	
Methyl-tert-butyl ether	ug/m3	ND	3.7	06/01/12 11:46	
Methylene Chloride	ug/m3	ND	1.8	06/01/12 11:46	
n-Heptane	ug/m3	ND	2.1	06/01/12 11:46	
n-Hexane	ug/m3	ND	1.8	06/01/12 11:46	
Naphthalene	ug/m3	ND	2.7	06/01/12 11:46	
o-Xylene	ug/m3	ND	2.2	06/01/12 11:46	
Propylene	ug/m3	ND	3.5	06/01/12 11:46	
Styrene	ug/m3	ND	2.2	06/01/12 11:46	
Tetrachloroethene	ug/m3	ND	3.4	06/01/12 11:46	
Tetrahydrofuran	ug/m3	ND	1.5	06/01/12 11:46	
Toluene	ug/m3	ND	1.9	06/01/12 11:46	
trans-1,2-Dichloroethene	ug/m3	ND	2.0	06/01/12 11:46	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/01/12 11:46	
Trichloroethene	ug/m3	ND	2.7	06/01/12 11:46	
Trichlorofluoromethane	ug/m3	ND	2.9	06/01/12 11:46	
Vinyl acetate	ug/m3	ND	1.8	06/01/12 11:46	
Vinyl chloride	ug/m3	ND	1.3	06/01/12 11:46	

LABORATORY CONTROL SAMPLE: 1243211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.3	114	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.0	109	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	59.4	107	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	77.7	100	65-132	
1,1-Dichloroethane	ug/m3	41.2	44.6	108	67-132	
1,1-Dichloroethene	ug/m3	40.3	46.1	114	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	102	135	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	59.1	118	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	85.9	110	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	68.7	112	71-132	
1,2-Dichloroethane	ug/m3	41.2	48.8	119	70-131	
1,2-Dichloropropane	ug/m3	47	47.6	101	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	56.6	113	70-133	
1,3-Butadiene	ug/m3	22.5	22.0	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	70.2	115	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	67.9	111	72-131	
2-Butanone (MEK)	ug/m3	30	29.3	98	69-131	
2-Hexanone	ug/m3	41.7	41.9	100	71-134	
2-Propanol	ug/m3	25	21.7	87	72-132	
4-Ethyltoluene	ug/m3	50	56.8	114	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	41.4	99	69-135	
Acetone	ug/m3	24.2	20.3	84	61-139	
Benzene	ug/m3	32.5	35.2	108	69-134	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

LABORATORY CONTROL SAMPLE: 1243211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	56.2	107	70-129	
Bromodichloromethane	ug/m3	68.2	81.7	120	71-130	
Bromoform	ug/m3	105	120	114	70-130	
Bromomethane	ug/m3	39.5	41.4	105	69-125	
Carbon disulfide	ug/m3	31.7	33.8	107	66-131	SS
Carbon tetrachloride	ug/m3	64	70.3	110	68-128	
Chlorobenzene	ug/m3	46.8	54.5	116	75-128	
Chloroethane	ug/m3	26.8	27.8	104	66-131	
Chloroform	ug/m3	49.7	54.9	111	68-132	
Chloromethane	ug/m3	21	21.0	100	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	41.2	102	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	49.9	108	74-134	
Cyclohexane	ug/m3	35	34.9	100	67-136	
Dibromochloromethane	ug/m3	86.6	88.6	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	54.5	108	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	73.5	103	66-130	
Ethanol	ug/m3	19.2	17.9	93	69-131	SS
Ethyl acetate	ug/m3	36.6	36.3	99	71-131	
Ethylbenzene	ug/m3	44.2	51.9	118	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	188	173	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	92.1	104	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	39.7	108	70-132	
Methylene Chloride	ug/m3	35.3	34.6	98	73-134	
n-Heptane	ug/m3	41.7	40.5	97	70-134	
n-Hexane	ug/m3	35.8	35.2	98	65-133	
Naphthalene	ug/m3	53.3	72.2	135	57-150	
o-Xylene	ug/m3	44.2	51.6	117	69-138	
Propylene	ug/m3	17.5	16.9	97	70-134	
Styrene	ug/m3	43.3	47.8	110	72-132	
Tetrachloroethene	ug/m3	69	77.4	112	70-130	
Tetrahydrofuran	ug/m3	30	28.5	95	74-128	
Toluene	ug/m3	38.3	42.9	112	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	42.7	106	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	47.6	103	73-130	
Trichloroethene	ug/m3	54.6	58.3	107	72-131	
Trichlorofluoromethane	ug/m3	57.1	58.8	103	66-129	
Vinyl acetate	ug/m3	35.8	35.1	98	71-131	
Vinyl chloride	ug/m3	26	26.4	102	70-131	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: MPRP/18210
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60122079018

METHOD BLANK: 1006346 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/06/12 13:08	
Calcium, Dissolved	ug/L	ND	100	06/06/12 13:08	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 13:08	
Potassium, Dissolved	ug/L	ND	500	06/06/12 13:08	
Sodium, Dissolved	ug/L	ND	500	06/06/12 13:08	

LABORATORY CONTROL SAMPLE: 1006347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	949	95	80-120	
Calcium, Dissolved	ug/L	10000	9260	93	80-120	
Magnesium, Dissolved	ug/L	10000	9950	99	80-120	
Potassium, Dissolved	ug/L	10000	9960	100	80-120	
Sodium, Dissolved	ug/L	10000	9670	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006348 1006349

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	119	1000	1000	1070	1090	95	97	75-125	2	20	
Calcium, Dissolved	ug/L	193000	10000	10000	201000	205000	76	120	75-125	2	20	
Magnesium, Dissolved	ug/L	11300	10000	10000	20700	21000	94	97	75-125	1	20	
Potassium, Dissolved	ug/L	2890	10000	10000	13000	13200	101	103	75-125	2	20	
Sodium, Dissolved	ug/L	306000	10000	10000	291000	296000	-154	-106	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: MSV/46098
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122079018

METHOD BLANK: 1009791
Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1-Dichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,1-Dichloroethene	ug/L	ND	1.0	06/07/12 16:42	
1,1-Dichloropropene	ug/L	ND	1.0	06/07/12 16:42	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/07/12 16:42	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/07/12 16:42	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichloroethane	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/07/12 16:42	
1,2-Dichloropropane	ug/L	ND	1.0	06/07/12 16:42	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/07/12 16:42	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
1,3-Dichloropropane	ug/L	ND	1.0	06/07/12 16:42	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
2,2-Dichloropropane	ug/L	ND	1.0	06/07/12 16:42	
2-Butanone (MEK)	ug/L	ND	10.0	06/07/12 16:42	
2-Chlorotoluene	ug/L	ND	1.0	06/07/12 16:42	
2-Hexanone	ug/L	ND	10.0	06/07/12 16:42	
4-Chlorotoluene	ug/L	ND	1.0	06/07/12 16:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/07/12 16:42	
Acetone	ug/L	ND	10.0	06/07/12 16:42	
Benzene	ug/L	ND	1.0	06/07/12 16:42	
Bromobenzene	ug/L	ND	1.0	06/07/12 16:42	
Bromochloromethane	ug/L	ND	1.0	06/07/12 16:42	
Bromodichloromethane	ug/L	ND	1.0	06/07/12 16:42	
Bromoform	ug/L	ND	1.0	06/07/12 16:42	
Bromomethane	ug/L	ND	1.0	06/07/12 16:42	
Carbon disulfide	ug/L	ND	5.0	06/07/12 16:42	
Carbon tetrachloride	ug/L	ND	1.0	06/07/12 16:42	
Chlorobenzene	ug/L	ND	1.0	06/07/12 16:42	
Chloroethane	ug/L	ND	1.0	06/07/12 16:42	
Chloroform	ug/L	ND	1.0	06/07/12 16:42	
Chloromethane	ug/L	ND	1.0	06/07/12 16:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/07/12 16:42	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/07/12 16:42	
Dibromochloromethane	ug/L	ND	1.0	06/07/12 16:42	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

METHOD BLANK: 1009791 Matrix: Water

Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	06/07/12 16:42	
Dichlorodifluoromethane	ug/L	ND	1.0	06/07/12 16:42	
Ethylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/07/12 16:42	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/07/12 16:42	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/07/12 16:42	
Methylene chloride	ug/L	ND	1.0	06/07/12 16:42	
n-Butylbenzene	ug/L	ND	1.0	06/07/12 16:42	
n-Propylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Naphthalene	ug/L	ND	10.0	06/07/12 16:42	
p-Isopropyltoluene	ug/L	ND	1.0	06/07/12 16:42	
sec-Butylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Styrene	ug/L	ND	1.0	06/07/12 16:42	
tert-Butylbenzene	ug/L	ND	1.0	06/07/12 16:42	
Tetrachloroethene	ug/L	ND	1.0	06/07/12 16:42	
Toluene	ug/L	ND	1.0	06/07/12 16:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/07/12 16:42	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/07/12 16:42	
Trichloroethene	ug/L	ND	1.0	06/07/12 16:42	
Trichlorofluoromethane	ug/L	ND	1.0	06/07/12 16:42	
Vinyl chloride	ug/L	ND	1.0	06/07/12 16:42	
Xylene (Total)	ug/L	ND	3.0	06/07/12 16:42	
1,2-Dichloroethane-d4 (S)	%	101	82-119	06/07/12 16:42	
4-Bromofluorobenzene (S)	%	103	87-113	06/07/12 16:42	
Dibromofluoromethane (S)	%	99	86-112	06/07/12 16:42	
Toluene-d8 (S)	%	103	90-110	06/07/12 16:42	

LABORATORY CONTROL SAMPLE: 1009792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.4	102	81-121	
1,1,1-Trichloroethane	ug/L	20	18.7	94	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	78-124	
1,1,2-Trichloroethane	ug/L	20	18.2	91	79-121	
1,1-Dichloroethane	ug/L	20	17.0	85	73-119	
1,1-Dichloroethene	ug/L	20	17.8	89	75-120	
1,1-Dichloropropene	ug/L	20	19.2	96	79-123	
1,2,3-Trichlorobenzene	ug/L	20	20.3	101	73-122	
1,2,3-Trichloropropane	ug/L	20	18.9	94	77-124	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	75-120	
1,2,4-Trimethylbenzene	ug/L	20	18.2	91	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.4	107	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	85-121	
1,2-Dichlorobenzene	ug/L	20	19.1	95	82-115	
1,2-Dichloroethane	ug/L	20	21.3	107	77-125	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

LABORATORY CONTROL SAMPLE: 1009792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	36.6	92	79-120	
1,2-Dichloropropane	ug/L	20	19.1	95	83-119	
1,3,5-Trimethylbenzene	ug/L	20	17.4	87	79-121	
1,3-Dichlorobenzene	ug/L	20	19.0	95	79-117	
1,3-Dichloropropane	ug/L	20	18.9	94	78-116	
1,4-Dichlorobenzene	ug/L	20	19.3	96	83-115	
2,2-Dichloropropane	ug/L	20	16.1	81	66-123	
2-Butanone (MEK)	ug/L	100	112	112	43-165	
2-Chlorotoluene	ug/L	20	17.8	89	81-117	
2-Hexanone	ug/L	100	113	113	47-159	
4-Chlorotoluene	ug/L	20	19.0	95	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	71-129	
Acetone	ug/L	100	90.1	90	18-192	
Benzene	ug/L	20	19.1	96	82-117	
Bromobenzene	ug/L	20	19.5	97	83-116	
Bromochloromethane	ug/L	20	19.5	98	79-121	
Bromodichloromethane	ug/L	20	18.9	94	79-114	
Bromoform	ug/L	20	20.1	101	78-121	
Bromomethane	ug/L	20	19.3	97	36-146	
Carbon disulfide	ug/L	20	16.8	84	75-138	
Carbon tetrachloride	ug/L	20	19.0	95	80-123	
Chlorobenzene	ug/L	20	19.3	97	83-121	
Chloroethane	ug/L	20	18.0	90	42-166	
Chloroform	ug/L	20	18.5	93	82-116	
Chloromethane	ug/L	20	19.2	96	32-127	
cis-1,2-Dichloroethene	ug/L	20	16.9	84	80-119	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	76-119	
Dibromochloromethane	ug/L	20	20.0	100	81-123	
Dibromomethane	ug/L	20	19.3	97	79-123	
Dichlorodifluoromethane	ug/L	20	13.1	65	10-163	
Ethylbenzene	ug/L	20	18.7	93	79-121	
Hexachloro-1,3-butadiene	ug/L	20	17.7	89	78-125	
Isopropylbenzene (Cumene)	ug/L	20	20.3	102	80-120	
Methyl-tert-butyl ether	ug/L	20	19.0	95	78-119	
Methylene chloride	ug/L	20	18.6	93	75-118	
n-Butylbenzene	ug/L	20	18.1	91	80-126	
n-Propylbenzene	ug/L	20	16.8	84	83-116	
Naphthalene	ug/L	20	21.7	109	66-133	
p-Isopropyltoluene	ug/L	20	18.2	91	77-120	
sec-Butylbenzene	ug/L	20	18.0	90	81-120	
Styrene	ug/L	20	19.7	99	84-115	
tert-Butylbenzene	ug/L	20	20.1	100	80-117	
Tetrachloroethene	ug/L	20	17.6	88	80-124	
Toluene	ug/L	20	19.3	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	79-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	76-118	
Trichloroethene	ug/L	20	18.7	93	76-122	
Trichlorofluoromethane	ug/L	20	17.3	87	72-120	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

LABORATORY CONTROL SAMPLE: 1009792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	17.1	85	57-163	
Xylene (Total)	ug/L	60	57.1	95	75-120	
1,2-Dichloroethane-d4 (S)	%			101	82-119	
4-Bromofluorobenzene (S)	%			99	87-113	
Dibromofluoromethane (S)	%			100	86-112	
Toluene-d8 (S)	%			101	90-110	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: OEXT/33332
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60122079018

METHOD BLANK: 1005185 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	06/04/12 22:19	
n-Tetracosane (S)	%	78	36-120	06/04/12 22:19	
p-Terphenyl (S)	%	78	40-118	06/04/12 22:19	

LABORATORY CONTROL SAMPLE: 1005186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	82	48-119	
n-Tetracosane (S)	%			67	36-120	
p-Terphenyl (S)	%			73	40-118	



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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: WET/35356
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60122079018

METHOD BLANK: 1008174 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	06/04/12 14:15	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	06/04/12 14:15	

LABORATORY CONTROL SAMPLE: 1008175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	536	107	90-110	
Alkalinity,Bicarbonate (CaCO3)	mg/L		ND			

SAMPLE DUPLICATE: 1008176

Parameter	Units	60121975002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L		275	4	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L		185	11	9	D6

SAMPLE DUPLICATE: 1008177

Parameter	Units	60122183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	444	456	3	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	444	456	3	9	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: WET/35313 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122079018

METHOD BLANK: 1006706 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/31/12 17:01	

SAMPLE DUPLICATE: 1006707

Parameter	Units	60122099002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1820	1600	13	17	

SAMPLE DUPLICATE: 1006708

Parameter	Units	60122183002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	477	452	5	17	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: WET/35258
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60122079018

METHOD BLANK: 1005278 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/29/12 16:10	

LABORATORY CONTROL SAMPLE: 1005279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 1005280

Parameter	Units	60122079010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.56	111	75-125	

SAMPLE DUPLICATE: 1005281

Parameter	Units	60122079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

QC Batch: WETA/20466 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60122079018

METHOD BLANK: 1010005 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	06/07/12 17:12	
Chloride	mg/L	ND	1.0	06/07/12 17:12	
Sulfate	mg/L	ND	1.0	06/07/12 17:12	

METHOD BLANK: 1010613 Matrix: Water
Associated Lab Samples: 60122079018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/08/12 09:41	
Sulfate	mg/L	ND	1.0	06/08/12 09:41	

LABORATORY CONTROL SAMPLE: 1010006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.1	102	90-110	
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1010614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1010007 1010008

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.0	4.8	100	97	75-119	3	10	
Chloride	mg/L	8.1	5	5	12.3	12.4	85	87	64-118	1	12	
Sulfate	mg/L	1080	1000	1000	2070	2060	99	98	61-119	0	10	

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QUALITY CONTROL DATA

Project: Project 1 Area 6
Pace Project No.: 60125292

MATRIX SPIKE SAMPLE: 1010009

Parameter	Units	60122079014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	5	4.8	88	75-119	
Chloride	mg/L	5.6	5	10	89	64-118	
Sulfate	mg/L	2610	2500	5610	120	61-119	M6

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Project 1 Area 6
Pace Project No.: 60125292

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/33332

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/46098

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	107.02 TIMES SPIKE AMOUNT.
2e	299.26 TIMES SPIKE AMOUNT
B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALIFIERS

Project: Project 1 Area 6
Pace Project No.: 60125292

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Project 1 Area 6
Pace Project No.: 60125292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122079018	**GW-074922-052412-CM-02992-1**	RSK 175	AIR/15000		
60122228008	**A-074922-052412-CM-02992-1**	TO-15	AIR/15342		
60122079018	**GW-074922-052412-CM-02992-1**	EPA 3510C	OEXT/33332	EPA 8015B	GCSV/12529
60122079018	**GW-074922-052412-CM-02992-1**	EPA 3010	MPRP/18210	EPA 6010	ICP/15298
60122079018	**GW-074922-052412-CM-02992-1**	EPA 5030B/8260	MSV/46098		
60122079018	**GW-074922-052412-CM-02992-1**	SM 2320B	WET/35356		
60122079018	**GW-074922-052412-CM-02992-1**	SM 2540C	WET/35313		
60122079018	**GW-074922-052412-CM-02992-1**	SM 4500-S-2 D	WET/35258		
60122079018	**GW-074922-052412-CM-02992-1**	EPA 300.0	WETA/20466		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 249469 Job Number: 18327

Submitter Sample Name: GW-074922-052412-CM-02992-1

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan County, NM

Depth/Formation:

Container Type: 60ml Bottle

Sample Collected: 5/24/2012 Results Reported: 6/04/2012

δD of water	----------	-102.9 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-13.49 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks:

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 249415 Job #: 18320
Sample Name: A-074922-052412-CM-02992-1 Co. Lab#:
Company: Pace Analytical
Date Sampled: 5/24/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location: San Juan County, NM
Formation/Depth:
Sampling Point:
Date Received: 5/29/2012 Date Reported: 7/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	0.0023			
Hydrogen	nd			
Argon	0.987			
Oxygen	21.59			
Nitrogen	77.30			
Carbon Dioxide	0.12			
Methane	0.0017			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.002

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	D052505-08							
Client Sample I.D.:	60122079008 / A-074922-052412-CM 02992-1							
Date Sampled:	05/24/12							
Date Analyzed:	06/04/12							
QC Batch No.:	120604GC8A1							
Analyst Initials:	MJ							
Dilution Factor:	3.1							
ANALYTE	Result % v/v	RL % v/v						
Acetylene	ND	0.0031						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7-18-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D052505-08							
Client Sample I.D.:	60122079008 / A-074922-052412-CM-02992-1							
Date Sampled:	05/24/12							
Date Analyzed:	05/25/12							
QC Batch No.:	120525GC3A1							
Analyst Initials:	VM							
Dilution Factor:	2.2							
ANALYTE	Result ppmv	RL ppmv						
Hydrogen Sulfide	ND	0.44						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7-18-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone:	503-377-3920 Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Angela Bown, Chris Fetters
Purchase Order No.:	
Project Name:	Area 6
Project Number:	74922

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Alice Tracy
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

produced water = PW

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOC's Full List	6010 Metals Dissolved*	2540 TDS	300.0 Cl, Br, S, bicarbonate	4500 Sulfide	8015 TPH GRO and DRO	RSK175 dissolved methane	TO-15 Full list VOC's/TPH BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074922-052212-CM-03502	WT	G	~~5/22/12~~ 10		5/22/12	1035		10	X		X	X		X	6D	GW	H	X	X	X	X	X	2AG	1U	2	60122/16 ~~60122079~~ AES 5/29/12
2	GW-074922-052212-CM-DUP	WT	G			5/22/12	1040		10	X		X	X		X				X	X	X	X	X				01
3	GW-074922-052212-CM-MS	WT	G			5/22/12	1045		10	X		X	X		X				X	X	X	X	X				~~015~~ 02 per 5/26
4	GW-074922-052212-CM-MSD	WT	G			5/22/12	1050		10	X		X	X		X				X	X	X	X	X				~~03~~
5	GW-074922-052212-CM-03897PI-1	WT	G			5/22/12	1315		10	X		X	X		X				X	X	X	X	X				02
6	GW-074922-052212-CM-02816-2	WT	G			5/22/12	1440		10	X		X	X		X				X	X	X	X	X				03
7	GW-074922-052212-CM-03259-2	WT	G			5/22/12	1550		10	X		X	X		X				X	X	X	X	X				04
8	PW-074922-052312-CM-202-2	PW	G			5/23/12	0930	-	10	X		X	X		X				X	X	X	X	X	1AG	1U		05
9	PW-074922-052312-CM-25-2	PW	G			5/23/12	1145		10	X		X	X		X				X	X	X	X	X	-			06
10	GW-074922-052412-CM-03823PI-2	GW	G			5/24/12	0900		10	X		X	X		X				X	X	X	X	X	2AG	1U		07
11	GW-074922-052412-CM-02992-1	WT	G			5/24/12	1410	-	10	X		X	X		X				X	X	X	X	X	1AA	1U		08
12	TB-074922-052512-CM-001	WT				5/25/12	1145		3				X		X						3x	6G	H		X		09

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*6010 Metals Dissolved; Mg, Ca, B, K, Na		5/25/12	1200		5/26/12	1000
RSK175 and TO15 direct ship to Pace Minnesota						
Direct ship to Airtech (EPA15/15 and ASTMD1946						
Direct ship to Isotech (Isotopes, fixed gases)						

SAMPLE CONDITIONS				
Temp in °C: 1.9	1.9	2.0	2.6	2.1
Received on Ice (Y/N)	Y			
Custody Sealed Cooler (Y/N)	Y			
Samples Intact (Y/N)	Y			

Comments: Samples beginning in PW are water from natural gas wells

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/25/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Package 87 of 91

60122196

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

09627 Page: 1 of 1

Section A Required Client Information:
Company: CRA
Address: 612 Indian School #200 Albuquerque, NM 87102
Email To: keblanchard@craworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: keblanchard@craworld.com
Copy To: cmathews@craworld.com
Purchase Order No.:
Project Name: Area 6 GW & AIR
Project Number: 074922

Section C Invoice Information:
Attention:
Company Name: ConocoPhillips ENFOS PO 535628
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: UST Superfund Emissions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other
Location of Sampling by State: NM
Reporting Units: ug/m³ mg/m³ PPBV PPMV Other
Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID — Sample IDs MUST BE UNIQUE

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	~~A-074922-052212-CM-03811PI-1~~																				
2	A-074922-052212-CM-02816-2	1LC		5/22/12	1500					1169								X			
3	A-074922-052212-CM-03259-2	1LC		5/22/12	1610					2495								X			
4	A-074922-052312-CM-202-2	1LC		5/23/12	1000					2418								X			
5	A-074922-052312-CM-25-2	1LC		5/23/12	1200					2476								X			
6	A-074922-052412-CM-03823PI-2	1LC		5/24/12	0905					2480								X			
7	~~A-074922-052412-CM-03~~																				
8	A-074922-052412-CM-03250(2)-1	1LC		5/24/12	~~935~~		1200			919								X			
9	A-074922-052412-CM-03250-2	1LC		5/24/12	~~1~~		935			1319								X			
10	A-074922-052412-CM-02992-1	1LC		5/24/12			1515			1314								X			
11	A-074922-052412-CM-DUP	1LC		5/24/12			945			2419								X			
12																					

Comments:
Full list VOCs & TPH
- Samples ending in 202-2 & 25-2 are gas samples.

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	5/24/12	1700	[signature]	5.25.12	1001

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christa Mathews
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 05/24/12

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
ambt	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

60122196

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SHORT HOLD 5.26.12

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A Required Client Information:

Company: CRA
Address: 6121 Indian School Albuquerque, NM 87110
Email To: kblanchard@crawworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: kblanchard@crawworld.com
Copy To: cmathews@crawworld.com
Purchase Order No.:
Project Name: Area 6 GW & Air
Project Number: 074922

Section C Invoice Information:

Attention:
Company Name: Conoco Phillips ENFOS PO 535628
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NM

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE
PW = produced water
Ground Water = GW

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / END/GRAB DATE	COLLECTED COMPOSITE START / END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C: Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	RSK 175 Dissolved Methane	Pace Lab ID
1	GW-074922-052212-CM-03250-2	GW		5/22/12	1035																X	
2	GW-074922-052212-CM-DUP	GW		5/22/12	1040																X	
3	GW-074922-052212-CM-MS	GW		5/22/12	1045																X	
4	GW-074922-052212-CM-MSD	GW		5/22/12	1050																X	
5	GW-074922-052212-CM-03897PI-1	GW		5/22/12	1315																X	
6	GW-074922-052212-CM-02816-2	GW		5/22/12	1440																X	
7	GW-074922-052212-CM-03259-2	GW		5/22/12	1550																X	
8	~~GW-074~~ PW-074922-052312-CM-202-2	PW		5/23/12	0930																X	
9	PW-074922-052312-CM-25-2	PW		5/23/12	1145																X	
10	GW-074922-052412-CM-03823PI-2	GW		5/24/12	0900																X	
11	GW-074922-052412-CM-02992-1	GW		5/24/12	1410																X	
12																						

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Christine Mathews/CRA	5/25/12	1200	[illegible]	5-26-12	9:15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christine Mathews
SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM / DD / YY): 05/25/12

Comments: produced water samples items numbered 8 & 9 come from natural gas production wells.

ORIGINAL

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmathews@crawrld.com

Project: 074922-Arcadis
Location: San Juan County, NM
Sampled by: CM, JP, HN

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Oxygen Isotopes	Comments
	GW-074922-052212-CM-03250-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-DUP	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MS	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MSD	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03897PI-1	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03816-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03259-2	5/22/12	(1) 60mL	
Label Smudged	PW-074922-052312-CM-202-2	5/23/12	(1) 60mL	water from natural gas well
	PW-074922-052312-CM-25-2	5/23/12	(1) 60mL	water from natural gas well
	GW-074922-052412-CM-03813PI-2	5/24/12	(1) 60mL	
	GW-074922-052412-CM-02992-1	5/24/12	(1) 60mL	

Chain-of-Custody Record

	Signature		Company	Date	Time
Relinquished by	[signature]	5/25/12@	1200 CRA	5/24/12	1200
Received by	[signature]		Isotech Labs	5/29/12@	1000
Relinquished by					
Received by					
Relinquished by					
Received by					

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 612 Indian School Rd #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMathews@Craworld.com

Project: 074922 - Area 6
Location: San Juan County, NM
Sampled by: CM, JP, HN

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Carbon Isotopes	Analyses Requested: Hydrocarbons/ Fixed gases Spec. Gravity/BTU	Analyses Requested: * if possible CO, Oxygen & Sulfur Isotopes	Comments
	A-074922-052212-CM-02816-2	5/22/12	X	X	X	* run if possible w/ sample volume
	A-074922-052212-CM-03259-2	5/22/12	X	X	X	
	A-074922-052312-CM-202-2	5/23/12	X	X	X	
	A-074922-052312-CM-25-2	5/23/12	X	X	X	
	A-074922-052412-CM-03823PI-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250(2)-1	5/24/12	X	X	X	
	A-074922-052412-CM-02992-1	5/24/12	X	X	X	
	A-074922-052412-CM-DUP	5/24/12	X	X	X	

Comments: Sample were shipped in ~~3~~ 4 seperate boxes (3 per box) ~~1 box w/ 1 sample 2 empties~~) CM 5-24-12

CM 5-24-12

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Christine Mathews	CRA	5/24/12	1700
Received by	Kayci Simmons	ISOTECH	5/25/12	1000
Relinquished by				
Received by				
Relinquished by				
Received by				

60122079

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME				DELIVERABLES		PAGE: 1 OF 1
Standard	X	48 hours	☐	EDD	X	Condition upon receipt:
Same Day	☐	72 hours	☐	EDF	☐	Sealed Yes ☐ No ☐
24 hours	☐	96 hours	☐	LEVEL 3	☐	Intact Yes ☐ No ☐
Other:				LEVEL 4	☐	Chilled _____ deg C

Project No.:	074922
Project Name:	Area 6
Report To:	Christine Mathews
Company:	CRA
Street:	6121 Indian School Rd #200
City/State/Zip:	Albuquerque, NM, 87110
Phone& Fax:	505 884-0672
e-mail:	cmathews@craworld.com

BILLING

P.O. No.:
Bill to: PACE Analytical

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	Acetylene ASTM D1946	Hydrogen Sulfide EPA 15/16				
	A-074922-052212-CM-02816-2	5/22/12	1500	AIR	silco	X	X				01
	A-074922-052212-CM-03259-2	5/22/12	1610	AIR	silco	X	X				02
	A-074922-052312-CM-202-2	5/23/12	1000	GAS	silco	X	X				03
	A-074922-052312-CM-25-2	5/23/12	1200	GAS	silco	X	X				04
	A-074922-052412-CM-03823P1-2	5/24/12	0905	AIR	silco	X	X				05
	A-074922-052412-CM-03250(2)-1	5/24/12	1200	AIR	silco	X	X				06
	A-074922-052412-CM-03250-2	5/24/12	0935	AIR	silco	X	X				07
	A-074922-052412-CM-02982-1	5/24/12	1515	AIR	silco	X	X				08
	A-074922-052412-CM-DUP	5/24/12	0945	AIR	silco	X	X				09

AUTHORIZATION TO PERFORM WORK	Christine Mathews	COMPANY CRA	DATE/TIME 5/24/12 1700
SAMPLED BY	Christine Mathews	COMPANY CRA	DATE/TIME 5/24/12 1700
RELINQUISHED BY	Christine Mathews	DATE/TIME 5/24/12 1700	RECEIVED BY FEDEX DATE/TIME
RELINQUISHED BY FEDEX		DATE/TIME 5/25/12 0908	RECEIVED BY	DATE/TIME 5/25/12 0908
RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other _____

COMMENTS

All containers are 1 Liter silco canisters

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

2 of 2

6012196 AFT 5/29/12

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA NM

Project # ~~6012207~~

4610
4717

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 8496 3832 4691 4706 4728

Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date:
Proj. Name: 6/7

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-191 / T-194

Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.9/1.9/2.0/2.6/2.1

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: PVS-26-12

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9. one Amber broke for 202-2 and 02992-1.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 043012-3		PVS-26-12
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	16. ~~3 of 3~~ 6 of 6 PW-074922-052312-CM-202-2 DRPH
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: Parent sample is 63250-2, no DRO volume for 25-2, forhot headspace per client 5/29/12 AFT

Project Manager Review: AFT Date: 5/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

60122196

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 12Apr2012 Page 1 of 1
	Document Number: F-MN-A-106-rev.03	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: CRA-NM/Pace RS Project #_____

Courier: ~~Fed Ex~~ ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ~~no~~ Seals intact ~~yes~~ 05.25 ~~no~~

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ~~Foam~~ ☐ None ☐ Other_____

Optional
Proj. Due Date:
Proj. Name:

Temperature (TO17 and TO13 samples only):_____
Temp should be above freezing to 6°C

Tracking #: 4569 1403 6075, 8064

Comments:

Date and Initials of person examining contents: 05.25.12

Chain of Custody Present:	~~Yes~~ ☐No ☐N/A	1.
Chain of Custody Filled Out:	~~Yes~~ ☐No ☐N/A	2.
Chain of Custody Relinquished:	~~Yes~~ ☐No ☐N/A	3.
Sampler Name & Signature on COC:	~~Yes~~ ☐No ☐N/A	4
Samples Arrived within Hold Time:	~~Yes~~ ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ~~No~~ ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ~~No~~ ☐N/A	7.
Sufficient Volume:	~~Yes~~ ☐No ☐N/A	8.
Correct Containers Used:	~~Yes~~ ☐No ☐N/A	9.
-Pace Containers Used:	~~Yes~~ ☐No ☐N/A	
Containers Intact:	~~Yes~~ ☐No ☐N/A	10
Media: 10 cans 10 gauges		11.
Sample Labels match COC	~~Yes~~ ☐No ☐N/A	12. 03250(2)-1 sample tag lists time as 12:30 not 1200 1 can has void on sample label
Samples Received:		

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
CM-02816-2	Pace 1169				
11-02759-2	11 2495				
11-202-2	11 2418				
11-25-2	11 2476				
11-03023P1-2	11 2180				
11-03250(2)-1	11 0919				
11-03250-2	11 1319				
11-02992-1	11 1314				
11-CM-Dup	11 2419				
Void	11 2402				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: Date:_____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
HSE Governance & Performance
420 South Keeler AVE
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

RCVD AUG 22 '12
OIL CONS. DIV.
DIST. 3

Mr. Leo M. Olguin
32 NM 173
Aztec, NM 87410

August 17, 2012

Re: Water Well Sample Analytical Results

Dear Mr. Olguin:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on May 22, 2012, from the water well on your property located on Road 4049, in San Juan County, New Mexico. Summary tables are included along with the actual laboratory reports. The summary table for water results depicts New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your well for the May 2012 sampling event. Note that the only exceedances of established NMWQCC standards are for total dissolved solids, chloride and sulfate. This is typical of many water wells in the region.

As you know, ConocoPhillips initially contacted you seeking permission to sample your well in response to methane and hydrogen sulfide found in another water well in the vicinity. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the source for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that methane was detected at a very low concentration (327 micrograms per liter or 0.327 milligrams per liter) in a water sample from your well during the May 2012 sampling.

Since your well was sealed at the surface, ConocoPhillips' contractor was not able to retrieve a "headspace" sample from the well. Without the headspace sample we have limited options for analyzing any gases which might otherwise allow us to determine the potential source for the methane encountered in the water sample from your well.

Methane is quite common in water wells in the San Juan Basin due largely to the presence of coal seams and organic-rich shales. To help explain the presence of methane in water wells, I have enclosed as a courtesy a copy of a publication entitled "How Well Do You Know Your Water Well?" This document was prepared in cooperation with three regulatory agencies in Colorado. The discussion on methane in groundwater begins on Page 19.

Since methane was detected in a sample from your well, ConocoPhillips would like to collect one more round of samples utilizing a different method in order to confirm the presence and

attempt to better characterize the methane. A ConocoPhillips representative will contact you in the near future to seek your concurrence and schedule a sampling date.

The results of the May 2012 sampling event for your water well have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03897P1 - OLGUIN

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03897P1	GW-074922-052212-CM-03897P1-1	05/22/2012	327	NA	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	365	361,000	11,600	6,090	2,160,000	82.0	7,800	< 0.050	< 1.0	317	5,210
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03897P1	GW-074922-052212-CM-03897P1-1	05/22/2012	-109.5	-14.20

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen Chemical mol. %	Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
								Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰									
03897P1	--	05/22/2012	Inaccessible																						

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03897P1	--	05/22/2012	Inaccessible	

Notes:
1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3.ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume

Sample ID
GW-074922-052212-CM-03897P1-1

Resident
Leo Olguin

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www.pacelabs.com

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

July 18, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: Project 5 Area 6
Pace Project No.: 60125296

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on May 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

07/18/12 Revised to report shareholder samples separate per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: Project 5 Area 6
Pace Project No.: 60125296

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: Project 5 Area 6
Pace Project No.: 60125296

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122079012	GW-074922-052212-CM-03897P1-1	Water	05/22/12 13:15	05/26/12 10:00

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SAMPLE ANALYTE COUNT

Project: Project 5 Area 6
Pace Project No.: 60125296

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122079012	**GW-074922-052212-CM-03897P1-1**	RSK 175	SK4	1	PASI-M
		EPA 8015B	SDR	3	PASI-K
		EPA 6010	JGP, SMW	5	PASI-K
		EPA 5030B/8260	JDM	70	PASI-K
		SM 2320B	AJM	2	PASI-K
		SM 2540C	DJR	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	OL	3	PASI-K

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: AIR/14993

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1208052)
  - Methane
- MSD (Lab ID: 1208053)
  - Methane

R1: RPD value was outside control limits.

- MSD (Lab ID: 1208053)
  - Methane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

Analyte Comments:

QC Batch: AIR/14993

1e: 107.02 TIMES SPIKE AMOUNT.
- MS (Lab ID: 1208052)
  - Methane

2e: 299.26 TIMES SPIKE AMOUNT
- MSD (Lab ID: 1208053)
  - Methane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MSD (Lab ID: 1208053)
  - Methane

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/12529

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18210

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1006348)
  - Sodium, Dissolved
- MSD (Lab ID: 1006349)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/35295

B: Analyte was detected in the associated method blank.

- GW-074922-052212-CM-03897P1-1 (Lab ID: 60122079012)
  - Alkalinity,Bicarbonate (CaCO3)
  - Alkalinity, Total as CaCO3

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 5 Area 6
Pace Project No.: 60125296

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 18, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Project 5 Area 6
Pace Project No.: 60125296

Sample: GW-074922-052212-CM-03897P1-1 **Lab ID: 60122079012** Collected: 05/22/12 13:15 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**327**	ug/L	6.6	0.69	1		05/29/12 17:46	74-82-8	
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.53	0.10	1	05/29/12 00:00	06/04/12 23:37		
Surrogates									
p-Terphenyl (S)	67	%	40-118		1	05/29/12 00:00	06/04/12 23:37	92-94-4	
n-Tetracosane (S)	74	%	36-120		1	05/29/12 00:00	06/04/12 23:37	646-31-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**365**	ug/L	100	1.8	1	05/31/12 15:50	06/06/12 13:23	7440-42-8	
Calcium, Dissolved	**361000**	ug/L	100	35.8	1	05/31/12 15:50	06/06/12 13:23	7440-70-2	
Magnesium, Dissolved	**11600**	ug/L	50.0	17.2	1	05/31/12 15:50	06/06/12 13:23	7439-95-4	
Potassium, Dissolved	**6090**	ug/L	500	64.1	1	05/31/12 15:50	06/06/12 13:23	7440-09-7	
Sodium, Dissolved	**2160000**	ug/L	10000	802	20	05/31/12 15:50	06/07/12 11:57	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	2.2	1		06/03/12 16:15	67-64-1	
Benzene	ND	ug/L	1.0	0.070	1		06/03/12 16:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.064	1		06/03/12 16:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.10	1		06/03/12 16:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		06/03/12 16:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.15	1		06/03/12 16:15	75-25-2	
Bromomethane	ND	ug/L	1.0	0.22	1		06/03/12 16:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.41	1		06/03/12 16:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.078	1		06/03/12 16:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.047	1		06/03/12 16:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.066	1		06/03/12 16:15	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.053	1		06/03/12 16:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.23	1		06/03/12 16:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.093	1		06/03/12 16:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.19	1		06/03/12 16:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.087	1		06/03/12 16:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		06/03/12 16:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.19	1		06/03/12 16:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		06/03/12 16:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.66	1		06/03/12 16:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.091	1		06/03/12 16:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.13	1		06/03/12 16:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.12	1		06/03/12 16:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.077	1		06/03/12 16:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.068	1		06/03/12 16:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.072	1		06/03/12 16:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.15	1		06/03/12 16:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.079	1		06/03/12 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.080	1		06/03/12 16:15	107-06-2	

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ANALYTICAL RESULTS

Project: Project 5 Area 6
Pace Project No.: 60125296

Sample: GW-074922-052212-CM-03897P1-1 **Lab ID: 60122079012** Collected: 05/22/12 13:15 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		06/03/12 16:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		06/03/12 16:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.086	1		06/03/12 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.085	1		06/03/12 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.045	1		06/03/12 16:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.097	1		06/03/12 16:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.11	1		06/03/12 16:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.088	1		06/03/12 16:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.066	1		06/03/12 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.080	1		06/03/12 16:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.078	1		06/03/12 16:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.11	1		06/03/12 16:15	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.50	1		06/03/12 16:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.069	1		06/03/12 16:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.065	1		06/03/12 16:15	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.12	1		06/03/12 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.33	1		06/03/12 16:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.077	1		06/03/12 16:15	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.14	1		06/03/12 16:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.071	1		06/03/12 16:15	103-65-1	
Styrene	ND	ug/L	1.0	0.080	1		06/03/12 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		06/03/12 16:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		06/03/12 16:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.073	1		06/03/12 16:15	127-18-4	
Toluene	ND	ug/L	1.0	0.064	1		06/03/12 16:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		06/03/12 16:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		06/03/12 16:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.13	1		06/03/12 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		06/03/12 16:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.064	1		06/03/12 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.064	1		06/03/12 16:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.36	1		06/03/12 16:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.060	1		06/03/12 16:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.094	1		06/03/12 16:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.068	1		06/03/12 16:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		06/03/12 16:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	87-113		1		06/03/12 16:15	460-00-4	
Dibromofluoromethane (S)	100	%	86-112		1		06/03/12 16:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119		1		06/03/12 16:15	17060-07-0	
Toluene-d8 (S)	99	%	90-110		1		06/03/12 16:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/03/12 16:15		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**82.0**	mg/L	20.0	3.8	1		05/31/12 10:45		B

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Project 5 Area 6
Pace Project No.: 60125296

Sample: GW-074922-052212-CM-03897P1-1 **Lab ID: 60122079012** Collected: 05/22/12 13:15 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**82.0**	mg/L	20.0	3.8	1		05/31/12 10:45		B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**7800**	mg/L	5.0	5.0	1		05/29/12 09:58		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		05/29/12 16:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.059	1		06/07/12 23:06	24959-67-9	
Chloride	**317**	mg/L	50.0	2.8	50		06/08/12 12:31	16887-00-6	
Sulfate	**5210**	mg/L	1000	150	1000		06/08/12 12:15	14808-79-8	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: AIR/14993
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60122079012

METHOD BLANK: 1206739 Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	6.6	05/29/12 14:36	

LABORATORY CONTROL SAMPLE & LCSD: 1206740 1206741

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	56.9	57.6	94	95	70-130	1	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208052 1208053

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	10100	60.7	57.8	6490	17300	-5900	12500	30-150	91	30	1e,2e, E,M0, R1

SAMPLE DUPLICATE: 1208051

Parameter	Units	4060818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	9.0	9.6	6	30	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: MPRP/18210
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60122079012

METHOD BLANK: 1006346 Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/06/12 13:08	
Calcium, Dissolved	ug/L	ND	100	06/06/12 13:08	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 13:08	
Potassium, Dissolved	ug/L	ND	500	06/06/12 13:08	
Sodium, Dissolved	ug/L	ND	500	06/06/12 13:08	

LABORATORY CONTROL SAMPLE: 1006347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	949	95	80-120	
Calcium, Dissolved	ug/L	10000	9260	93	80-120	
Magnesium, Dissolved	ug/L	10000	9950	99	80-120	
Potassium, Dissolved	ug/L	10000	9960	100	80-120	
Sodium, Dissolved	ug/L	10000	9670	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006348 1006349

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	119	1000	1000	1070	1090	95	97	75-125	2	20	
Calcium, Dissolved	ug/L	193000	10000	10000	201000	205000	76	120	75-125	2	20	
Magnesium, Dissolved	ug/L	11300	10000	10000	20700	21000	94	97	75-125	1	20	
Potassium, Dissolved	ug/L	2890	10000	10000	13000	13200	101	103	75-125	2	20	
Sodium, Dissolved	ug/L	306000	10000	10000	291000	296000	-154	-106	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: MSV/45992
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122079012

METHOD BLANK: 1007054
Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/03/12 15:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/03/12 15:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,3-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
2,2-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
2-Butanone (MEK)	ug/L	ND	10.0	06/03/12 15:27	
2-Chlorotoluene	ug/L	ND	1.0	06/03/12 15:27	
2-Hexanone	ug/L	ND	10.0	06/03/12 15:27	
4-Chlorotoluene	ug/L	ND	1.0	06/03/12 15:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/03/12 15:27	
Acetone	ug/L	ND	10.0	06/03/12 15:27	
Benzene	ug/L	ND	1.0	06/03/12 15:27	
Bromobenzene	ug/L	ND	1.0	06/03/12 15:27	
Bromochloromethane	ug/L	ND	1.0	06/03/12 15:27	
Bromodichloromethane	ug/L	ND	1.0	06/03/12 15:27	
Bromoform	ug/L	ND	1.0	06/03/12 15:27	
Bromomethane	ug/L	ND	1.0	06/03/12 15:27	
Carbon disulfide	ug/L	ND	5.0	06/03/12 15:27	
Carbon tetrachloride	ug/L	ND	1.0	06/03/12 15:27	
Chlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
Chloroethane	ug/L	ND	1.0	06/03/12 15:27	
Chloroform	ug/L	ND	1.0	06/03/12 15:27	
Chloromethane	ug/L	ND	1.0	06/03/12 15:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
Dibromochloromethane	ug/L	ND	1.0	06/03/12 15:27	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

METHOD BLANK: 1007054 Matrix: Water

Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	06/03/12 15:27	
Dichlorodifluoromethane	ug/L	ND	1.0	06/03/12 15:27	
Ethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/03/12 15:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/03/12 15:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/03/12 15:27	
Methylene chloride	ug/L	ND	1.0	06/03/12 15:27	
n-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
n-Propylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Naphthalene	ug/L	ND	10.0	06/03/12 15:27	
p-Isopropyltoluene	ug/L	ND	1.0	06/03/12 15:27	
sec-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Styrene	ug/L	ND	1.0	06/03/12 15:27	
tert-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Tetrachloroethene	ug/L	ND	1.0	06/03/12 15:27	
Toluene	ug/L	ND	1.0	06/03/12 15:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
Trichloroethene	ug/L	ND	1.0	06/03/12 15:27	
Trichlorofluoromethane	ug/L	ND	1.0	06/03/12 15:27	
Vinyl chloride	ug/L	ND	1.0	06/03/12 15:27	
Xylene (Total)	ug/L	ND	3.0	06/03/12 15:27	
1,2-Dichloroethane-d4 (S)	%	101	82-119	06/03/12 15:27	
4-Bromofluorobenzene (S)	%	103	87-113	06/03/12 15:27	
Dibromofluoromethane (S)	%	99	86-112	06/03/12 15:27	
Toluene-d8 (S)	%	99	90-110	06/03/12 15:27	

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	106	81-121	
1,1,1-Trichloroethane	ug/L	20	20.3	102	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	78-124	
1,1,2-Trichloroethane	ug/L	20	22.3	112	79-121	
1,1-Dichloroethane	ug/L	20	19.4	97	73-119	
1,1-Dichloroethene	ug/L	20	18.4	92	75-120	
1,1-Dichloropropene	ug/L	20	20.7	103	79-123	
1,2,3-Trichlorobenzene	ug/L	20	23.5	118	73-122	
1,2,3-Trichloropropane	ug/L	20	23.0	115	77-124	
1,2,4-Trichlorobenzene	ug/L	20	22.6	113	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.9	104	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.9	109	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	22.3	112	85-121	
1,2-Dichlorobenzene	ug/L	20	21.4	107	82-115	
1,2-Dichloroethane	ug/L	20	21.9	110	77-125	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.0	97	79-120	
1,2-Dichloropropane	ug/L	20	21.2	106	83-119	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	79-121	
1,3-Dichlorobenzene	ug/L	20	20.8	104	79-117	
1,3-Dichloropropane	ug/L	20	21.7	108	78-116	
1,4-Dichlorobenzene	ug/L	20	21.3	106	83-115	
2,2-Dichloropropane	ug/L	20	22.2	111	66-123	
2-Butanone (MEK)	ug/L	100	111	111	43-165	
2-Chlorotoluene	ug/L	20	20.7	103	81-117	
2-Hexanone	ug/L	100	110	110	47-159	
4-Chlorotoluene	ug/L	20	20.6	103	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	71-129	
Acetone	ug/L	100	105	105	18-192	
Benzene	ug/L	20	20.2	101	82-117	
Bromobenzene	ug/L	20	20.9	105	83-116	
Bromochloromethane	ug/L	20	20.7	104	79-121	
Bromodichloromethane	ug/L	20	20.2	101	79-114	
Bromoform	ug/L	20	20.9	104	78-121	
Bromomethane	ug/L	20	17.9	89	36-146	
Carbon disulfide	ug/L	20	17.5	88	75-138	
Carbon tetrachloride	ug/L	20	20.0	100	80-123	
Chlorobenzene	ug/L	20	21.0	105	83-121	
Chloroethane	ug/L	20	19.4	97	42-166	
Chloroform	ug/L	20	21.2	106	82-116	
Chloromethane	ug/L	20	18.8	94	32-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-119	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	76-119	
Dibromochloromethane	ug/L	20	21.0	105	81-123	
Dibromomethane	ug/L	20	23.3	117	79-123	
Dichlorodifluoromethane	ug/L	20	16.8	84	10-163	
Ethylbenzene	ug/L	20	20.5	103	79-121	
Hexachloro-1,3-butadiene	ug/L	20	20.5	102	78-125	
Isopropylbenzene (Cumene)	ug/L	20	21.9	109	80-120	
Methyl-tert-butyl ether	ug/L	20	19.3	97	78-119	
Methylene chloride	ug/L	20	18.9	94	75-118	
n-Butylbenzene	ug/L	20	21.2	106	80-126	
n-Propylbenzene	ug/L	20	21.5	107	83-116	
Naphthalene	ug/L	20	22.9	114	66-133	
p-Isopropyltoluene	ug/L	20	20.9	105	77-120	
sec-Butylbenzene	ug/L	20	20.8	104	81-120	
Styrene	ug/L	20	21.2	106	84-115	
tert-Butylbenzene	ug/L	20	20.7	103	80-117	
Tetrachloroethene	ug/L	20	19.8	99	80-124	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	79-120	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	76-118	
Trichloroethene	ug/L	20	19.8	99	76-122	
Trichlorofluoromethane	ug/L	20	19.4	97	72-120	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	19.3	97	57-163	
Xylene (Total)	ug/L	60	64.5	108	75-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007056 1007057

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.1	103	106	56-124	3	26	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.4	21.9	102	110	57-128	7	27	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	20.9	114	105	48-137	8	26	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.1	22.8	116	114	57-136	2	25	
1,1-Dichloroethane	ug/L	ND	20	20	20.3	20.9	101	105	55-130	3	27	
1,1-Dichloroethene	ug/L	ND	20	20	18.8	20.1	94	101	46-146	7	25	
1,1-Dichloropropene	ug/L	ND	20	20	19.6	21.4	98	107	57-137	9	27	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.6	21.3	103	107	41-136	3	22	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	20.4	108	102	56-136	5	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	21.0	99	105	32-140	6	26	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.3	20.4	97	102	42-133	5	23	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.5	21.0	112	105	36-167	7	29	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.5	20.5	107	102	45-155	5	21	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	20.4	102	102	54-125	0	19	
1,2-Dichloroethane	ug/L	ND	20	20	22.2	21.4	111	107	44-145	4	22	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	38.6	39.6	96	99	46-144	2	26	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	20.9	102	105	60-124	3	26	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	20.6	98	103	38-143	5	27	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	20.3	99	102	53-123	2	24	
1,3-Dichloropropane	ug/L	ND	20	20	21.9	21.7	109	108	61-130	1	27	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	20.1	99	100	53-121	1	25	
2,2-Dichloropropane	ug/L	ND	20	20	6.6	7.1	33	36	21-146	7	25	
2-Butanone (MEK)	ug/L	26.9	100	100	129	128	102	102	29-131	0	27	
2-Chlorotoluene	ug/L	ND	20	20	19.9	20.4	100	102	54-131	2	21	
2-Hexanone	ug/L	ND	100	100	103	104	103	104	41-137	1	24	
4-Chlorotoluene	ug/L	ND	20	20	20.1	20.6	100	103	56-130	2	22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	104	105	104	38-139	1	25	
Acetone	ug/L	ND	100	100	116	124	116	124	30-147	7	30	
Benzene	ug/L	ND	20	20	20.3	21.0	101	105	58-139	3	21	
Bromobenzene	ug/L	ND	20	20	20.1	20.3	101	102	57-123	1	21	
Bromochloromethane	ug/L	ND	20	20	20.2	20.8	101	104	56-127	3	24	
Bromodichloromethane	ug/L	ND	20	20	19.8	20.2	99	101	56-125	2	26	
Bromoform	ug/L	ND	20	20	20.1	20.4	101	102	41-132	2	21	
Bromomethane	ug/L	ND	20	20	13.2	14.9	66	75	11-162	12	30	
Carbon disulfide	ug/L	ND	20	20	16.8	18.1	84	90	28-155	7	25	
Carbon tetrachloride	ug/L	ND	20	20	19.4	21.5	97	108	54-138	10	23	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007056 1007057

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	20.0	21.0	100	105	56-129	5	21	
Chloroethane	ug/L	ND	20	20	17.8	18.2	89	91	42-178	2	33	
Chloroform	ug/L	ND	20	20	21.1	21.5	105	107	55-130	2	23	
Chloromethane	ug/L	ND	20	20	15.8	16.3	79	81	39-141	3	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	20.7	101	104	34-152	3	26	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.0	17.1	85	85	49-128	1	23	
Dibromochloromethane	ug/L	ND	20	20	20.8	20.8	104	104	57-119	0	21	
Dibromomethane	ug/L	ND	20	20	22.0	22.0	110	110	58-123	0	26	
Dichlorodifluoromethane	ug/L	ND	20	20	11.4	12.8	57	64	13-152	12	33	
Ethylbenzene	ug/L	ND	20	20	19.0	20.4	95	102	56-138	7	19	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.9	19.3	84	96	34-141	13	27	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.6	96	103	49-120	7	19	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	19.5	98	98	35-140	0	20	
Methylene chloride	ug/L	ND	20	20	19.0	19.4	95	97	44-133	2	27	
n-Butylbenzene	ug/L	ND	20	20	17.6	19.3	88	96	44-138	9	27	
n-Propylbenzene	ug/L	ND	20	20	19.9	21.8	100	109	46-136	9	22	
Naphthalene	ug/L	ND	20	20	22.5	22.3	113	112	26-159	1	34	
p-Isopropyltoluene	ug/L	ND	20	20	18.7	20.0	93	100	47-129	7	23	
sec-Butylbenzene	ug/L	ND	20	20	18.7	20.8	94	104	51-138	10	23	
Styrene	ug/L	ND	20	20	19.8	20.7	99	103	31-162	5	26	
tert-Butylbenzene	ug/L	ND	20	20	19.1	21.0	95	105	54-135	10	22	
Tetrachloroethene	ug/L	ND	20	20	19.1	20.4	95	102	47-140	7	24	
Toluene	ug/L	ND	20	20	19.6	20.1	98	101	59-140	3	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.4	18.8	92	94	62-130	2	25	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.1	17.0	85	85	41-111	0	20	
Trichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	37-148	4	25	
Trichlorofluoromethane	ug/L	ND	20	20	18.3	20.4	92	102	53-138	11	30	
Vinyl chloride	ug/L	ND	20	20	16.8	17.9	84	89	47-133	6	32	
Xylene (Total)	ug/L	ND	60	60	60.3	64.1	100	107	52-146	6	19	
1,2-Dichloroethane-d4 (S)	%						104	103	82-119			
4-Bromofluorobenzene (S)	%						102	99	87-113			
Dibromofluoromethane (S)	%						104	101	86-112			
Toluene-d8 (S)	%						100	100	90-110			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: OEXT/33332
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60122079012

METHOD BLANK: 1005185
Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	06/04/12 22:19	
n-Tetracosane (S)	%	78	36-120	06/04/12 22:19	
p-Terphenyl (S)	%	78	40-118	06/04/12 22:19	

LABORATORY CONTROL SAMPLE: 1005186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	82	48-119	
n-Tetracosane (S)	%			67	36-120	
p-Terphenyl (S)	%			73	40-118	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: WET/35295
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60122079012

METHOD BLANK: 1006241 Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	05/31/12 10:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	05/31/12 10:45	

LABORATORY CONTROL SAMPLE: 1006242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 1006243

Parameter	Units	60121940001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	44.0	44.0	0	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	36.0	36.0	0	9	

SAMPLE DUPLICATE: 1006244

Parameter	Units	60122079010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	222	226	2	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	222	226	2	9	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: WET/35248
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122079012

METHOD BLANK: 1005167
Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/29/12 09:56	

SAMPLE DUPLICATE: 1005168

Parameter	Units	60122063004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2440	3	17	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: WET/35258
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60122079012

METHOD BLANK: 1005278 Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/29/12 16:10	

LABORATORY CONTROL SAMPLE: 1005279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 1005280

Parameter	Units	60122079010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.56	111	75-125	

SAMPLE DUPLICATE: 1005281

Parameter	Units	60122079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

QC Batch: WETA/20466 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60122079012

METHOD BLANK: 1010005 Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	06/07/12 17:12	
Chloride	mg/L	ND	1.0	06/07/12 17:12	
Sulfate	mg/L	ND	1.0	06/07/12 17:12	

METHOD BLANK: 1010613 Matrix: Water
Associated Lab Samples: 60122079012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/08/12 09:41	
Sulfate	mg/L	ND	1.0	06/08/12 09:41	

LABORATORY CONTROL SAMPLE: 1010006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.1	102	90-110	
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1010614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1010007 1010008

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.0	4.8	100	97	75-119	3	10	
Chloride	mg/L	8.1	5	5	12.3	12.4	85	87	64-118	1	12	
Sulfate	mg/L	1080	1000	1000	2070	2060	99	98	61-119	0	10	

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QUALITY CONTROL DATA

Project: Project 5 Area 6
Pace Project No.: 60125296

MATRIX SPIKE SAMPLE: 1010009

Parameter	Units	60122079014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	5	4.8	88	75-119	
Chloride	mg/L	5.6	5	10	89	64-118	
Sulfate	mg/L	2610	2500	5610	120	61-119	M6

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QUALIFIERS

Project: Project 5 Area 6
Pace Project No.: 60125296

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/33332

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	107.02 TIMES SPIKE AMOUNT.
2e	299.26 TIMES SPIKE AMOUNT
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Project 5 Area 6
Pace Project No.: 60125296

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122079012	GW-074922-052212-CM-03897P1-1	RSK 175	AIR/14993		
60122079012	GW-074922-052212-CM-03897P1-1	EPA 3510C	OEXT/33332	EPA 8015B	GCSV/12529
60122079012	GW-074922-052212-CM-03897P1-1	EPA 3010	MPRP/18210	EPA 6010	ICP/15298
60122079012	GW-074922-052212-CM-03897P1-1	EPA 5030B/8260	MSV/45992		
60122079012	GW-074922-052212-CM-03897P1-1	SM 2320B	WET/35295		
60122079012	GW-074922-052212-CM-03897P1-1	SM 2540C	WET/35248		
60122079012	GW-074922-052212-CM-03897P1-1	SM 4500-S-2 D	WET/35258		
60122079012	GW-074922-052212-CM-03897P1-1	EPA 300.0	WETA/20466		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 249463 Job Number: 18327

Submitter Sample Name: GW-074922-052212-CM-03897P1-1

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan County, NM

Depth/Formation:

Container Type: 60ml Bottle

Sample Collected: 5/22/2012 Results Reported: 6/04/2012

δD of water	----------	-109.5 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-14.20 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks:

CHAIN-OF-CUSTODY / Analytical Request Document

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Angela Bown, Chris Fetters	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	503-377-3920 Fax: (505)884-4932	Project Name:	Area 6	Pace Project Manager:	Alice Tracy
Requested Due Date/TAT:	standard	Project Number:	74922	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260 VOC's Full List [6]	6010 Metals Dissolved*	2540 TDS [4]	300.0 Cl, Br, S, bicarbonate [1]	4500 Sulfide [1]	8015 TPH GRO and DRO [5]	RSK175 dissolved methane	TO-15 Full list VOC's/TPH	BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074922-052212-CM-03250Z	WT	G	~~5/22/12~~ 10		5/22/12	1035		10	X	X	X	X		X	6D	2H	Y	X	X	X	2AG	1U	2BP3U		10122/16 ~~10122079~~ AES 5/21/12 IBP3N IBP32 10.5 010
2	GW-074922-052212-CM-DUP	WT	G			5/22/12	1040		10	X	X	X	X		X				X	X	X					011
3	GW-074922-052212-CM-MS	WT	G			5/22/12	1045		10	X	X	X	X		X				X	X	X					~~012~~ ~~013~~ 5/26
4	GW-074922-052212-CM-MSD	WT	G			5/22/12	1050		10	X	X	X	X		X				X	X	X					012
5	GW-074922-052212-CM-03897PI-1	WT	G			5/22/12	1315		10	X	X	X	X		X				X	X	X					013
6	GW-074922-052212-CM-02816-2	WT	G			5/22/12	1440		10	X	X	X	X		X				X	X	X					014
7	GW-074922-052212-CM-03259-2	WT	G			5/22/12	1550		10	X	X	X	X		X				X	X	X					015
8	PW-074922-052312-CM-202-2	PW	G			5/23/12	0930	-	10	X	X	X	X		X				X	X	X		1AG	1U		016
9	PW-074922-052312-CM-25-2	PW	G			5/23/12	1145		10	X	X	X	X		X				X	X	X		-			017
10	GW-074922-052412-CM-03823PI-2	GW	G			5/24/12	0900		10	X	X	X	X		X				X	X	X		2AG	1U		018
11	GW-074922-052412-CM-02992-1	WT	G			5/24/12	1410	-	10	X	X	X	X		X				X	X	X		1AG	1U		019
12	TB-074922-052512-CM-001	WT				5/25/12	1145		3											3N	6H			X		019

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
*6010 Metals Dissolved; Mg, Ca, B, K, Na	Christine Mathews	5/25/12	1200		5/26/12	1000
RSK175 and TO15 direct ship to Pace Minnesota						
Direct ship to Airtech (EPA15/15 and ASTMD1946						
Direct ship to Isotech (Isotopes, fixed gases)						

SAMPLE CONDITIONS				
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
1.9	Y	Y	Y	
1.9				
2.0				
2-6				
2.1				

Comments: samples beginning in PW are water from natural gas wells

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 05/25/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

60122196

1138

Pace Analytical®
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SHORT HOLD 5.26.12

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

09628 Page: 1 of 1

Section A Required Client Information:

Company: CRA
Address: 6121 Indian School Albuquerque, NM 87110
Email To: kblanchard@crawworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: kblanchard@crawworld.com
Copy To: cmathews@crawworld.com
Purchase Order No.:
Project Name: Area 6 GW & Air
Project Number: 074922

Section C Invoice Information:

Attention:
Company Name: Conoco Phillips
Address: ENFOS PO 535628
Pace Quote Reference:
Pace Project Manager/Sales Rep.: Alice Tracy
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NM

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE
PW = produced water
Ground water = GW

Valid Media Codes: MEDIA / CODE — Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START / END/GRAB DATE	COLLECTED COMPOSITE START / END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	R5K175 Dissolved Methane	Pace Lab ID
1	GW-074922-052212-CM-03650-2	GW		5/22/12	1035															X	X	
2	GW-074922-052212-CM-DUP	GW		5/22/12	1040															X	X	
3	GW-074922-052212-CM-MS	GW		5/22/12	1045															X	X	
4	GW-074922-052212-CM-MSD	GW		5/22/12	1050															X	X	
5	GW-074922-052212-CM-03897PI-1	GW		5/22/12	1315															X	X	
6	GW-074922-052212-CM-02816-2	GW		5/22/12	1440															X	X	
7	GW-074922-052212-CM-03259-2	GW		5/22/12	1550															X	X	
8	~~GW-074922~~ PW-074922-052312-CM-202-2	PW		5/23/12	0930															X	X	
9	PW-074922-052312-CM-25-2	PW		5/23/12	1145															X	X	
10	GW-074922-052412-CM-03823PI-2	GW		5/24/12	0900															X	X	
11	GW-074922-052412-CM-02992-1	GW		5/24/12	1410															X	X	
12																						

Comments: produced water samples items numbered 8 & 9 come from natural gas production wells.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	5/25/12	1200		5-26-12	9:15

SAMPLE CONDITIONS: 3.2 | Y/N | Y/N | Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christine Mathews
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 05/25/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmathews@crawrld.com

Project: 074922- Arab
Location: San Juan County, NM
Sampled by: CM, JP, HN

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Oxygen Isotopes	Comments
	GW-074922-052212-CM-03250-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-DUP	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MS	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MSD	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03897PI-1	5/22/12	(1) 60mL	
	GW-074922-052212-CM-02816-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03259-2	5/22/12	(1) 60mL	
Label Smudged	PW-074922-052312-CM-202-2	5/23/12	(1) 60mL	Water from natural gas well
	PW-074922-052312-CM-25-2	5/23/12	(1) 60mL	water from natural gas well
	GW-074922-052412-CM-03823PI-2	5/24/12	(1) 60mL	
	GW-074922-052412-CM-02992-1	5/24/12	(1) 60mL	

Chain-of-Custody Record

	Signature		Company	Date	Time
Relinquished by	[signature]	5/25/12 @	1200 CRA	5/24/12	1200
Received by	[signature]		Isotech Labs	5/29/12 @	1000
Relinquished by					
Received by					
Relinquished by					
Received by					

2 of 2

60122196 (60122097) AFT 5/29/12

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA NM

Project #

4670 4717

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 8496 3832 4691 4706 4728

Pace Shipping Label Used? ☑ Yes ☐ No

Optional: Proj. Due Date: Proj. Name: 6/7

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.9/1.9/2.0/2.6/2.1

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: PWS 5-26-12

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9. one Amber broke for 202-2 and 02992-1.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 043012-3		PWS-26-12
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	16: ~~3 of 3~~ 6 of 6 PW-074922-052312-CM-202-2 DG9H
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: Parent sample is 03250-2, no DRO volume for 25-2, forhot headspace per client 5/29/12 AFT

Project Manager Review: AFT Date: 5/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples. a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

60122196

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 12Apr2017 Page 1 of 1
	Document Number: F-MN-A-106-rev.03	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: CRA-NM/Pace RS Project #:

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact ☒ yes ☐ no 05.25

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other

Optional
Proj. Due Date:
Proj. Name:

Temperature (TO17 and TO13 samples only):
Temp should be above freezing to 6°C

Tracking #: 4569 1403 6075, 8064

Comments:

Date and Initials of person examining contents: 05.25.12

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: 10 cans 10 sleeves		11.
Sample Labels match COC	☒Yes ☐No ☐N/A	12. 03250(2)-1 sample tag lists time as 12:30 not 1200 1 can has void on sample label
Samples Received:		

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
CM-02816-2	Pace 1169				
11-02959-2	11 2495				
11-202-2	11 2418				
11-25-2	11 2476				
11-03023P1-2	11 2160				
11-03250(2)-1	11 0919				
11-03250-2	11 1319				
11-02992-1	11 1314				
11-CM-Dup	11 2419				
Void	11 2402				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
HSE Governance & Performance
420 South Keeler AVE
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

RCVD AUG 22 '12
OIL CONS. DIV.
DIST. 3

Mr. James C. Good
2566 NM 511
Navajo Dam, NM 87419

August 17, 2012

Re: Water Well Sample Analytical Results

Dear Mr. Good:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on May 22, 2012, from the former water well on your property located at 2566 NM 511, in San Juan County, New Mexico. Summary tables are included along with the actual laboratory reports. The summary table for water results depicts New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your well for both the May 2012 sampling event and the prior December 2011 sampling event.

The dissolved methane concentration in the water sample from May 2012 was slightly higher than the concentration in the sample from the December 2011 sampling event [10,100 micrograms per liter (ug/L) versus 9,230 ug/L]. The hydrogen sulfide concentration in a headspace sample was also slightly higher in May 2012 as compared to December 2011 (160 ppmv versus 150 ppmv). The differences may be the result of variation of sampling technique, barometric pressure or water level in the well.

ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the source for the methane and hydrogen sulfide that have impacted your well. The results of the May 2012 sampling event for your water well have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD, 1000 Rio Brazos RD, Aztec, NM 87410

Enclosures

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03250 - GOOD

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03250	GW-074922-120211-CM-2566	12/20/2011	9,230	< 0.20	< 0.50	167	< 1.0	< 1.0	< 1.0	< 3.0	363	< 1.0	< 1.0	127	218,000	11,200	2,910	303,000	234	1,810	1.7	< 1.0	8.3	1,170
	GW-074922-052212-CM-03250-2	05/22/2012	10,100	NA	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	26.9	< 1.0	< 1.0	119	193,000	11,300	2,890	306,000	222	1,760	< 0.50	< 1.0	8.1	1,080
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03250	GW-074922-120211-CM-2566	12/20/2011	-103.8	-13.70
	GW-074922-052212-CM-03250-2	05/22/2012	-104.9	-13.74
03250(2)	Dry Well			

ISOTOPE AIR/GAS RESULTS

			Helium	Hydrogen	Argon	Oxygen	Nitrogen	Carbon Dioxide			Methane			Ethane			Propane	Propylene	Iso-butane	N-butane	Iso-pentane	N-pentane	Hexanes+		
Well ID	Sample ID	Date	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	Chemical mol. %	BTU/cu.ft.	Specific Gravity
03250	A-074922-120211-CM-2566	12/02/2012	0.0036	--	0.0312	0.17	2.37	1.46	--	--	94.2	-36.44	-174.7	1.53	-23.73	-138.0	0.174	0.0002	0.0344	0.0171	0.0075	0.0024	0.0031	989	0.589
	A-074922-052412-CM-03250-2	05/24/2012	0.0047	--	0.0350	0.17	2.58	1.46	-14.83	--	93.95	-36.48	-176.5	1.57	-23.79	-133.6	0.170		0.0342	0.0166	0.0069	0.0022	0.0023	987	0.590
03250(2)	A-074922-052412-CM-3250(2)-1	05/24/2012	0.0016	--	0.993	19.13	79.23	0.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1.001

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03250	A-074922-120211-CM-2566	12/02/2012	150	< 10
	A-074922-052412-CM-03250-2	05/24/2012	160	1.6
03250(2)	A-074922-052412-CM-3250(2)-1	05/24/2012	< 0.42	< 0.0021

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
CONOCOPHILLIPS COMPANY
03250 - GOOD

AIR TO-15 RESULTS				
Well ID→	03250			03250(2)
Sample ID→	A-074922-120211-CM-2566	A-074922-052412-CM-03250-2	A-074922-052412-CM-DUP	A-074922-052412-CM-03250(2)-1
Date→	12/02/2011	05/24/2012	05/24/2012	05/24/2012
Constituents ↓	Results in ug/m3			
Acetone	< 281	< 6,500	< 1,600	225
Benzene	< 190	< 8,710	< 2,200	73.4
Bromodichloromethane	< 820	< 18,300	< 4,600	7.7
Bromomethane	< 463	< 10,600	< 2,700	6.3
2-Butanone	< 351	< 8,060	< 2,000	21.7
Carbon disulfide	< 369	< 8,490	< 2,100	9.7
Carbon tetrachloride	< 375	< 17,200	< 4,300	7.7
Chloroethane	< 316	< 7,200	< 1,800	< 2.8
Chloroform	< 580	< 13,300	< 3,300	17.4
Chloromethane	< 246	< 5,640	< 1,400	28.0
Cyclohexane	25,900	< 9,410	21,200	59.0
Dichlorodifluoromethane	< 586	< 23,300	< 3,400	6.7
1,4-Dichlorobenzene	< 703	< 16,500	< 4,100	< 6.4
1,2 - Dichloroethane	< 240	< 11,100	< 2,800	< 4.3
1,1 - Dichloroethene	< 474	< 10,900	< 2,700	4.5
cis - 1,2 - Dichloroethene	< 474	< 10,900	< 2,700	84.1
trans - 1,2 - Dichloroethene	< 474	< 10,900	< 2,700	4.4
trans - 1,3 - Dichloropropene	< 539	< 12,400	< 3,100	4.9
Dichlorotetrafluorethane	< 820	< 19,100	< 4,800	8.6
Ethanol	< 1,110	< 5,160	NA	28.6
Ethylbenzene	< 515	< 11,900	< 3,000	10.9
4 -Ethyltoluene	< 1,460	< 13,400	< 3,400	8.5
n-Heptane	4,970	< 11,200	3,040	44.8
Hexachloro-1,3-butadiene	< 1,290	< 29,100	< 7,300	24.5
n-Hexane	23,300	< 9,620	23,600	79.9
Methylene Chloride	< 416	< 9,520	< 2,400	< 3.7
4-methyl-2-pentanone	< 486	< 11,200	< 2,800	7.0
Naphthalene	< 1,580	< 14,300	< 3,600	7.7
2-propanol	< 1,460	< 6,720	NA	7.0
Styrene	< 509	< 11,600	< 2,900	8.2
1,1,2,2-Tetrachloroethane	< 409	< 18,800	< 4,700	7.7
Tetrahydrofuran	< 351	< 8,060	< 2,000	16.6
Toluene	< 451	< 10,300	< 2,600	56.2
1,2,4-Trichlorobenzene	< 580	< 20,300	< 5,100	9.8
1,1,2-Trichloroethane	< 322	< 14,900	< 3,700	6.2
Trichloroethene	< 322	< 14,700	< 3,700	143
Trichlorofluoromethane	< 644	< 15,400	< 3,800	9.1
1,1,2-Trichlorotrifluoroethane	< 937	< 20,900	< 5,200	12.0
1,2,4-Trimethylbenzene	< 585	< 13,400	< 3,400	11.8
1,3,5-Trimethylbenzene	< 585	< 13,400	< 3,400	9.6
Vinyl Chloride	< 152	< 6,990	< 1,700	4.8
THC as Gas	837,000	< 820,000	1,940,000	13,000
Xylenes	< 1,545	< 35,600	< 8,900	40.8

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume

Sample ID
A-074922-052412-CM-03250-2
A-074922-052421-CM-03250(2)-1
GW-074922-052212-CM-03250-2

Resident
James Good

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 19, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: Project 6 Area 6
Pace Project No.: 60125297

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between May 25, 2012 and May 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: Project 6 Area 6
Pace Project No.: 60125297

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: Project 6 Area 6
Pace Project No.: 60125297

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60122079006	A-074922-052412-CM-03250(2)-1	Air	05/24/12 12:00	05/25/12 09:08
60122079007	A-074922-052412-CM-03250-2	Air	05/24/12 09:35	05/25/12 09:08
60122079010	GW-074922-052212-CM-03250-2	Water	05/22/12 10:35	05/26/12 10:00
60122228006	A-074922-052412-CM-03250(2)-1	Air	05/24/12 12:00	05/25/12 10:01
60122228007	A-074922-052412-CM-03250-2	Air	05/24/12 09:35	05/25/12 10:01

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SAMPLE ANALYTE COUNT

Project: Project 6 Area 6
Pace Project No.: 60125297

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60122079010	**GW-074922-052212-CM-03250-2**	RSK 175	SK4	1	PASI-M
		EPA 8015B	SDR	3	PASI-K
		EPA 6010	SMW	5	PASI-K
		EPA 5030B/8260	JDM	70	PASI-K
		SM 2320B	AJM	2	PASI-K
		SM 2540C	DJR	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	OL	3	PASI-K
60122228006	**A-074922-052412-CM-03250(2)-1**	TO-15	DR1	61	PASI-M
60122228007	**A-074922-052412-CM-03250-2**	TO-15	DR1	61	PASI-M

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: AIR/14993

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1208052)
  - Methane
- MSD (Lab ID: 1208053)
  - Methane

R1: RPD value was outside control limits.

- MSD (Lab ID: 1208053)
  - Methane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

Analyte Comments:

QC Batch: AIR/14993

1e: 107.02 TIMES SPIKE AMOUNT.
- MS (Lab ID: 1208052)
  - Methane

2e: 299.26 TIMES SPIKE AMOUNT
- MSD (Lab ID: 1208053)
  - Methane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- GW-074922-052212-CM-03250-2 (Lab ID: 60122079010)
  - Methane
- MSD (Lab ID: 1208053)
  - Methane

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **TO-15**
Description: TO15 MSV AIR - Ambient
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

A3: The sample was analyzed by serial dilution.
- A-074922-052412-CM-03250-2 (Lab ID: 60122228007)

Analyte Comments:

QC Batch: AIR/15343

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- A-074922-052412-CM-03250-2 (Lab ID: 60122228007)
  - Dichlorodifluoromethane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- A-074922-052412-CM-03250(2)-1 (Lab ID: 60122228006)
  - Acetone

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/12529

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/18210

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60122079010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1006348)
  - Sodium, Dissolved
- MSD (Lab ID: 1006349)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MSV/45992

B: Analyte was detected in the associated method blank.
- GW-074922-052212-CM-03250-2 (Lab ID: 60122079010)
  - Chloroform

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/35295

B: Analyte was detected in the associated method blank.
- GW-074922-052212-CM-03250-2 (Lab ID: 60122079010)
  - Alkalinity,Bicarbonate (CaCO3)
  - Alkalinity, Total as CaCO3

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Project 6 Area 6
Pace Project No.: 60125297

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: GW-074922-052212-CM-03250-2 **Lab ID: 60122079010** Collected: 05/22/12 10:35 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**10100**	ug/L	6.6	0.69	1		05/29/12 17:04	74-82-8	E
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.097	1	05/29/12 00:00	06/04/12 23:15		
Surrogates									
p-Terphenyl (S)	69	%	40-118		1	05/29/12 00:00	06/04/12 23:15	92-94-4	
n-Tetracosane (S)	80	%	36-120		1	05/29/12 00:00	06/04/12 23:15	646-31-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**119**	ug/L	100	1.8	1	05/31/12 15:50	06/06/12 13:12	7440-42-8	
Calcium, Dissolved	**193000**	ug/L	100	35.8	1	05/31/12 15:50	06/06/12 13:12	7440-70-2	
Magnesium, Dissolved	**11300**	ug/L	50.0	17.2	1	05/31/12 15:50	06/06/12 13:12	7439-95-4	
Potassium, Dissolved	**2890**	ug/L	500	64.1	1	05/31/12 15:50	06/06/12 13:12	7440-09-7	
Sodium, Dissolved	**306000**	ug/L	500	40.1	1	05/31/12 15:50	06/06/12 13:12	7440-23-5	M1
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	2.2	1		06/03/12 15:43	67-64-1	
Benzene	ND	ug/L	1.0	0.070	1		06/03/12 15:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.064	1		06/03/12 15:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.10	1		06/03/12 15:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		06/03/12 15:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.15	1		06/03/12 15:43	75-25-2	
Bromomethane	ND	ug/L	1.0	0.22	1		06/03/12 15:43	74-83-9	
2-Butanone (MEK)	**26.9**	ug/L	10.0	0.41	1		06/03/12 15:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.078	1		06/03/12 15:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.047	1		06/03/12 15:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.066	1		06/03/12 15:43	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.053	1		06/03/12 15:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.23	1		06/03/12 15:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.093	1		06/03/12 15:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.19	1		06/03/12 15:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.087	1		06/03/12 15:43	67-66-3	B
Chloromethane	ND	ug/L	1.0	0.24	1		06/03/12 15:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.19	1		06/03/12 15:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		06/03/12 15:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.66	1		06/03/12 15:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.091	1		06/03/12 15:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.13	1		06/03/12 15:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.12	1		06/03/12 15:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.077	1		06/03/12 15:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.068	1		06/03/12 15:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.072	1		06/03/12 15:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.15	1		06/03/12 15:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.079	1		06/03/12 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.080	1		06/03/12 15:43	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: GW-074922-052212-CM-03250-2 **Lab ID: 60122079010** Collected: 05/22/12 10:35 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		06/03/12 15:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		06/03/12 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.086	1		06/03/12 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.085	1		06/03/12 15:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.045	1		06/03/12 15:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.097	1		06/03/12 15:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.11	1		06/03/12 15:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.088	1		06/03/12 15:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.066	1		06/03/12 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.080	1		06/03/12 15:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.078	1		06/03/12 15:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.11	1		06/03/12 15:43	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.50	1		06/03/12 15:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.069	1		06/03/12 15:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.065	1		06/03/12 15:43	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.12	1		06/03/12 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.33	1		06/03/12 15:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.077	1		06/03/12 15:43	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.14	1		06/03/12 15:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.071	1		06/03/12 15:43	103-65-1	
Styrene	ND	ug/L	1.0	0.080	1		06/03/12 15:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		06/03/12 15:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		06/03/12 15:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.073	1		06/03/12 15:43	127-18-4	
Toluene	ND	ug/L	1.0	0.064	1		06/03/12 15:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		06/03/12 15:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		06/03/12 15:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.13	1		06/03/12 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		06/03/12 15:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.064	1		06/03/12 15:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.064	1		06/03/12 15:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.36	1		06/03/12 15:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.060	1		06/03/12 15:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.094	1		06/03/12 15:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.068	1		06/03/12 15:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		06/03/12 15:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	87-113		1		06/03/12 15:43	460-00-4	
Dibromofluoromethane (S)	100	%	86-112		1		06/03/12 15:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	82-119		1		06/03/12 15:43	17060-07-0	
Toluene-d8 (S)	97	%	90-110		1		06/03/12 15:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		06/03/12 15:43		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**222**	mg/L	20.0	3.8	1		05/31/12 10:45		B

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: GW-074922-052212-CM-03250-2 **Lab ID: 60122079010** Collected: 05/22/12 10:35 Received: 05/26/12 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**222**	mg/L	20.0	3.8	1		05/31/12 10:45		B
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1760**	mg/L	5.0	5.0	1		05/29/12 09:57		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		05/29/12 16:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.059	1		06/07/12 21:34	24959-67-9	
Chloride	**8.1**	mg/L	1.0	0.056	1		06/07/12 21:34	16887-00-6	
Sulfate	**1080**	mg/L	200	30.0	200		06/08/12 11:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: A-074922-052412-CM-03250(2)-1 **Lab ID: 60122228006** Collected: 05/24/12 12:00 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
Acetone	**225**	ug/m3	2.5	1.3	2.1		06/04/12 20:25	67-64-1	E
Benzene	**73.4**	ug/m3	3.4	1.7	2.1		06/04/12 20:25	71-43-2	
Benzyl chloride	ND	ug/m3	5.5	2.8	2.1		06/04/12 20:25	100-44-7	
Bromodichloromethane	**7.7**	ug/m3	7.2	3.6	2.1		06/04/12 20:25	75-27-4	
Bromoform	ND	ug/m3	11.0	5.5	2.1		06/04/12 20:25	75-25-2	
Bromomethane	**6.3**	ug/m3	4.1	2.1	2.1		06/04/12 20:25	74-83-9	
1,3-Butadiene	ND	ug/m3	2.4	1.2	2.1		06/04/12 20:25	106-99-0	
2-Butanone (MEK)	**21.7**	ug/m3	3.2	1.6	2.1		06/04/12 20:25	78-93-3	
Carbon disulfide	**9.7**	ug/m3	3.3	1.7	2.1		06/04/12 20:25	75-15-0	
Carbon tetrachloride	**7.7**	ug/m3	6.7	3.4	2.1		06/04/12 20:25	56-23-5	
Chlorobenzene	ND	ug/m3	4.9	2.5	2.1		06/04/12 20:25	108-90-7	
Chloroethane	ND	ug/m3	2.8	1.4	2.1		06/04/12 20:25	75-00-3	
Chloroform	**17.4**	ug/m3	5.2	2.6	2.1		06/04/12 20:25	67-66-3	
Chloromethane	**28.0**	ug/m3	2.2	1.1	2.1		06/04/12 20:25	74-87-3	
Cyclohexane	**59.0**	ug/m3	3.7	1.8	2.1		06/04/12 20:25	110-82-7	
Dibromochloromethane	ND	ug/m3	9.1	4.5	2.1		06/04/12 20:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	8.2	4.1	2.1		06/04/12 20:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/04/12 20:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/04/12 20:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.4	3.2	2.1		06/04/12 20:25	106-46-7	
Dichlorodifluoromethane	**6.7**	ug/m3	5.3	2.6	2.1		06/04/12 20:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4.3	2.2	2.1		06/04/12 20:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	4.3	2.2	2.1		06/04/12 20:25	107-06-2	
1,1-Dichloroethene	**4.5**	ug/m3	4.2	2.1	2.1		06/04/12 20:25	75-35-4	
cis-1,2-Dichloroethene	**84.1**	ug/m3	4.2	2.1	2.1		06/04/12 20:25	156-59-2	
trans-1,2-Dichloroethene	**4.4**	ug/m3	4.2	2.1	2.1		06/04/12 20:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.9	2.5	2.1		06/04/12 20:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.9	2.4	2.1		06/04/12 20:25	10061-01-5	
trans-1,3-Dichloropropene	**4.9**	ug/m3	4.9	2.4	2.1		06/04/12 20:25	10061-02-6	
Dichlorotetrafluoroethane	**8.6**	ug/m3	7.5	3.7	2.1		06/04/12 20:25	76-14-2	
Ethanol	**28.6**	ug/m3	2.0	1.0	2.1		06/04/12 20:25	64-17-5	
Ethyl acetate	ND	ug/m3	3.8	1.9	2.1		06/04/12 20:25	141-78-6	
Ethylbenzene	**10.9**	ug/m3	4.6	2.3	2.1		06/04/12 20:25	100-41-4	
4-Ethyltoluene	**8.5**	ug/m3	5.2	2.6	2.1		06/04/12 20:25	622-96-8	
n-Heptane	**44.8**	ug/m3	4.4	2.2	2.1		06/04/12 20:25	142-82-5	
Hexachloro-1,3-butadiene	**24.5**	ug/m3	11.4	5.7	2.1		06/04/12 20:25	87-68-3	
n-Hexane	**79.9**	ug/m3	3.8	1.9	2.1		06/04/12 20:25	110-54-3	
2-Hexanone	ND	ug/m3	4.4	2.2	2.1		06/04/12 20:25	591-78-6	
Methylene Chloride	ND	ug/m3	3.7	1.9	2.1		06/04/12 20:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.0**	ug/m3	4.4	2.2	2.1		06/04/12 20:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.7	3.8	2.1		06/04/12 20:25	1634-04-4	
Naphthalene	**7.7**	ug/m3	5.6	2.8	2.1		06/04/12 20:25	91-20-3	
2-Propanol	**7.0**	ug/m3	2.6	1.3	2.1		06/04/12 20:25	67-63-0	
Propylene	ND	ug/m3	7.4	3.7	2.1		06/04/12 20:25	115-07-1	
Styrene	**8.2**	ug/m3	4.5	2.3	2.1		06/04/12 20:25	100-42-5	

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: A-074922-052412-CM-03250(2)-1 **Lab ID: 60122228006** Collected: 05/24/12 12:00 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	**7.7**	ug/m3	7.3	3.7	2.1		06/04/12 20:25	79-34-5	
Tetrachloroethene	ND	ug/m3	7.2	3.6	2.1		06/04/12 20:25	127-18-4	
Tetrahydrofuran	**16.6**	ug/m3	3.2	1.6	2.1		06/04/12 20:25	109-99-9	
Toluene	**56.2**	ug/m3	4.0	2.0	2.1		06/04/12 20:25	108-88-3	
1,2,4-Trichlorobenzene	**9.8**	ug/m3	7.9	4.0	2.1		06/04/12 20:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.8	2.9	2.1		06/04/12 20:25	71-55-6	
1,1,2-Trichloroethane	**6.2**	ug/m3	5.8	2.9	2.1		06/04/12 20:25	79-00-5	
Trichloroethene	**143**	ug/m3	5.7	2.9	2.1		06/04/12 20:25	79-01-6	
Trichlorofluoromethane	**9.1**	ug/m3	6.0	3.0	2.1		06/04/12 20:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**12.0**	ug/m3	8.2	4.1	2.1		06/04/12 20:25	76-13-1	
1,2,4-Trimethylbenzene	**11.8**	ug/m3	5.2	2.6	2.1		06/04/12 20:25	95-63-6	
1,3,5-Trimethylbenzene	**9.6**	ug/m3	5.2	2.6	2.1		06/04/12 20:25	108-67-8	
Vinyl acetate	ND	ug/m3	3.8	1.9	2.1		06/04/12 20:25	108-05-4	
Vinyl chloride	**4.8**	ug/m3	2.7	1.4	2.1		06/04/12 20:25	75-01-4	
m&p-Xylene	**29.7**	ug/m3	9.3	4.6	2.1		06/04/12 20:25	179601-23-1	
o-Xylene	**11.1**	ug/m3	4.6	2.3	2.1		06/04/12 20:25	95-47-6	

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: A-074922-052412-CM-03250-2 **Lab ID: 60122228007** Collected: 05/24/12 09:35 Received: 05/25/12 10:01 Matrix: Air

Comments: • The sample was analyzed by serial dilution.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
Acetone	ND	ug/m3	6500	3250	5376		06/04/12 23:20	67-64-1	
Benzene	ND	ug/m3	8710	4350	5376		06/04/12 23:20	71-43-2	
Benzyl chloride	ND	ug/m3	14100	7070	5376		06/04/12 23:20	100-44-7	
Bromodichloromethane	ND	ug/m3	18300	9170	5376		06/04/12 23:20	75-27-4	
Bromoform	ND	ug/m3	28200	14100	5376		06/04/12 23:20	75-25-2	
Bromomethane	ND	ug/m3	10600	5300	5376		06/04/12 23:20	74-83-9	
1,3-Butadiene	ND	ug/m3	6020	3010	5376		06/04/12 23:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	8060	4030	5376		06/04/12 23:20	78-93-3	
Carbon disulfide	ND	ug/m3	8490	4250	5376		06/04/12 23:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	17200	8600	5376		06/04/12 23:20	56-23-5	
Chlorobenzene	ND	ug/m3	12600	6290	5376		06/04/12 23:20	108-90-7	
Chloroethane	ND	ug/m3	7200	3600	5376		06/04/12 23:20	75-00-3	
Chloroform	ND	ug/m3	13300	6670	5376		06/04/12 23:20	67-66-3	
Chloromethane	ND	ug/m3	5640	2820	5376		06/04/12 23:20	74-87-3	
Cyclohexane	ND	ug/m3	9410	4700	5376		06/04/12 23:20	110-82-7	
Dibromochloromethane	ND	ug/m3	23300	11600	5376		06/04/12 23:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	21000	10500	5376		06/04/12 23:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	16500	8230	5376		06/04/12 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	16500	8230	5376		06/04/12 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	16500	8230	5376		06/04/12 23:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	13500	6750	5376		06/04/12 23:20	75-71-8	D3
1,1-Dichloroethane	ND	ug/m3	11100	5540	5376		06/04/12 23:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11100	5540	5376		06/04/12 23:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	10900	5430	5376		06/04/12 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	10900	5430	5376		06/04/12 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	10900	5430	5376		06/04/12 23:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	12600	6320	5376		06/04/12 23:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	12400	6210	5376		06/04/12 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	12400	6210	5376		06/04/12 23:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	19100	9540	5376		06/04/12 23:20	76-14-2	
Ethanol	ND	ug/m3	5160	2580	5376		06/04/12 23:20	64-17-5	
Ethyl acetate	ND	ug/m3	9840	4920	5376		06/04/12 23:20	141-78-6	
Ethylbenzene	ND	ug/m3	11900	5940	5376		06/04/12 23:20	100-41-4	
4-Ethyltoluene	ND	ug/m3	13400	6720	5376		06/04/12 23:20	622-96-8	
n-Heptane	ND	ug/m3	11200	5590	5376		06/04/12 23:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	29100	14600	5376		06/04/12 23:20	87-68-3	
n-Hexane	ND	ug/m3	9620	4810	5376		06/04/12 23:20	110-54-3	
2-Hexanone	ND	ug/m3	11200	5590	5376		06/04/12 23:20	591-78-6	
Methylene Chloride	ND	ug/m3	9520	4760	5376		06/04/12 23:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	11200	5590	5376		06/04/12 23:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	19700	9840	5376		06/04/12 23:20	1634-04-4	
Naphthalene	ND	ug/m3	14300	7150	5376		06/04/12 23:20	91-20-3	
2-Propanol	ND	ug/m3	6720	3360	5376		06/04/12 23:20	67-63-0	
Propylene	ND	ug/m3	18800	9410	5376		06/04/12 23:20	115-07-1	

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ANALYTICAL RESULTS

Project: Project 6 Area 6
Pace Project No.: 60125297

Sample: A-074922-052412-CM-03250-2 **Lab ID: 60122228007** Collected: 05/24/12 09:35 Received: 05/25/12 10:01 Matrix: Air

Comments: • The sample was analyzed by serial dilution.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15								
Styrene	ND	ug/m3	11600	5810	5376		06/04/12 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	18800	9380	5376		06/04/12 23:20	79-34-5	
Tetrachloroethene	ND	ug/m3	18500	9270	5376		06/04/12 23:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	8060	4030	5376		06/04/12 23:20	109-99-9	
Toluene	ND	ug/m3	10300	5160	5376		06/04/12 23:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	20300	10100	5376		06/04/12 23:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	14900	7450	5376		06/04/12 23:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14900	7450	5376		06/04/12 23:20	79-00-5	
Trichloroethene	ND	ug/m3	14700	7340	5376		06/04/12 23:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	15400	7690	5376		06/04/12 23:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	20900	10500	5376		06/04/12 23:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	13400	6720	5376		06/04/12 23:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	13400	6720	5376		06/04/12 23:20	108-67-8	
Vinyl acetate	ND	ug/m3	9620	4810	5376		06/04/12 23:20	108-05-4	
Vinyl chloride	ND	ug/m3	6990	3490	5376		06/04/12 23:20	75-01-4	
m&p-Xylene	ND	ug/m3	23700	11900	5376		06/04/12 23:20	179601-23-1	
o-Xylene	ND	ug/m3	11900	5940	5376		06/04/12 23:20	95-47-6	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: AIR/14993
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60122079010

METHOD BLANK: 1206739 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	6.6	05/29/12 14:36	

LABORATORY CONTROL SAMPLE & LCSD: 1206740 1206741

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	56.9	57.6	94	95	70-130	1	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208052 1208053

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	10100	60.7	57.8	6490	17300	-5900	12500	30-150	91	30	1e,2e, E,M0, R1

SAMPLE DUPLICATE: 1208051

Parameter	Units	4060818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	9.0	9.6	6	30	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: AIR/15343
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR - AMBIENT
Associated Lab Samples: 60122228006, 60122228007

METHOD BLANK: 1243212
Matrix: Air
Associated Lab Samples: 60122228006, 60122228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	2.8	06/04/12 16:02	
1,1,2,2-Tetrachloroethane	ug/m3	ND	3.5	06/04/12 16:02	
1,1,2-Trichloroethane	ug/m3	ND	2.8	06/04/12 16:02	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	3.9	06/04/12 16:02	
1,1-Dichloroethane	ug/m3	ND	2.1	06/04/12 16:02	
1,1-Dichloroethene	ug/m3	ND	2.0	06/04/12 16:02	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	06/04/12 16:02	
1,2,4-Trimethylbenzene	ug/m3	ND	2.5	06/04/12 16:02	
1,2-Dibromoethane (EDB)	ug/m3	ND	3.9	06/04/12 16:02	
1,2-Dichlorobenzene	ug/m3	ND	3.1	06/04/12 16:02	
1,2-Dichloroethane	ug/m3	ND	2.1	06/04/12 16:02	
1,2-Dichloropropane	ug/m3	ND	2.4	06/04/12 16:02	
1,3,5-Trimethylbenzene	ug/m3	ND	2.5	06/04/12 16:02	
1,3-Butadiene	ug/m3	ND	1.1	06/04/12 16:02	
1,3-Dichlorobenzene	ug/m3	ND	3.1	06/04/12 16:02	
1,4-Dichlorobenzene	ug/m3	ND	3.1	06/04/12 16:02	
2-Butanone (MEK)	ug/m3	ND	1.5	06/04/12 16:02	
2-Hexanone	ug/m3	ND	2.1	06/04/12 16:02	
2-Propanol	ug/m3	ND	1.2	06/04/12 16:02	
4-Ethyltoluene	ug/m3	ND	2.5	06/04/12 16:02	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	06/04/12 16:02	
Acetone	ug/m3	ND	1.2	06/04/12 16:02	
Benzene	ug/m3	ND	1.6	06/04/12 16:02	
Benzyl chloride	ug/m3	ND	2.6	06/04/12 16:02	
Bromodichloromethane	ug/m3	ND	3.4	06/04/12 16:02	
Bromoform	ug/m3	ND	5.2	06/04/12 16:02	
Bromomethane	ug/m3	ND	2.0	06/04/12 16:02	
Carbon disulfide	ug/m3	ND	1.6	06/04/12 16:02	
Carbon tetrachloride	ug/m3	ND	3.2	06/04/12 16:02	
Chlorobenzene	ug/m3	ND	2.3	06/04/12 16:02	
Chloroethane	ug/m3	ND	1.3	06/04/12 16:02	
Chloroform	ug/m3	ND	2.5	06/04/12 16:02	
Chloromethane	ug/m3	ND	1.0	06/04/12 16:02	
cis-1,2-Dichloroethene	ug/m3	ND	2.0	06/04/12 16:02	
cis-1,3-Dichloropropene	ug/m3	ND	2.3	06/04/12 16:02	
Cyclohexane	ug/m3	ND	1.8	06/04/12 16:02	
Dibromochloromethane	ug/m3	ND	4.3	06/04/12 16:02	
Dichlorodifluoromethane	ug/m3	ND	2.5	06/04/12 16:02	
Dichlorotetrafluoroethane	ug/m3	ND	3.6	06/04/12 16:02	
Ethanol	ug/m3	ND	0.96	06/04/12 16:02	
Ethyl acetate	ug/m3	ND	1.8	06/04/12 16:02	
Ethylbenzene	ug/m3	ND	2.2	06/04/12 16:02	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	06/04/12 16:02	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

METHOD BLANK: 1243212 Matrix: Air

Associated Lab Samples: 60122228006, 60122228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	4.4	06/04/12 16:02	
Methyl-tert-butyl ether	ug/m3	ND	3.7	06/04/12 16:02	
Methylene Chloride	ug/m3	ND	1.8	06/04/12 16:02	
n-Heptane	ug/m3	ND	2.1	06/04/12 16:02	
n-Hexane	ug/m3	ND	1.8	06/04/12 16:02	
Naphthalene	ug/m3	ND	2.7	06/04/12 16:02	
o-Xylene	ug/m3	ND	2.2	06/04/12 16:02	
Propylene	ug/m3	ND	3.5	06/04/12 16:02	
Styrene	ug/m3	ND	2.2	06/04/12 16:02	
Tetrachloroethene	ug/m3	ND	3.4	06/04/12 16:02	
Tetrahydrofuran	ug/m3	ND	1.5	06/04/12 16:02	
Toluene	ug/m3	ND	1.9	06/04/12 16:02	
trans-1,2-Dichloroethene	ug/m3	ND	2.0	06/04/12 16:02	
trans-1,3-Dichloropropene	ug/m3	ND	2.3	06/04/12 16:02	
Trichloroethene	ug/m3	ND	2.7	06/04/12 16:02	
Trichlorofluoromethane	ug/m3	ND	2.9	06/04/12 16:02	
Vinyl acetate	ug/m3	ND	1.8	06/04/12 16:02	
Vinyl chloride	ug/m3	ND	1.3	06/04/12 16:02	

LABORATORY CONTROL SAMPLE: 1243213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.8	119	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.5	95	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	49.8	90	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	74.3	95	65-132	
1,1-Dichloroethane	ug/m3	41.2	46.2	112	67-132	
1,1-Dichloroethene	ug/m3	40.3	36.0	89	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	86.8	115	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	52.1	104	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	76.3	98	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	65.2	107	71-132	
1,2-Dichloroethane	ug/m3	41.2	47.9	116	70-131	
1,2-Dichloropropane	ug/m3	47	40.8	87	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	59.2	118	70-133	
1,3-Butadiene	ug/m3	22.5	20.5	91	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	66.1	108	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	62.3	102	72-131	
2-Butanone (MEK)	ug/m3	30	28.3	94	69-131	
2-Hexanone	ug/m3	41.7	42.7	102	71-134	
2-Propanol	ug/m3	25	26.1	104	72-132	
4-Ethyltoluene	ug/m3	50	58.5	117	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	40.9	98	69-135	
Acetone	ug/m3	24.2	25.6	106	61-139	
Benzene	ug/m3	32.5	29.0	89	69-134	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

LABORATORY CONTROL SAMPLE: 1243213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzyl chloride	ug/m3	52.5	59.7	114	70-129	
Bromodichloromethane	ug/m3	68.2	64.8	95	71-130	
Bromoform	ug/m3	105	115	109	70-130	
Bromomethane	ug/m3	39.5	36.9	93	69-125	
Carbon disulfide	ug/m3	31.7	29.8	94	66-131	
Carbon tetrachloride	ug/m3	64	61.8	97	68-128	
Chlorobenzene	ug/m3	46.8	42.8	91	75-128	
Chloroethane	ug/m3	26.8	22.1	83	66-131	
Chloroform	ug/m3	49.7	44.3	89	68-132	
Chloromethane	ug/m3	21	18.6	88	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	36.3	90	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	44.9	97	74-134	
Cyclohexane	ug/m3	35	31.8	91	67-136	
Dibromochloromethane	ug/m3	86.6	86.8	100	69-131	
Dichlorodifluoromethane	ug/m3	50.3	49.9	99	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	67.5	95	66-130	
Ethanol	ug/m3	19.2	19.5	102	69-131	
Ethyl acetate	ug/m3	36.6	32.3	88	71-131	
Ethylbenzene	ug/m3	44.2	50.5	114	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	115	106	41-150	
m&p-Xylene	ug/m3	88.3	95.4	108	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	32.4	88	70-132	
Methylene Chloride	ug/m3	35.3	31.7	90	73-134	
n-Heptane	ug/m3	41.7	37.5	90	70-134	
n-Hexane	ug/m3	35.8	30.0	84	65-133	
Naphthalene	ug/m3	53.3	59.4	111	57-150	
o-Xylene	ug/m3	44.2	49.1	111	69-138	
Propylene	ug/m3	17.5	15.2	87	70-134	
Styrene	ug/m3	43.3	48.3	111	72-132	
Tetrachloroethene	ug/m3	69	62.3	90	70-130	
Tetrahydrofuran	ug/m3	30	27.6	92	74-128	
Toluene	ug/m3	38.3	35.9	94	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	35.0	87	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	49.3	107	73-130	
Trichloroethene	ug/m3	54.6	59.0	108	72-131	
Trichlorofluoromethane	ug/m3	57.1	57.7	101	66-129	
Vinyl acetate	ug/m3	35.8	33.1	92	71-131	
Vinyl chloride	ug/m3	26	26.9	104	70-131	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: MPRP/18210
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60122079010

METHOD BLANK: 1006346 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	06/06/12 13:08	
Calcium, Dissolved	ug/L	ND	100	06/06/12 13:08	
Magnesium, Dissolved	ug/L	ND	50.0	06/06/12 13:08	
Potassium, Dissolved	ug/L	ND	500	06/06/12 13:08	
Sodium, Dissolved	ug/L	ND	500	06/06/12 13:08	

LABORATORY CONTROL SAMPLE: 1006347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	949	95	80-120	
Calcium, Dissolved	ug/L	10000	9260	93	80-120	
Magnesium, Dissolved	ug/L	10000	9950	99	80-120	
Potassium, Dissolved	ug/L	10000	9960	100	80-120	
Sodium, Dissolved	ug/L	10000	9670	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1006348 1006349

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	119	1000	1000	1070	1090	95	97	75-125	2	20	
Calcium, Dissolved	ug/L	193000	10000	10000	201000	205000	76	120	75-125	2	20	
Magnesium, Dissolved	ug/L	11300	10000	10000	20700	21000	94	97	75-125	1	20	
Potassium, Dissolved	ug/L	2890	10000	10000	13000	13200	101	103	75-125	2	20	
Sodium, Dissolved	ug/L	306000	10000	10000	291000	296000	-154	-106	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: MSV/45992
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60122079010

METHOD BLANK: 1007054
Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
1,1-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/03/12 15:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/03/12 15:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/03/12 15:27	
1,2-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
1,3-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
2,2-Dichloropropane	ug/L	ND	1.0	06/03/12 15:27	
2-Butanone (MEK)	ug/L	ND	10.0	06/03/12 15:27	
2-Chlorotoluene	ug/L	ND	1.0	06/03/12 15:27	
2-Hexanone	ug/L	ND	10.0	06/03/12 15:27	
4-Chlorotoluene	ug/L	ND	1.0	06/03/12 15:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/03/12 15:27	
Acetone	ug/L	ND	10.0	06/03/12 15:27	
Benzene	ug/L	ND	1.0	06/03/12 15:27	
Bromobenzene	ug/L	ND	1.0	06/03/12 15:27	
Bromochloromethane	ug/L	ND	1.0	06/03/12 15:27	
Bromodichloromethane	ug/L	ND	1.0	06/03/12 15:27	
Bromoform	ug/L	ND	1.0	06/03/12 15:27	
Bromomethane	ug/L	ND	1.0	06/03/12 15:27	
Carbon disulfide	ug/L	ND	5.0	06/03/12 15:27	
Carbon tetrachloride	ug/L	ND	1.0	06/03/12 15:27	
Chlorobenzene	ug/L	ND	1.0	06/03/12 15:27	
Chloroethane	ug/L	ND	1.0	06/03/12 15:27	
Chloroform	ug/L	ND	1.0	06/03/12 15:27	
Chloromethane	ug/L	ND	1.0	06/03/12 15:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
Dibromochloromethane	ug/L	ND	1.0	06/03/12 15:27	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

METHOD BLANK: 1007054 Matrix: Water

Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	06/03/12 15:27	
Dichlorodifluoromethane	ug/L	ND	1.0	06/03/12 15:27	
Ethylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/03/12 15:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/03/12 15:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/03/12 15:27	
Methylene chloride	ug/L	ND	1.0	06/03/12 15:27	
n-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
n-Propylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Naphthalene	ug/L	ND	10.0	06/03/12 15:27	
p-Isopropyltoluene	ug/L	ND	1.0	06/03/12 15:27	
sec-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Styrene	ug/L	ND	1.0	06/03/12 15:27	
tert-Butylbenzene	ug/L	ND	1.0	06/03/12 15:27	
Tetrachloroethene	ug/L	ND	1.0	06/03/12 15:27	
Toluene	ug/L	ND	1.0	06/03/12 15:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/03/12 15:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/03/12 15:27	
Trichloroethene	ug/L	ND	1.0	06/03/12 15:27	
Trichlorofluoromethane	ug/L	ND	1.0	06/03/12 15:27	
Vinyl chloride	ug/L	ND	1.0	06/03/12 15:27	
Xylene (Total)	ug/L	ND	3.0	06/03/12 15:27	
1,2-Dichloroethane-d4 (S)	%	101	82-119	06/03/12 15:27	
4-Bromofluorobenzene (S)	%	103	87-113	06/03/12 15:27	
Dibromofluoromethane (S)	%	99	86-112	06/03/12 15:27	
Toluene-d8 (S)	%	99	90-110	06/03/12 15:27	

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	106	81-121	
1,1,1-Trichloroethane	ug/L	20	20.3	102	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	21.2	106	78-124	
1,1,2-Trichloroethane	ug/L	20	22.3	112	79-121	
1,1-Dichloroethane	ug/L	20	19.4	97	73-119	
1,1-Dichloroethene	ug/L	20	18.4	92	75-120	
1,1-Dichloropropene	ug/L	20	20.7	103	79-123	
1,2,3-Trichlorobenzene	ug/L	20	23.5	118	73-122	
1,2,3-Trichloropropane	ug/L	20	23.0	115	77-124	
1,2,4-Trichlorobenzene	ug/L	20	22.6	113	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.9	104	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.9	109	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	22.3	112	85-121	
1,2-Dichlorobenzene	ug/L	20	21.4	107	82-115	
1,2-Dichloroethane	ug/L	20	21.9	110	77-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.0	97	79-120	
1,2-Dichloropropane	ug/L	20	21.2	106	83-119	
1,3,5-Trimethylbenzene	ug/L	20	20.5	103	79-121	
1,3-Dichlorobenzene	ug/L	20	20.8	104	79-117	
1,3-Dichloropropane	ug/L	20	21.7	108	78-116	
1,4-Dichlorobenzene	ug/L	20	21.3	106	83-115	
2,2-Dichloropropane	ug/L	20	22.2	111	66-123	
2-Butanone (MEK)	ug/L	100	111	111	43-165	
2-Chlorotoluene	ug/L	20	20.7	103	81-117	
2-Hexanone	ug/L	100	110	110	47-159	
4-Chlorotoluene	ug/L	20	20.6	103	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	71-129	
Acetone	ug/L	100	105	105	18-192	
Benzene	ug/L	20	20.2	101	82-117	
Bromobenzene	ug/L	20	20.9	105	83-116	
Bromochloromethane	ug/L	20	20.7	104	79-121	
Bromodichloromethane	ug/L	20	20.2	101	79-114	
Bromoform	ug/L	20	20.9	104	78-121	
Bromomethane	ug/L	20	17.9	89	36-146	
Carbon disulfide	ug/L	20	17.5	88	75-138	
Carbon tetrachloride	ug/L	20	20.0	100	80-123	
Chlorobenzene	ug/L	20	21.0	105	83-121	
Chloroethane	ug/L	20	19.4	97	42-166	
Chloroform	ug/L	20	21.2	106	82-116	
Chloromethane	ug/L	20	18.8	94	32-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-119	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	76-119	
Dibromochloromethane	ug/L	20	21.0	105	81-123	
Dibromomethane	ug/L	20	23.3	117	79-123	
Dichlorodifluoromethane	ug/L	20	16.8	84	10-163	
Ethylbenzene	ug/L	20	20.5	103	79-121	
Hexachloro-1,3-butadiene	ug/L	20	20.5	102	78-125	
Isopropylbenzene (Cumene)	ug/L	20	21.9	109	80-120	
Methyl-tert-butyl ether	ug/L	20	19.3	97	78-119	
Methylene chloride	ug/L	20	18.9	94	75-118	
n-Butylbenzene	ug/L	20	21.2	106	80-126	
n-Propylbenzene	ug/L	20	21.5	107	83-116	
Naphthalene	ug/L	20	22.9	114	66-133	
p-Isopropyltoluene	ug/L	20	20.9	105	77-120	
sec-Butylbenzene	ug/L	20	20.8	104	81-120	
Styrene	ug/L	20	21.2	106	84-115	
tert-Butylbenzene	ug/L	20	20.7	103	80-117	
Tetrachloroethene	ug/L	20	19.8	99	80-124	
Toluene	ug/L	20	20.6	103	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	79-120	
trans-1,3-Dichloropropene	ug/L	20	21.8	109	76-118	
Trichloroethene	ug/L	20	19.8	99	76-122	
Trichlorofluoromethane	ug/L	20	19.4	97	72-120	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

LABORATORY CONTROL SAMPLE: 1007055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	19.3	97	57-163	
Xylene (Total)	ug/L	60	64.5	108	75-120	
1,2-Dichloroethane-d4 (S)	%			99	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			102	86-112	
Toluene-d8 (S)	%			100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007056 1007057

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	21.1	103	106	56-124	3	26	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.4	21.9	102	110	57-128	7	27	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.7	20.9	114	105	48-137	8	26	
1,1,2-Trichloroethane	ug/L	ND	20	20	23.1	22.8	116	114	57-136	2	25	
1,1-Dichloroethane	ug/L	ND	20	20	20.3	20.9	101	105	55-130	3	27	
1,1-Dichloroethene	ug/L	ND	20	20	18.8	20.1	94	101	46-146	7	25	
1,1-Dichloropropene	ug/L	ND	20	20	19.6	21.4	98	107	57-137	9	27	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.6	21.3	103	107	41-136	3	22	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	20.4	108	102	56-136	5	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	21.0	99	105	32-140	6	26	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.3	20.4	97	102	42-133	5	23	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.5	21.0	112	105	36-167	7	29	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.5	20.5	107	102	45-155	5	21	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.5	20.4	102	102	54-125	0	19	
1,2-Dichloroethane	ug/L	ND	20	20	22.2	21.4	111	107	44-145	4	22	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	38.6	39.6	96	99	46-144	2	26	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	20.9	102	105	60-124	3	26	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	20.6	98	103	38-143	5	27	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	20.3	99	102	53-123	2	24	
1,3-Dichloropropane	ug/L	ND	20	20	21.9	21.7	109	108	61-130	1	27	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	20.1	99	100	53-121	1	25	
2,2-Dichloropropane	ug/L	ND	20	20	6.6	7.1	33	36	21-146	7	25	
2-Butanone (MEK)	ug/L	26.9	100	100	129	128	102	102	29-131	0	27	
2-Chlorotoluene	ug/L	ND	20	20	19.9	20.4	100	102	54-131	2	21	
2-Hexanone	ug/L	ND	100	100	103	104	103	104	41-137	1	24	
4-Chlorotoluene	ug/L	ND	20	20	20.1	20.6	100	103	56-130	2	22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	105	104	105	104	38-139	1	25	
Acetone	ug/L	ND	100	100	116	124	116	124	30-147	7	30	
Benzene	ug/L	ND	20	20	20.3	21.0	101	105	58-139	3	21	
Bromobenzene	ug/L	ND	20	20	20.1	20.3	101	102	57-123	1	21	
Bromochloromethane	ug/L	ND	20	20	20.2	20.8	101	104	56-127	3	24	
Bromodichloromethane	ug/L	ND	20	20	19.8	20.2	99	101	56-125	2	26	
Bromoform	ug/L	ND	20	20	20.1	20.4	101	102	41-132	2	21	
Bromomethane	ug/L	ND	20	20	13.2	14.9	66	75	11-162	12	30	
Carbon disulfide	ug/L	ND	20	20	16.8	18.1	84	90	28-155	7	25	
Carbon tetrachloride	ug/L	ND	20	20	19.4	21.5	97	108	54-138	10	23	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1007056 1007057

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	20.0	21.0	100	105	56-129	5	21	
Chloroethane	ug/L	ND	20	20	17.8	18.2	89	91	42-178	2	33	
Chloroform	ug/L	ND	20	20	21.1	21.5	105	107	55-130	2	23	
Chloromethane	ug/L	ND	20	20	15.8	16.3	79	81	39-141	3	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	20.7	101	104	34-152	3	26	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.0	17.1	85	85	49-128	1	23	
Dibromochloromethane	ug/L	ND	20	20	20.8	20.8	104	104	57-119	0	21	
Dibromomethane	ug/L	ND	20	20	22.0	22.0	110	110	58-123	0	26	
Dichlorodifluoromethane	ug/L	ND	20	20	11.4	12.8	57	64	13-152	12	33	
Ethylbenzene	ug/L	ND	20	20	19.0	20.4	95	102	56-138	7	19	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	16.9	19.3	84	96	34-141	13	27	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	20.6	96	103	49-120	7	19	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	19.5	98	98	35-140	0	20	
Methylene chloride	ug/L	ND	20	20	19.0	19.4	95	97	44-133	2	27	
n-Butylbenzene	ug/L	ND	20	20	17.6	19.3	88	96	44-138	9	27	
n-Propylbenzene	ug/L	ND	20	20	19.9	21.8	100	109	46-136	9	22	
Naphthalene	ug/L	ND	20	20	22.5	22.3	113	112	26-159	1	34	
p-Isopropyltoluene	ug/L	ND	20	20	18.7	20.0	93	100	47-129	7	23	
sec-Butylbenzene	ug/L	ND	20	20	18.7	20.8	94	104	51-138	10	23	
Styrene	ug/L	ND	20	20	19.8	20.7	99	103	31-162	5	26	
tert-Butylbenzene	ug/L	ND	20	20	19.1	21.0	95	105	54-135	10	22	
Tetrachloroethene	ug/L	ND	20	20	19.1	20.4	95	102	47-140	7	24	
Toluene	ug/L	ND	20	20	19.6	20.1	98	101	59-140	3	19	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.4	18.8	92	94	62-130	2	25	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.1	17.0	85	85	41-111	0	20	
Trichloroethene	ug/L	ND	20	20	18.8	19.6	94	98	37-148	4	25	
Trichlorofluoromethane	ug/L	ND	20	20	18.3	20.4	92	102	53-138	11	30	
Vinyl chloride	ug/L	ND	20	20	16.8	17.9	84	89	47-133	6	32	
Xylene (Total)	ug/L	ND	60	60	60.3	64.1	100	107	52-146	6	19	
1,2-Dichloroethane-d4 (S)	%						104	103	82-119			
4-Bromofluorobenzene (S)	%						102	99	87-113			
Dibromofluoromethane (S)	%						104	101	86-112			
Toluene-d8 (S)	%						100	100	90-110			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: OEXT/33332
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60122079010

METHOD BLANK: 1005185
Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	06/04/12 22:19	
n-Tetracosane (S)	%	78	36-120	06/04/12 22:19	
p-Terphenyl (S)	%	78	40-118	06/04/12 22:19	

LABORATORY CONTROL SAMPLE: 1005186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.1	82	48-119	
n-Tetracosane (S)	%			67	36-120	
p-Terphenyl (S)	%			73	40-118	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: WET/35295
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60122079010

METHOD BLANK: 1006241 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	05/31/12 10:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	20.0	05/31/12 10:45	

LABORATORY CONTROL SAMPLE: 1006242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 1006243

Parameter	Units	60121940001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	44.0	44.0	0	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	36.0	36.0	0	9	

SAMPLE DUPLICATE: 1006244

Parameter	Units	60122079010 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	222	226	2	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	222	226	2	9	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: WET/35248 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60122079010

METHOD BLANK: 1005167 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	05/29/12 09:56	

SAMPLE DUPLICATE: 1005168

Parameter	Units	60122063004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2370	2440	3	17	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: WET/35258
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60122079010

METHOD BLANK: 1005278 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	05/29/12 16:10	

LABORATORY CONTROL SAMPLE: 1005279

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.54	109	80-120	

MATRIX SPIKE SAMPLE: 1005280

Parameter	Units	60122079010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.56	111	75-125	

SAMPLE DUPLICATE: 1005281

Parameter	Units	60122079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

QC Batch: WETA/20466 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60122079010

METHOD BLANK: 1010005 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	06/07/12 17:12	
Chloride	mg/L	ND	1.0	06/07/12 17:12	
Sulfate	mg/L	ND	1.0	06/07/12 17:12	

METHOD BLANK: 1010613 Matrix: Water
Associated Lab Samples: 60122079010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	06/08/12 09:41	
Sulfate	mg/L	ND	1.0	06/08/12 09:41	

LABORATORY CONTROL SAMPLE: 1010006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.1	102	90-110	
Chloride	mg/L	5	4.9	99	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

LABORATORY CONTROL SAMPLE: 1010614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.7	94	90-110	
Sulfate	mg/L	5	4.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1010007 1010008

Parameter	Units	60122079010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	5	5	5.0	4.8	100	97	75-119	3	10	
Chloride	mg/L	8.1	5	5	12.3	12.4	85	87	64-118	1	12	
Sulfate	mg/L	1080	1000	1000	2070	2060	99	98	61-119	0	10	

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QUALITY CONTROL DATA

Project: Project 6 Area 6
Pace Project No.: 60125297

MATRIX SPIKE SAMPLE: 1010009

Parameter	Units	60122079014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	5	4.8	88	75-119	
Chloride	mg/L	5.6	5	10	89	64-118	
Sulfate	mg/L	2610	2500	5610	120	61-119	M6

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Project 6 Area 6
Pace Project No.: 60125297

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/33332

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	107.02 TIMES SPIKE AMOUNT.
2e	299.26 TIMES SPIKE AMOUNT
B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: Project 6 Area 6
Pace Project No.: 60125297

ANALYTE QUALIFIERS

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Project 6 Area 6
Pace Project No.: 60125297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60122079010	GW-074922-052212-CM-03250-2	RSK 175	AIR/14993		
60122228006	A-074922-052412-CM-03250(2)-1	TO-15	AIR/15343		
60122228007	A-074922-052412-CM-03250-2	TO-15	AIR/15343		
60122079010	GW-074922-052212-CM-03250-2	EPA 3510C	OEXT/33332	EPA 8015B	GCSV/12529
60122079010	GW-074922-052212-CM-03250-2	EPA 3010	MPRP/18210	EPA 6010	ICP/15298
60122079010	GW-074922-052212-CM-03250-2	EPA 5030B/8260	MSV/45992		
60122079010	GW-074922-052212-CM-03250-2	SM 2320B	WET/35295		
60122079010	GW-074922-052212-CM-03250-2	SM 2540C	WET/35248		
60122079010	GW-074922-052212-CM-03250-2	SM 4500-S-2 D	WET/35258		
60122079010	GW-074922-052212-CM-03250-2	EPA 300.0	WETA/20466		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 249461 Job Number: 18327

Submitter Sample Name: GW-074922-052212-CM-03250-2

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan County, NM

Depth/Formation:

Container Type: 60ml Bottle

Sample Collected: 5/22/2012 Results Reported: 6/04/2012

δD of water	----------	-104.9 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-13.74 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks:

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 249413 Job #: 18320
Sample Name: A-074922-052412-CM-03250-2 Co. Lab#:
Company: Pace Analytical
Date Sampled: 5/24/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location: San Juan County, NM
Formation/Depth:
Sampling Point:
Date Received: 5/29/2012 Date Reported: 7/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	0.0047			
Hydrogen	nd			
Argon	0.0350			
Oxygen	0.17			
Nitrogen	2.58			
Carbon Dioxide	1.46	-14.83		
Methane	93.95	-36.48	-176.5	
Ethane	1.57	-23.79	-133.6	
Ethylene	nd			
Propane	0.170			
Propylene	nd			
Iso-butane	0.0342			
N-butane	0.0166			
Iso-pentane	0.0069			
N-pentane	0.0022			
Hexanes +	0.0023			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 987
Specific gravity, calculated: 0.590
Delta O-18 of carbon dioxide = -7.43‰ vs VPDB

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 249414 Job #: 18320
Sample Name: A-074922-052412-CM-03250-(2-1) Co. Lab#:
Company: Pace Analytical
Date Sampled: 5/24/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location: San Juan County, NM
Formation/Depth:
Sampling Point:
Date Received: 5/29/2012 Date Reported: 7/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	0.0016			
Hydrogen	nd			
Argon	0.993			
Oxygen	19.13			
Nitrogen	79.23			
Carbon Dioxide	0.65			
Methane	nd			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	D052505-06		D052505-07					
Client Sample I.D.:	60122079006 / A-074922-052412-CM 03250(2)-1		60122079007 / A-074922-052412-CM 03250-2					
Date Sampled:	05/24/12		05/24/12					
Date Analyzed:	06/04/12		06/04/12					
QC Batch No.:	120604GC8A1		120604GC8A1					
Analyst Initials:	MJ		MJ					
Dilution Factor:	2.1		2.1					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Acetylene	ND	0.0021	1.6	0.0021				

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7-18-17

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY Laboratories, Inc.
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Client: Pace Analytical
Attn: Alice Tracy
Project Name: Area 6; 074922
Project No.: 60122079
Date Received: 05/25/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D052505-06		D052505-07					
Client Sample I.D.:	60122079006 / A-074922-052412-CM-03250(2)-1		60122079007 / A-074922-052412-CM-03250-2					
Date Sampled:	05/24/12		05/24/12					
Date Analyzed:	05/25/12		05/25/12					
QC Batch No.:	120525GC3A1		120525GC3A1					
Analyst Initials:	VM		VM					
Dilution Factor:	2.1		210					
ANALYTE	Result ppmv	RL ppmv	Result ppmv	RL ppmv				
Hydrogen Sulfide	ND	0.42	160	42				

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 7-18-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Angela Bown, Chris Fetters	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	503-377-3920 Fax: (505)884-4932	Project Name:	Area 6	Pace Project Manager:	Alice Tracy
Requested Due Date/TAT:	standard	Project Number:	74922	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

produced water = PW

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 8260 VOC's Full List	6010 Metals Dissolved*	2540 TDS	300.0 Cl, Br, S, bicarbonate	4500 Sulfide	8015 TPH GRO and DRO	RSK175 dissolved methane	TO-15 Full list VOC's/TPH BTEX ONLY			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-074922-052212-CM-038502	WT	G	~~5/22/12~~	~~10~~	5/22/12	1035		10	X		X	X		X	6	2	H	X	X	X	X	X	X	2	1	2	3		60122196 ~~60122079~~ AFS 5/29/12
2	GW-074922-052212-CM-DUP	WT	G			5/22/12	1040		10	X		X	X		X				X	X	X	X	X	X						001
3	GW-074922-052212-CM-MS	WT	G			5/22/12	1045		10	X		X	X		X				X	X	X	X	X	X						~~004~~ 5/26
4	GW-074922-052212-CM-MSD	WT	G			5/22/12	1050		10	X		X	X		X				X	X	X	X	X	X						~~005~~ 5/26
5	GW-074922-052212-CM-038971PI-1	WT	G			5/22/12	1315		10	X		X	X		X				X	X	X	X	X	X						002
6	GW-074922-052212-CM-02816-2	WT	G			5/22/12	1440		10	X		X	X		X				X	X	X	X	X	X						003
7	GW-074922-052212-CM-03259-2	WT	G			5/22/12	1550		10	X		X	X		X				X	X	X	X	X	X						004
8	PW-074922-052312-CM-202-2	PW	G			5/23/12	0930	-	10	X		X	X		X				X	X	X	X	X	X	1	A	G	1	U		005
9	PW-074922-052312-CM-25-2	PW	G			5/23/12	1145		10	X		X	X		X				X	X	X	X	X	X		-					006
10	GW-074922-052412-CM-038231PI-2	GW	G			5/24/12	0900		10	X		X	X		X				X	X	X	X	X	X	2	A	G	1	U		007
11	GW-074922-052412-CM-02892-1	WT	G			5/24/12	1410	-	10	X		X	X		X				X	X	X	X	X	X	1	A	A	1	U		008
12	TB-074922-052512-CM-001	WT				5/25/12	1145		3													3	H	G				X		009

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*6010 Metals Dissolved; Mg, Ca, B, K, Na	Christine Mathews	5/25/12	1200		5/26/12	1000	1.9	7	Y	Y
RSK175 and TO15 direct ship to Pace Minnesota							1.9			
Direct ship to Airtech (EPA15/15 and ASTMD1946							2.0			
Direct ship to Isotech (Isotopes, fixed gases)							2-6			
							2.1	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Comments: Samples beginning in PW are water from natural gas wells

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 05/25/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

60122196

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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09627 Page: 1 of 1

Section A Required Client Information:
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Email To: keblanchard@craworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:
Report To: Keblanchard@craworld.com
Copy To: cmatheus@craworld.com
Purchase Order No.:
Project Name: Area 6 GW EA
Project Number: 074922

Section C Invoice Information:
Attention:
Company Name: ConocoPhillips ENFOS PO 535628
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: UST Superfund Emissions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other
Location of Sampling by State: NM
Reporting Units: ug/m³ mg/m³ PPBV PPMV Other
Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C, Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	~~A-074922-052212-CM-03811PI-1~~																				
2	A-074922-052212-CM-02816-2	1LC		5/22/12	1500					1169								X			
3	A-074922-052212-CM-03259-2	1LC		5/22/12	1610					2495								X			
4	A-074922-052312-CM-202-2	1LC		5/23/12	1000					2418								X			
5	A-074922-052312-CM-25-2	1LC		5/23/12	1200					2476								X			
6	A-074922-052412-CM-03823PI-2	1LC		5/24/12	0905					2480								X			
7	~~A-074922-052412-CM-03~~																				
8	A-074922-052412-CM-03250(2)-1	1LC		5/24/12	~~935~~		1200			919								X			
9	A-074922-052412-CM-03250-2	1LC		5/24/12	~~1~~		935			1319								X			
10	A-074922-052412-CM-02992-1	1LC		5/24/12			1515			1314								X			
11	A-074922-052412CM-DUP	1LC		5/24/12			945			2419								X			
12																					

Comments:
Full list VOCs & TPH
- Samples ending in 202-2 & 25-2 are gas samples.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	5/24/12	1700	[signature]	5.25.12	1001

SAMPLE CONDITIONS: ambient (Y/N) (2) (3) (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christa Matheus
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 05/24/12

Temp in °C | Received on Ice Y/N | Custody Sealed Cooler Y/N | Samples Intact Y/N

ORIGINAL

60122196

1138

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SHORT HOLD 5.26.12

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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09628 Page: 1 of 1

Section A Required Client Information:

Company: CRA
Address: 6121 Indian School Albuquerque, NM 87110
Email To: kblanchard@crawworld.com
Phone: 505-884-0672 Fax:
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: kblanchard@crawworld.com
Copy To: cmathews@crawworld.com
Purchase Order No.:
Project Name: Area 6 GW & Air
Project Number: 074922

Section C Invoice Information:

Attention:
Company Name: Conoco Phillips ENFOS PO 535628
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep. Alice Tracy
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: NM

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE
PW = produced water
Ground water = GW

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Method: PM10 | 3C- Fixed Gas (%) | TO-3 | TO-3M (Methane) | TO-4 (PCBs) | TO-13 (PAH) | TO-14 | TO-15 | TO15 Short List* | RSK-175 Dissolved Methane

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED GRAB/START DATE	GRAB/START TIME	COMPOSITE END DATE	COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Pace Lab ID
1	GW-074922-052212-CM-03250-2	GW		5/22/12	1035							
2	GW-074922-052212-CM-DUP	GW		5/22/12	1040							
3	GW-074922-052212-CM-MS	GW		5/22/12	1045							
4	GW-074922-052212-CM-MSD	GW		5/22/12	1050							
5	GW-074922-052212-CM-03897PI-1	GW		5/22/12	1315							
6	GW-074922-052212-CM-02816-2	GW		5/22/12	1440							
7	GW-074922-052212-CM-03259-2	GW		5/22/12	1550							
8	~~GW-074922~~ PW-074922-052312-CM-202-2	PW		5/23/12	0930							
9	PW-074922-052312-CM-25-2	PW		5/23/12	1445							
10	GW-074922-052412-CM-03823PI-2	GW		5/24/12	0900							
11	GW-074922-052412-CM-02992-1	GW		5/24/12	1410							
12												

Comments: produced water samples items numbered 8 & 9 come from natural gas production wells.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	5/25/12	1200	[signature]	5-26-12	9:15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.2	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Christine Mathews
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 05/25/12

ORIGINAL

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmathews@crawrld.com

Project: 074922- Arcadis
Location: San Juan County, NM
Sampled by: CM, JP, HN

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Oxygen Isotopes	Comments
	GW-074922-052212-CM-03250-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-DUP	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MS	5/22/12	(1) 60mL	
NOT SENT	GW-074922-052212-CM-MSD	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03897PI-1	5/22/12	(1) 60mL	
	GW-074922-052212-CM-02816-2	5/22/12	(1) 60mL	
	GW-074922-052212-CM-03259-2	5/22/12	(1) 60mL	
Label Smudged	PW-074922-052312-CM-202-2	5/23/12	(1) 60mL	Water from natural gas well
	PW-074922-052312-CM-25-2	5/23/12	(1) 60mL	water from natural gas well
	GW-074922-052412-CM-03823PI-2	5/24/12	(1) 60mL	
	GW-074922-052412-CM-02992-1	5/24/12	(1) 60mL	

Chain-of-Custody Record

	Signature		Company	Date	Time
Relinquished by	[signature]	5/25/12@	1200 CRA	5/24/12	1200
Received by	[signature]		Isotech Labs	5/29/12@	1000
Relinquished by					
Received by					
Relinquished by					
Received by					

Send Data and Invoice to

Name: Christine Matheus
Company: CRA
Address: 612 Indian School Rd #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmatheus@craworld.com

Project: 074922- Area 6
Location: San Juan County, NM
Sampled by: CM, JP, AN

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Hydrogen & Carbon Isotopes	Hydrocarbons/ Fixed gases/ Spec. Gravity/ BTU	*If possible, CO, Oxygen & Sulfur Isotopes	Comments
	A-074922-052212-CM-02816-2	5/22/12	X	X	X	* run if possible w/ sample volume
	A-074922-052212-CM-03259-2	5/22/12	X	X	X	
	A-074922-052312-CM-202-2	5/23/12	X	X	X	
	A-074922-052312-CM-25-2	5/23/12	X	X	X	
	A-074922-052412-CM-03823B1-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250-2	5/24/12	X	X	X	
	A-074922-052412-CM-03250(2)-1	5/24/12	X	X	X	
	A-074922-052412-CM-02992-1	5/24/12	X	X	X	
	A-074922-052412-CM-DUP	5/24/12	X	X	X	

Comments: Sample were shipped in ~~34~~ CM 5-24-12 seperate boxes (3 per box) ~~1 box w/ 1 sample, 2 empties~~)

CM 5-24-12

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Christine Matheus	CRA	5/24/12	1700
Received by	Maggie Simmons	ISOTECH	5/25/12	1000
Relinquished by				
Received by				
Relinquished by				
Received by				

60122079

Air TECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME				DELIVERABLES		PAGE: 1 OF 1
Standard	X	48 hours	☐	EDD	X	Condition upon receipt:
Same Day	☐	72 hours	☐	EDF	☐	Sealed Yes ☐ No ☐
24 hours	☐	96 hours	☐	LEVEL 3	☐	Intact Yes ☐ No ☐
Other:				LEVEL 4	☐	Chilled _____ deg C

Project No.:	074922
Project Name:	Area 6
Report To:	Christine Matthews
Company:	CRA
Street:	6121 Indian School Rd #200
City/State/Zip:	Albuquerque, NM, 87110
Phone& Fax:	505 884-0672
e-mail:	cmatthews@craworld.com

BILLING

P.O. No.:
Bill to: PACE Analytical

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	Acetylene ASTM D1946	Hydrogen Sulfide EPA 15/16				
	A-074922-052212-CM-02816-2	5/22/12	1500	AIR	silco	X	X				01
	A-074922-052212-CM-03259-2	5/22/12	1610	AIR	silco	X	X				02
	A-074922-052312-CM-202-2	5/23/12	1000	GAS	silco	X	X				03
	A-074922-052312-CM-85-2	5/23/12	1200	GAS	silco	X	X				04
	A-074922-052412-CM-03823P1-2	5/24/12	0905	AIR	silco	X	X				05
	A-074922-052412-CM-03250(2)-1	5/24/12	1200	AIR	silco	X	X				06
	A-074922-052412-CM-03250-2	5/24/12	0935	AIR	silco	X	X				07
	A-074922-052412-CM-02912-1	5/24/12	1515	AIR	silco	X	X				08
	A-074922-052412-CM-DUP	5/24/12	0945	AIR	silco	X	X				09

AUTHORIZATION TO PERFORM WORK	Christine Matthews	COMPANY CRA	DATE/TIME 5/24/12 1700
SAMPLED BY	Christine Matthews	COMPANY CRA	DATE/TIME 5/24/12 1700
RELINQUISHED BY	Christine Matthews	DATE/TIME 5/24/12 1700	RECEIVED BY FEDEX DATE/TIME
RELINQUISHED BY FEDEX		DATE/TIME 5/25/12 0908	RECEIVED BY [illegible] DATE/TIME 5/25/12 0908
RELINQUISHED BY		DATE/TIME	RECEIVED BY DATE/TIME

COMMENTS

All containers are 1 Liter silco canisters

METHOD OF TRANSPORT (circle one): Walk-In (FedEx) UPS Courier ATLI Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other *Rev. 03 - 5/7/09*

2 of 2

6 0122196 AFT 5/29/12

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA NM

Project # ~~6 0122079~~

4670
4717

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 8496 3832 4691

Pace Shipping Label Used? ☑ Yes ☐ No

4706
4728

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date:
Proj. Name: 6/7

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPLC

Thermometer Used: T-191 / T-194

Type of Ice: (Wet) Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature: 1.9/1.9/2.0/2.6/2.1

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: PVS-26-12

Comments:

Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9. one Amber broke for 202-2 and 02492-1.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13.
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑Yes ☐No ☐N/A	15. PVS-26-12
Pace Trip Blank lot # (if purchased): 043012-3		
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	16. ~~3 of 3~~ 6 of 6 PW-074922-052312-CM-202-2 DG9H
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution: Parent sample is 03250-2, no DRO volume for 25-2, forhot headspace per client 5/29/12 AFT

Project Manager Review: AFT Date: 5/29/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

60122196

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 12Apr2012 Page 1 of 1
	Document Number: F-MN-A-106-rev.03	Issuing Authority: Pace Minnesota Quality Office

AIR Sample Condition Upon Receipt

Client Name: CRA-NM/Pace RS Project #: _____

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact ☐ yes ☒ no 05.25

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other _____

Optional
Proj. Due Date:
Proj. Name:

Temperature (TO17 and TO13 samples only): _____
Temp should be above freezing to 6°C

Tracking #: 4569 1403 6075, 8064

Comments:

Date and Initials of person examining contents: 05.25.12

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10
Media: 10 cans 10 gauges				11.
Sample Labels match COC	☒Yes	☐No	☐N/A	12. 03250(2)-1 sample tag lists time as 12:30 not 1200 1 can has void on sample label
Samples Received:				

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
CM-02816-2	Pace 1169				
11-02959-2	11 2495				
11-202-2	11 2418				
11-25-2	11 2476				
11-03423P1-2	11 2480				
11-03250(2)-1	11 0919				
11-03250-2	11 1319				
11-02992-1	11 1314				
11-CM-Dup	11 2419				
Void	11 2402				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60122228 COP CRA NM
Pace Project No.: 10193784

Sample: A-074922-052412-CM-03250(2)-1 **Lab ID: 60122228006** Collected: 05/24/12 12:00 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15							
Acetone	**225**	ug/m3	2.5	2.1		06/04/12 20:25	67-64-1	E
Benzene	**73.4**	ug/m3	3.4	2.1		06/04/12 20:25	71-43-2	
Benzyl chloride	ND	ug/m3	5.5	2.1		06/04/12 20:25	100-44-7	
Bromodichloromethane	**7.7**	ug/m3	7.2	2.1		06/04/12 20:25	75-27-4	
Bromoform	ND	ug/m3	11.0	2.1		06/04/12 20:25	75-25-2	
Bromomethane	**6.3**	ug/m3	4.1	2.1		06/04/12 20:25	74-83-9	
1,3-Butadiene	ND	ug/m3	2.4	2.1		06/04/12 20:25	106-99-0	
2-Butanone (MEK)	**21.7**	ug/m3	3.2	2.1		06/04/12 20:25	78-93-3	
Carbon disulfide	**9.7**	ug/m3	3.3	2.1		06/04/12 20:25	75-15-0	
Carbon tetrachloride	**7.7**	ug/m3	6.7	2.1		06/04/12 20:25	56-23-5	
Chlorobenzene	ND	ug/m3	4.9	2.1		06/04/12 20:25	108-90-7	
Chloroethane	ND	ug/m3	2.8	2.1		06/04/12 20:25	75-00-3	
Chloroform	**17.4**	ug/m3	5.2	2.1		06/04/12 20:25	67-66-3	
Chloromethane	**28.0**	ug/m3	2.2	2.1		06/04/12 20:25	74-87-3	
Cyclohexane	**59.0**	ug/m3	3.7	2.1		06/04/12 20:25	110-82-7	
Dibromochloromethane	ND	ug/m3	9.1	2.1		06/04/12 20:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	8.2	2.1		06/04/12 20:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.4	2.1		06/04/12 20:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	6.4	2.1		06/04/12 20:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.4	2.1		06/04/12 20:25	106-46-7	
Dichlorodifluoromethane	**6.7**	ug/m3	5.3	2.1		06/04/12 20:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	4.3	2.1		06/04/12 20:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	4.3	2.1		06/04/12 20:25	107-06-2	
1,1-Dichloroethene	**4.5**	ug/m3	4.2	2.1		06/04/12 20:25	75-35-4	
cis-1,2-Dichloroethene	**84.1**	ug/m3	4.2	2.1		06/04/12 20:25	156-59-2	
trans-1,2-Dichloroethene	**4.4**	ug/m3	4.2	2.1		06/04/12 20:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.9	2.1		06/04/12 20:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.9	2.1		06/04/12 20:25	10061-01-5	
trans-1,3-Dichloropropene	**4.9**	ug/m3	4.9	2.1		06/04/12 20:25	10061-02-6	
Dichlorotetrafluoroethane	**8.6**	ug/m3	7.5	2.1		06/04/12 20:25	76-14-2	
Ethanol	**28.6**	ug/m3	2.0	2.1		06/04/12 20:25	64-17-5	
Ethyl acetate	ND	ug/m3	3.8	2.1		06/04/12 20:25	141-78-6	
Ethylbenzene	**10.9**	ug/m3	4.6	2.1		06/04/12 20:25	100-41-4	
4-Ethyltoluene	**8.5**	ug/m3	5.2	2.1		06/04/12 20:25	622-96-8	
n-Heptane	**44.8**	ug/m3	4.4	2.1		06/04/12 20:25	142-82-5	
Hexachloro-1,3-butadiene	**24.5**	ug/m3	11.4	2.1		06/04/12 20:25	87-68-3	
n-Hexane	**79.9**	ug/m3	3.8	2.1		06/04/12 20:25	110-54-3	
2-Hexanone	ND	ug/m3	4.4	2.1		06/04/12 20:25	591-78-6	
Methylene Chloride	ND	ug/m3	3.7	2.1		06/04/12 20:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.0**	ug/m3	4.4	2.1		06/04/12 20:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.7	2.1		06/04/12 20:25	1634-04-4	
Naphthalene	**7.7**	ug/m3	5.6	2.1		06/04/12 20:25	91-20-3	
2-Propanol	**7.0**	ug/m3	2.6	2.1		06/04/12 20:25	67-63-0	
Propylene	ND	ug/m3	7.4	2.1		06/04/12 20:25	115-07-1	
Styrene	**8.2**	ug/m3	4.5	2.1		06/04/12 20:25	100-42-5	
1,1,2,2-Tetrachloroethane	**7.7**	ug/m3	7.3	2.1		06/04/12 20:25	79-34-5	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 60122228 COP CRA NM
Pace Project No.: 10193784

Sample: A-074922-052412-CM-03250(2)-1 **Lab ID: 60122228006** Collected: 05/24/12 12:00 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	7.2	2.1		06/04/12 20:25	127-18-4	
Tetrahydrofuran	**16.6**	ug/m3	3.2	2.1		06/04/12 20:25	109-99-9	
THC as Gas	**13800**	ug/m3	319	2.1		06/04/12 20:25		
Toluene	**56.2**	ug/m3	4.0	2.1		06/04/12 20:25	108-88-3	
1,2,4-Trichlorobenzene	**9.8**	ug/m3	7.9	2.1		06/04/12 20:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.8	2.1		06/04/12 20:25	71-55-6	
1,1,2-Trichloroethane	**6.2**	ug/m3	5.8	2.1		06/04/12 20:25	79-00-5	
Trichloroethene	**143**	ug/m3	5.7	2.1		06/04/12 20:25	79-01-6	
Trichlorofluoromethane	**9.1**	ug/m3	6.0	2.1		06/04/12 20:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**12.0**	ug/m3	8.2	2.1		06/04/12 20:25	76-13-1	
1,2,4-Trimethylbenzene	**11.8**	ug/m3	5.2	2.1		06/04/12 20:25	95-63-6	
1,3,5-Trimethylbenzene	**9.6**	ug/m3	5.2	2.1		06/04/12 20:25	108-67-8	
Vinyl acetate	ND	ug/m3	3.8	2.1		06/04/12 20:25	108-05-4	
Vinyl chloride	**4.8**	ug/m3	2.7	2.1		06/04/12 20:25	75-01-4	
m&p-Xylene	**29.7**	ug/m3	9.3	2.1		06/04/12 20:25	179601-23-1	
o-Xylene	**11.1**	ug/m3	4.6	2.1		06/04/12 20:25	95-47-6	

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ANALYTICAL RESULTS

Project: 60122228 COP CRA NM
Pace Project No.: 10193784

Sample: A-074922-052412-CM-03250-2 **Lab ID: 60122228007** Collected: 05/24/12 09:35 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15							
Acetone	ND	ug/m3	6500	5376		06/04/12 23:20	67-64-1	
Benzene	ND	ug/m3	8710	5376		06/04/12 23:20	71-43-2	
Benzyl chloride	ND	ug/m3	14100	5376		06/04/12 23:20	100-44-7	
Bromodichloromethane	ND	ug/m3	18300	5376		06/04/12 23:20	75-27-4	
Bromoform	ND	ug/m3	28200	5376		06/04/12 23:20	75-25-2	
Bromomethane	ND	ug/m3	10600	5376		06/04/12 23:20	74-83-9	
1,3-Butadiene	ND	ug/m3	6020	5376		06/04/12 23:20	106-99-0	
2-Butanone (MEK)	ND	ug/m3	8060	5376		06/04/12 23:20	78-93-3	
Carbon disulfide	ND	ug/m3	8490	5376		06/04/12 23:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	17200	5376		06/04/12 23:20	56-23-5	
Chlorobenzene	ND	ug/m3	12600	5376		06/04/12 23:20	108-90-7	
Chloroethane	ND	ug/m3	7200	5376		06/04/12 23:20	75-00-3	
Chloroform	ND	ug/m3	13300	5376		06/04/12 23:20	67-66-3	
Chloromethane	ND	ug/m3	5640	5376		06/04/12 23:20	74-87-3	
Cyclohexane	ND	ug/m3	9410	5376		06/04/12 23:20	110-82-7	
Dibromochloromethane	ND	ug/m3	23300	5376		06/04/12 23:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	21000	5376		06/04/12 23:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	16500	5376		06/04/12 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	16500	5376		06/04/12 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	16500	5376		06/04/12 23:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	13500	5376		06/04/12 23:20	75-71-8	D3
1,1-Dichloroethane	ND	ug/m3	11100	5376		06/04/12 23:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11100	5376		06/04/12 23:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	10900	5376		06/04/12 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	10900	5376		06/04/12 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	10900	5376		06/04/12 23:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	12600	5376		06/04/12 23:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	12400	5376		06/04/12 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	12400	5376		06/04/12 23:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	19100	5376		06/04/12 23:20	76-14-2	
Ethanol	ND	ug/m3	5160	5376		06/04/12 23:20	64-17-5	
Ethyl acetate	ND	ug/m3	9840	5376		06/04/12 23:20	141-78-6	
Ethylbenzene	ND	ug/m3	11900	5376		06/04/12 23:20	100-41-4	
4-Ethyltoluene	ND	ug/m3	13400	5376		06/04/12 23:20	622-96-8	
n-Heptane	ND	ug/m3	11200	5376		06/04/12 23:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	29100	5376		06/04/12 23:20	87-68-3	
n-Hexane	ND	ug/m3	9620	5376		06/04/12 23:20	110-54-3	
2-Hexanone	ND	ug/m3	11200	5376		06/04/12 23:20	591-78-6	
Methylene Chloride	ND	ug/m3	9520	5376		06/04/12 23:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	11200	5376		06/04/12 23:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	19700	5376		06/04/12 23:20	1634-04-4	
Naphthalene	ND	ug/m3	14300	5376		06/04/12 23:20	91-20-3	
2-Propanol	ND	ug/m3	6720	5376		06/04/12 23:20	67-63-0	
Propylene	ND	ug/m3	18800	5376		06/04/12 23:20	115-07-1	
Styrene	ND	ug/m3	11600	5376		06/04/12 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	18800	5376		06/04/12 23:20	79-34-5	

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(612)607-1700

ANALYTICAL RESULTS

Project: 60122228 COP CRA NM
Pace Project No.: 10193784

Sample: A-074922-052412-CM-03250-2 **Lab ID: 60122228007** Collected: 05/24/12 09:35 Received: 05/25/12 10:01 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR - Ambient	Analytical Method: TO-15							
Tetrachloroethene	ND	ug/m3	18500	5376		06/04/12 23:20	127-18-4	
Tetrahydrofuran	ND	ug/m3	8060	5376		06/04/12 23:20	109-99-9	
THC as Gas	ND	ug/m3	817000	5376		06/04/12 23:20		
Toluene	ND	ug/m3	10300	5376		06/04/12 23:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	20300	5376		06/04/12 23:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	14900	5376		06/04/12 23:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14900	5376		06/04/12 23:20	79-00-5	
Trichloroethene	ND	ug/m3	14700	5376		06/04/12 23:20	79-01-6	
Trichlorofluoromethane	ND	ug/m3	15400	5376		06/04/12 23:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	20900	5376		06/04/12 23:20	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	13400	5376		06/04/12 23:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	13400	5376		06/04/12 23:20	108-67-8	
Vinyl acetate	ND	ug/m3	9620	5376		06/04/12 23:20	108-05-4	
Vinyl chloride	ND	ug/m3	6990	5376		06/04/12 23:20	75-01-4	
m&p-Xylene	ND	ug/m3	23700	5376		06/04/12 23:20	179601-23-1	
o-Xylene	ND	ug/m3	11900	5376		06/04/12 23:20	95-47-6	

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ConocoPhillips

Kooper Saiz
Property Tax, Real Estate, Right-of-Way & Claims
3401 East 30th Street
Farmington, NM 87402
Phone: (505) 326-9893
Fax: (505) 324-6136
Kooper.saiz@contractor.conocophillips.com

RCVD FEB 10 '12
OIL CONS. DIV.
DIST. 3

Ms. Mary Jo Albin
3921 Highland view Dr.
Farmington, NM
87402

February 8, 2012

Re: Water Well Sample Analytical Results

Dear Ms. Albin:

Thank you for providing your consent to ConocoPhillips for the sampling of your water well. As discussed, ConocoPhillips has been testing water wells in the vicinity of your well for the presence of methane or hydrogen sulfide.

Enclosed is a copy of the laboratory analytical results for the samples ConocoPhillips' contractor obtained on December 1, 2011. Based upon the results, your well has been impacted by methane, which is the focus of the investigation. We note, however, that this well is not currently in service and is not connected to a residence. In the event you plan to change the current status of the well, we would respectfully request that you provide us with advance written notice of your plans.

A copy of these results has been provided to the New Mexico Oil Conservation Division (NMOCD). ConocoPhillips continues to work with the NMOCD on investigating the source for methane and hydrogen sulfide in the groundwater in the vicinity. We will keep you apprised of any further investigations that may affect your property.

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

Sincerely,

Kooper Saiz

Cc: Mr. Brandon Powell, NMOCD

Enc

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February 02, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between December 03, 2011 and December 06, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Tracy

alice.tracy@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60111459002	**DW-074922-120111-CM-29**	Water	12/01/11 11:50	12/03/11 08:45
60111459008	**A-074922-120211-CM-29**	Air	12/01/11 11:20	12/03/11 08:45
60111459015	**A-074922-120111-CM-29**	Air	12/01/11 11:20	12/05/11 09:13
60111560002	**DW-074922-120111-CM-29**	Water	12/01/11 11:50	12/06/11 09:15

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SAMPLE ANALYTE COUNT

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60111459002	**DW-074922-120111-CM-29**	RSK 175	SK4	1	PASI-M
60111459008	**A-074922-120211-CM-29**	TO-15	DR1	62	PASI-M
60111560002	**DW-074922-120111-CM-29**	EPA 8015B	SDR	3	PASI-K
		EPA 5030B/8015B	PRG	3	PASI-K
		EPA 6010	JGP	5	PASI-K
		EPA 5030B/8260	JDM	70	PASI-K
		SM 2320B	AJM	2	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-S-2 F	SRM1	1	PASI-K
		EPA 300.0	JML	3	PASI-K

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/13778

1e: The sample was not collected in the appropriate container for headspace analysis.
- DW-074922-120111-CM-29 (Lab ID: 60111459002)
  - Methane

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **TO-15**
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/13823

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 1114119)
  - Ethanol
  - Tetrahydrofuran

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/13823

A3: The sample was analyzed by serial dilution.

- A-074922-120211-CM-29 (Lab ID: 60111459008)
  - Dichlorodifluoromethane

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/3966

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/16421

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60111560007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 925634)
  - Sodium, Dissolved
- MSD (Lab ID: 925635)
  - Sodium, Dissolved

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/42327

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60111560007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 923174)
  - Toluene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **SM 4500-S-2 F**
Description: 4500S2F Sulfide, Iodometric
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 F. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/18657

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60111334002,60111380002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 926247)
  - Sulfate
- MS (Lab ID: 926249)
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Sample: DW-074922-120111-CM-29 **Lab ID: 60111459002** Collected: 12/01/11 11:50 Received: 12/03/11 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**1940**	ug/L	10.0	5.0	1		12/07/11 12:23	74-82-8	1e

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(913)599-5665

ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Sample: A-074922-120211-CM-29 **Lab ID: 60111459008** Collected: 12/01/11 11:20 Received: 12/03/11 08:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	ND	ug/m3	77.2	38.6	160.8		12/14/11 02:55	67-64-1	
Benzene	ND	ug/m3	52.3	25.7	160.8		12/14/11 02:55	71-43-2	
Benzyl chloride	ND	ug/m3	169	84.4	160.8		12/14/11 02:55	100-44-7	
Bromodichloromethane	ND	ug/m3	225	113	160.8		12/14/11 02:55	75-27-4	
Bromoform	ND	ug/m3	338	169	160.8		12/14/11 02:55	75-25-2	
Bromomethane	ND	ug/m3	127	63.5	160.8		12/14/11 02:55	74-83-9	
1,3-Butadiene	ND	ug/m3	72.4	36.2	160.8		12/14/11 02:55	106-99-0	
2-Butanone (MEK)	**1780**	ug/m3	96.5	48.2	160.8		12/14/11 02:55	78-93-3	
Carbon disulfide	ND	ug/m3	101	50.7	160.8		12/14/11 02:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	103	51.5	160.8		12/14/11 02:55	56-23-5	
Chlorobenzene	ND	ug/m3	151	75.6	160.8		12/14/11 02:55	108-90-7	
Chloroethane	ND	ug/m3	86.8	43.4	160.8		12/14/11 02:55	75-00-3	
Chloroform	**3710**	ug/m3	159	79.6	160.8		12/14/11 02:55	67-66-3	
Chloromethane	ND	ug/m3	67.5	33.8	160.8		12/14/11 02:55	74-87-3	
Cyclohexane	ND	ug/m3	109	54.7	160.8		12/14/11 02:55	110-82-7	
Dibromochloromethane	ND	ug/m3	273	137	160.8		12/14/11 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	257	129	160.8		12/14/11 02:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	193	96.5	160.8		12/14/11 02:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	193	96.5	160.8		12/14/11 02:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	193	96.5	160.8		12/14/11 02:55	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	161	80.4	160.8		12/14/11 02:55	75-71-8	A3
1,1-Dichloroethane	ND	ug/m3	132	65.9	160.8		12/14/11 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	65.9	33.8	160.8		12/14/11 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	130	65.1	160.8		12/14/11 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	130	65.1	160.8		12/14/11 02:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	130	65.1	160.8		12/14/11 02:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	151	75.6	160.8		12/14/11 02:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	148	74.0	160.8		12/14/11 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	148	74.0	160.8		12/14/11 02:55	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	225	113	160.8		12/14/11 02:55	76-14-2	
Ethanol	ND	ug/m3	306	137	160.8		12/14/11 02:55	64-17-5	
Ethyl acetate	ND	ug/m3	117	58.7	160.8		12/14/11 02:55	141-78-6	
Ethylbenzene	ND	ug/m3	142	70.8	160.8		12/14/11 02:55	100-41-4	
4-Ethyltoluene	ND	ug/m3	402	201	160.8		12/14/11 02:55	622-96-8	
n-Heptane	ND	ug/m3	133	66.7	160.8		12/14/11 02:55	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	354	177	160.8		12/14/11 02:55	87-68-3	
n-Hexane	ND	ug/m3	116	57.9	160.8		12/14/11 02:55	110-54-3	
2-Hexanone	ND	ug/m3	133	66.7	160.8		12/14/11 02:55	591-78-6	
Methylene Chloride	ND	ug/m3	114	57.1	160.8		12/14/11 02:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	133	66.7	160.8		12/14/11 02:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	117	58.7	160.8		12/14/11 02:55	1634-04-4	
Naphthalene	ND	ug/m3	434	217	160.8		12/14/11 02:55	91-20-3	
2-Propanol	ND	ug/m3	402	201	160.8		12/14/11 02:55	67-63-0	
Propylene	ND	ug/m3	56.3	28.1	160.8		12/14/11 02:55	115-07-1	
Styrene	ND	ug/m3	140	69.9	160.8		12/14/11 02:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	112	56.3	160.8		12/14/11 02:55	79-34-5	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Sample: A-074922-120211-CM-29 **Lab ID: 60111459008** Collected: 12/01/11 11:20 Received: 12/03/11 08:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	111	54.7	160.8		12/14/11 02:55	127-18-4	
Tetrahydrofuran	**6180**	ug/m3	96.5	48.2	160.8		12/14/11 02:55	109-99-9	
THC as Gas	**13300**	ug/m3	122	87.2	2.01		12/12/11 19:49		
Toluene	**9380**	ug/m3	124	61.9	160.8		12/14/11 02:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	159	79.6	160.8		12/14/11 02:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	177	88.4	160.8		12/14/11 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	88.4	45.0	160.8		12/14/11 02:55	79-00-5	
Trichloroethene	ND	ug/m3	88.4	45.0	160.8		12/14/11 02:55	79-01-6	
Trichlorofluoromethane	ND	ug/m3	177	88.4	160.8		12/14/11 02:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	257	129	160.8		12/14/11 02:55	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	161	80.4	160.8		12/14/11 02:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	161	80.4	160.8		12/14/11 02:55	108-67-8	
Vinyl acetate	ND	ug/m3	114	57.1	160.8		12/14/11 02:55	108-05-4	
Vinyl chloride	ND	ug/m3	41.8	20.9	160.8		12/14/11 02:55	75-01-4	
m&p-Xylene	ND	ug/m3	283	142	160.8		12/14/11 02:55	179601-23-1	
o-Xylene	ND	ug/m3	142	70.8	160.8		12/14/11 02:55	95-47-6	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Sample: DW-074922-120111-CM-29 **Lab ID: 60111560002** Collected: 12/01/11 11:50 Received: 12/06/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.097	1	12/08/11 00:00	12/14/11 21:54		
Surrogates									
p-Terphenyl (S)	59	%	40-118		1	12/08/11 00:00	12/14/11 21:54	92-94-4	
n-Tetracosane (S)	60	%	36-120		1	12/08/11 00:00	12/14/11 21:54	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	**0.027J**	mg/L	0.50	0.025	1		12/10/11 01:42		
Surrogates									
4-Bromofluorobenzene (S)	95	%	63-139		1		12/10/11 01:42	460-00-4	
Preservation pH	**1.0**				1		12/10/11 01:42		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**164**	ug/L	100	2.3	1	12/13/11 15:20	12/15/11 18:28	7440-42-8	
Calcium, Dissolved	**414000**	ug/L	100	7.1	1	12/13/11 15:20	12/15/11 18:28	7440-70-2	
Magnesium, Dissolved	**9590**	ug/L	50.0	10.0	1	12/13/11 15:20	12/15/11 18:28	7439-95-4	
Potassium, Dissolved	**5340**	ug/L	500	63.4	1	12/13/11 15:20	12/15/11 18:28	7440-09-7	
Sodium, Dissolved	**684000**	ug/L	2500	71.0	5	12/13/11 15:20	12/15/11 18:17	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	2.2	1		12/08/11 11:28	67-64-1	
Benzene	ND	ug/L	1.0	0.070	1		12/08/11 11:28	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.064	1		12/08/11 11:28	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.10	1		12/08/11 11:28	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		12/08/11 11:28	75-27-4	
Bromoform	ND	ug/L	1.0	0.15	1		12/08/11 11:28	75-25-2	
Bromomethane	ND	ug/L	1.0	0.22	1		12/08/11 11:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.41	1		12/08/11 11:28	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.078	1		12/08/11 11:28	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.047	1		12/08/11 11:28	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.066	1		12/08/11 11:28	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.053	1		12/08/11 11:28	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.23	1		12/08/11 11:28	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.093	1		12/08/11 11:28	108-90-7	
Chloroethane	ND	ug/L	1.0	0.19	1		12/08/11 11:28	75-00-3	
Chloroform	**3.1**	ug/L	1.0	0.087	1		12/08/11 11:28	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		12/08/11 11:28	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.19	1		12/08/11 11:28	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		12/08/11 11:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.66	1		12/08/11 11:28	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.091	1		12/08/11 11:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.13	1		12/08/11 11:28	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.12	1		12/08/11 11:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.077	1		12/08/11 11:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.068	1		12/08/11 11:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.072	1		12/08/11 11:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.15	1		12/08/11 11:28	75-71-8	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Sample: DW-074922-120111-CM-29 **Lab ID: 60111560002** Collected: 12/01/11 11:50 Received: 12/06/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,1-Dichloroethane	ND	ug/L	1.0	0.079	1		12/08/11 11:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.080	1		12/08/11 11:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		12/08/11 11:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		12/08/11 11:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.086	1		12/08/11 11:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.085	1		12/08/11 11:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.045	1		12/08/11 11:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.097	1		12/08/11 11:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.11	1		12/08/11 11:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.088	1		12/08/11 11:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.066	1		12/08/11 11:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.080	1		12/08/11 11:28	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.078	1		12/08/11 11:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.11	1		12/08/11 11:28	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.50	1		12/08/11 11:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.069	1		12/08/11 11:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.065	1		12/08/11 11:28	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.12	1		12/08/11 11:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.33	1		12/08/11 11:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.077	1		12/08/11 11:28	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.14	1		12/08/11 11:28	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.071	1		12/08/11 11:28	103-65-1	
Styrene	ND	ug/L	1.0	0.080	1		12/08/11 11:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		12/08/11 11:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		12/08/11 11:28	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.073	1		12/08/11 11:28	127-18-4	
Toluene	ND	ug/L	1.0	0.064	1		12/08/11 11:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		12/08/11 11:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		12/08/11 11:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.13	1		12/08/11 11:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		12/08/11 11:28	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.064	1		12/08/11 11:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.064	1		12/08/11 11:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.36	1		12/08/11 11:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.060	1		12/08/11 11:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.094	1		12/08/11 11:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.068	1		12/08/11 11:28	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		12/08/11 11:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	87-113		1		12/08/11 11:28	460-00-4	
Dibromofluoromethane (S)	100	%	86-112		1		12/08/11 11:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	89	%	82-119		1		12/08/11 11:28	17060-07-0	
Toluene-d8 (S)	102	%	90-110		1		12/08/11 11:28	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		12/08/11 11:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Sample: DW-074922-120111-CM-29 **Lab ID: 60111560002** Collected: 12/01/11 11:50 Received: 12/06/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**184**	mg/L	20.0	3.8	1		12/15/11 14:30		
Alkalinity, Total as CaCO3	**184**	mg/L	20.0	3.8	1		12/15/11 14:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2620**	mg/L	5.0	5.0	1		12/08/11 08:14		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F								
Sulfide	ND	mg/L	0.50	0.23	1		12/08/11 16:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	**0.39J**	mg/L	1.0	0.061	1		12/15/11 17:02	24959-67-9	
Chloride	**5.6**	mg/L	1.0	0.054	1		12/15/11 17:02	16887-00-6	
Sulfate	**2240**	mg/L	200	15.2	200		12/16/11 09:49	14808-79-8	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: AIR/13778
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60111459002

METHOD BLANK: 1110878 Matrix: Water
Associated Lab Samples: 60111459002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	12/07/11 08:10	

LABORATORY CONTROL SAMPLE & LCSD: 1110879 1110880

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	62.2	63.4	102	104	70-130	2	30	

SAMPLE DUPLICATE: 1111318

Parameter	Units	20942018 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	166	144	14	30	

SAMPLE DUPLICATE: 1111320

Parameter	Units	20941878 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	64.2	70.3	9	30	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: AIR/13823
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60111459008

METHOD BLANK: 1114118
Matrix: Air
Associated Lab Samples: 60111459008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/13/11 14:52	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	12/13/11 14:52	
1,1,2-Trichloroethane	ug/m3	ND	0.55	12/13/11 14:52	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	12/13/11 14:52	
1,1-Dichloroethane	ug/m3	ND	0.82	12/13/11 14:52	
1,1-Dichloroethene	ug/m3	ND	0.81	12/13/11 14:52	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	12/13/11 14:52	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	12/13/11 14:52	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	12/13/11 14:52	
1,2-Dichlorobenzene	ug/m3	ND	1.2	12/13/11 14:52	
1,2-Dichloroethane	ug/m3	ND	0.41	12/13/11 14:52	
1,2-Dichloropropane	ug/m3	ND	0.94	12/13/11 14:52	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	12/13/11 14:52	
1,3-Butadiene	ug/m3	ND	0.45	12/13/11 14:52	
1,3-Dichlorobenzene	ug/m3	ND	1.2	12/13/11 14:52	
1,4-Dichlorobenzene	ug/m3	ND	1.2	12/13/11 14:52	
2-Butanone (MEK)	ug/m3	ND	0.60	12/13/11 14:52	
2-Hexanone	ug/m3	ND	0.83	12/13/11 14:52	
2-Propanol	ug/m3	ND	2.5	12/13/11 14:52	
4-Ethyltoluene	ug/m3	ND	2.5	12/13/11 14:52	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	12/13/11 14:52	
Acetone	ug/m3	ND	0.48	12/13/11 14:52	
Benzene	ug/m3	ND	0.32	12/13/11 14:52	
Benzyl chloride	ug/m3	ND	1.0	12/13/11 14:52	
Bromodichloromethane	ug/m3	ND	1.4	12/13/11 14:52	
Bromoform	ug/m3	ND	2.1	12/13/11 14:52	
Bromomethane	ug/m3	ND	0.79	12/13/11 14:52	
Carbon disulfide	ug/m3	ND	0.63	12/13/11 14:52	
Carbon tetrachloride	ug/m3	ND	0.64	12/13/11 14:52	
Chlorobenzene	ug/m3	ND	0.94	12/13/11 14:52	
Chloroethane	ug/m3	ND	0.54	12/13/11 14:52	
Chloroform	ug/m3	ND	0.99	12/13/11 14:52	
Chloromethane	ug/m3	ND	0.42	12/13/11 14:52	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/13/11 14:52	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	12/13/11 14:52	
Cyclohexane	ug/m3	ND	0.68	12/13/11 14:52	
Dibromochloromethane	ug/m3	ND	1.7	12/13/11 14:52	
Dichlorodifluoromethane	ug/m3	ND	1.0	12/13/11 14:52	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	12/13/11 14:52	
Ethanol	ug/m3	ND	1.9	12/13/11 14:52	
Ethyl acetate	ug/m3	ND	0.73	12/13/11 14:52	
Ethylbenzene	ug/m3	ND	0.88	12/13/11 14:52	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	12/13/11 14:52	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

METHOD BLANK: 1114118 Matrix: Air

Associated Lab Samples: 60111459008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	12/13/11 14:52	
Methyl-tert-butyl ether	ug/m3	ND	0.73	12/13/11 14:52	
Methylene Chloride	ug/m3	ND	0.71	12/13/11 14:52	
n-Heptane	ug/m3	ND	0.83	12/13/11 14:52	
n-Hexane	ug/m3	ND	0.72	12/13/11 14:52	
Naphthalene	ug/m3	ND	2.7	12/13/11 14:52	
o-Xylene	ug/m3	ND	0.88	12/13/11 14:52	
Propylene	ug/m3	ND	0.35	12/13/11 14:52	
Styrene	ug/m3	ND	0.87	12/13/11 14:52	
Tetrachloroethene	ug/m3	ND	0.69	12/13/11 14:52	
Tetrahydrofuran	ug/m3	ND	0.60	12/13/11 14:52	
THC as Gas	ug/m3	ND	60.8	12/13/11 14:52	
Toluene	ug/m3	ND	0.77	12/13/11 14:52	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/13/11 14:52	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	12/13/11 14:52	
Trichloroethene	ug/m3	ND	0.55	12/13/11 14:52	
Trichlorofluoromethane	ug/m3	ND	1.1	12/13/11 14:52	
Vinyl acetate	ug/m3	ND	0.71	12/13/11 14:52	
Vinyl chloride	ug/m3	ND	0.26	12/13/11 14:52	

LABORATORY CONTROL SAMPLE: 1114119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	48.6	88	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.3	95	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	48.9	88	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.8	91	60-137	
1,1-Dichloroethane	ug/m3	41.2	35.2	86	65-131	
1,1-Dichloroethene	ug/m3	40.3	35.4	88	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	83.5	111	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	49.8	100	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	71.5	92	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	57.9	95	68-139	
1,2-Dichloroethane	ug/m3	41.2	35.6	86	66-132	
1,2-Dichloropropane	ug/m3	47	40.4	86	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	48.1	96	70-141	
1,3-Butadiene	ug/m3	22.5	20.0	89	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	56.8	93	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	43.0	70	66-142	
2-Butanone (MEK)	ug/m3	30	28.8	96	68-134	
2-Hexanone	ug/m3	41.7	35.1	84	70-144	
2-Propanol	ug/m3	23.8	21.5	90	66-139	
4-Ethyltoluene	ug/m3	50	45.2	90	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	35.8	86	70-139	
Acetone	ug/m3	24.2	18.7	77	56-142	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

LABORATORY CONTROL SAMPLE: 1114119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	30.8	95	69-129	
Benzyl chloride	ug/m3	52.5	36.7	70	68-138	
Bromodichloromethane	ug/m3	68.2	62.1	91	70-130	
Bromoform	ug/m3	105	111	105	67-147	
Bromomethane	ug/m3	39.5	34.5	87	67-127	
Carbon disulfide	ug/m3	31.7	27.2	86	65-131	
Carbon tetrachloride	ug/m3	64	49.9	78	62-137	
Chlorobenzene	ug/m3	46.8	41.7	89	72-133	
Chloroethane	ug/m3	26.8	22.9	85	66-127	
Chloroform	ug/m3	49.7	43.5	88	67-130	
Chloromethane	ug/m3	21	21.2	101	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	35.7	88	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	43.2	94	74-137	
Cyclohexane	ug/m3	35	33.7	96	69-137	
Dibromochloromethane	ug/m3	86.6	85.5	99	69-140	
Dichlorodifluoromethane	ug/m3	50.3	43.0	86	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	65.1	92	63-130	
Ethanol	ug/m3	19.2	17.8	93	63-135	SS
Ethyl acetate	ug/m3	36.6	31.9	87	70-135	
Ethylbenzene	ug/m3	44.2	41.4	94	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	114	106	30-150	
m&p-Xylene	ug/m3	88.3	85.0	96	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	30.7	84	54-136	
Methylene Chloride	ug/m3	35.3	32.1	91	56-143	
n-Heptane	ug/m3	41.7	37.8	91	72-130	
n-Hexane	ug/m3	35.8	29.9	83	68-130	
Naphthalene	ug/m3	53.3	51.3	96	30-150	
o-Xylene	ug/m3	44.2	38.4	87	70-141	
Propylene	ug/m3	17.5	16.0	91	61-139	
Styrene	ug/m3	43.3	40.0	92	68-145	
Tetrachloroethene	ug/m3	69	65.2	94	64-142	
Tetrahydrofuran	ug/m3	30	26.4	88	70-134	SS
THC as Gas	ug/m3	3030	2810	93	66-134	
Toluene	ug/m3	38.3	34.1	89	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	35.9	89	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	45.6	99	71-140	
Trichloroethene	ug/m3	54.6	51.6	94	68-132	
Trichlorofluoromethane	ug/m3	57.1	51.1	90	59-136	
Vinyl acetate	ug/m3	35.8	31.9	89	70-142	
Vinyl chloride	ug/m3	26	23.6	91	64-129	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: GCV/3966
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60111560002

METHOD BLANK: 923981
Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	0.026J	0.50	12/09/11 23:48	
4-Bromofluorobenzene (S)	%	92	63-139	12/09/11 23:48	

LABORATORY CONTROL SAMPLE: 923982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.96	96	74-127	
4-Bromofluorobenzene (S)	%			97	63-139	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: MPRP/16421
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60111560002

METHOD BLANK: 925632 Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	12/15/11 18:03	
Calcium, Dissolved	ug/L	ND	100	12/15/11 18:03	
Magnesium, Dissolved	ug/L	ND	50.0	12/15/11 18:03	
Potassium, Dissolved	ug/L	ND	500	12/15/11 18:03	
Sodium, Dissolved	ug/L	ND	500	12/15/11 18:03	

LABORATORY CONTROL SAMPLE: 925633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	956	96	80-120	
Calcium, Dissolved	ug/L	10000	9880	99	80-120	
Magnesium, Dissolved	ug/L	10000	10000	100	80-120	
Potassium, Dissolved	ug/L	10000	9880	99	80-120	
Sodium, Dissolved	ug/L	10000	10100	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 925634 925635

Parameter	Units	60111560007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	2040	1000	1000	3030	3030	99	99	75-125	0	20	
Calcium, Dissolved	ug/L	13500	10000	10000	23000	22900	95	95	75-125	0	20	
Magnesium, Dissolved	ug/L	13400	10000	10000	22700	22900	93	95	75-125	1	20	
Potassium, Dissolved	ug/L	41200	10000	10000	51400	51600	102	104	75-125	0	20	
Sodium, Dissolved	ug/L	3030000	10000	10000	3200000	3140000	1690	1090	75-125	2	20	M0

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: MSV/42327
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60111560002

METHOD BLANK: 923172
Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/11 10:10	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/11 10:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,2,3-Trichloropropane	ug/L	ND	2.5	12/08/11 10:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,2,4-Trimethylbenzene	ug/L	0.23J	1.0	12/08/11 10:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	12/08/11 10:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/11 10:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/08/11 10:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/11 10:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/11 10:10	
2-Butanone (MEK)	ug/L	ND	10.0	12/08/11 10:10	
2-Chlorotoluene	ug/L	ND	1.0	12/08/11 10:10	
2-Hexanone	ug/L	ND	10.0	12/08/11 10:10	
4-Chlorotoluene	ug/L	ND	1.0	12/08/11 10:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/08/11 10:10	
Acetone	ug/L	ND	10.0	12/08/11 10:10	
Benzene	ug/L	ND	1.0	12/08/11 10:10	
Bromobenzene	ug/L	ND	1.0	12/08/11 10:10	
Bromochloromethane	ug/L	ND	1.0	12/08/11 10:10	
Bromodichloromethane	ug/L	ND	1.0	12/08/11 10:10	
Bromoform	ug/L	ND	1.0	12/08/11 10:10	
Bromomethane	ug/L	ND	1.0	12/08/11 10:10	
Carbon disulfide	ug/L	ND	5.0	12/08/11 10:10	
Carbon tetrachloride	ug/L	ND	1.0	12/08/11 10:10	
Chlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
Chloroethane	ug/L	ND	1.0	12/08/11 10:10	
Chloroform	ug/L	ND	1.0	12/08/11 10:10	
Chloromethane	ug/L	ND	1.0	12/08/11 10:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 10:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 10:10	
Dibromochloromethane	ug/L	ND	1.0	12/08/11 10:10	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

METHOD BLANK: 923172 Matrix: Water

Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	12/08/11 10:10	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/11 10:10	
Ethylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/11 10:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/08/11 10:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/11 10:10	
Methylene chloride	ug/L	ND	1.0	12/08/11 10:10	
n-Butylbenzene	ug/L	ND	1.0	12/08/11 10:10	
n-Propylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Naphthalene	ug/L	ND	10.0	12/08/11 10:10	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/11 10:10	
sec-Butylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Styrene	ug/L	ND	1.0	12/08/11 10:10	
tert-Butylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Tetrachloroethene	ug/L	ND	1.0	12/08/11 10:10	
Toluene	ug/L	ND	1.0	12/08/11 10:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 10:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 10:10	
Trichloroethene	ug/L	ND	1.0	12/08/11 10:10	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/11 10:10	
Vinyl chloride	ug/L	ND	1.0	12/08/11 10:10	
Xylene (Total)	ug/L	ND	3.0	12/08/11 10:10	
1,2-Dichloroethane-d4 (S)	%	85	82-119	12/08/11 10:10	
4-Bromofluorobenzene (S)	%	98	87-113	12/08/11 10:10	
Dibromofluoromethane (S)	%	98	86-112	12/08/11 10:10	
Toluene-d8 (S)	%	102	90-110	12/08/11 10:10	

LABORATORY CONTROL SAMPLE: 923173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	102	81-121	
1,1,1-Trichloroethane	ug/L	20	19.1	95	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	78-124	
1,1,2-Trichloroethane	ug/L	20	19.1	95	79-121	
1,1-Dichloroethane	ug/L	20	17.9	89	73-119	
1,1-Dichloroethene	ug/L	20	15.6	78	75-120	
1,1-Dichloropropene	ug/L	20	18.4	92	79-123	
1,2,3-Trichlorobenzene	ug/L	20	19.9	99	73-122	
1,2,3-Trichloropropane	ug/L	20	18.2	91	77-124	
1,2,4-Trichlorobenzene	ug/L	20	20.0	100	75-120	
1,2,4-Trimethylbenzene	ug/L	20	19.9	99	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	15.5	77	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	19.4	97	85-121	
1,2-Dichlorobenzene	ug/L	20	20.3	102	82-115	
1,2-Dichloroethane	ug/L	20	17.6	88	77-125	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

LABORATORY CONTROL SAMPLE: 923173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	38.2	96	79-120	
1,2-Dichloropropane	ug/L	20	18.7	94	83-119	
1,3,5-Trimethylbenzene	ug/L	20	19.5	98	79-121	
1,3-Dichlorobenzene	ug/L	20	19.6	98	79-117	
1,3-Dichloropropane	ug/L	20	17.6	88	78-116	
1,4-Dichlorobenzene	ug/L	20	19.5	98	83-115	
2,2-Dichloropropane	ug/L	20	18.2	91	66-123	
2-Butanone (MEK)	ug/L	100	83.8	84	43-165	
2-Chlorotoluene	ug/L	20	20.1	101	81-117	
2-Hexanone	ug/L	100	78.2	78	47-159	
4-Chlorotoluene	ug/L	20	20.3	101	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	73.8	74	71-129	
Acetone	ug/L	100	79.9	80	18-192	
Benzene	ug/L	20	19.2	96	82-117	
Bromobenzene	ug/L	20	19.5	97	83-116	
Bromochloromethane	ug/L	20	19.6	98	79-121	
Bromodichloromethane	ug/L	20	18.1	90	79-114	
Bromoform	ug/L	20	18.5	93	78-121	
Bromomethane	ug/L	20	16.7	83	36-146	
Carbon disulfide	ug/L	20	17.8	89	75-138	
Carbon tetrachloride	ug/L	20	19.8	99	80-123	
Chlorobenzene	ug/L	20	20.2	101	83-121	
Chloroethane	ug/L	20	17.4	87	42-166	
Chloroform	ug/L	20	19.0	95	82-116	
Chloromethane	ug/L	20	12.7	63	32-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-119	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	76-119	
Dibromochloromethane	ug/L	20	19.4	97	81-123	
Dibromomethane	ug/L	20	19.6	98	79-123	
Dichlorodifluoromethane	ug/L	20	11.0	55	10-163	
Ethylbenzene	ug/L	20	21.1	105	79-121	
Hexachloro-1,3-butadiene	ug/L	20	21.5	107	78-125	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	80-120	
Methyl-tert-butyl ether	ug/L	20	16.9	85	78-119	
Methylene chloride	ug/L	20	19.2	96	75-118	
n-Butylbenzene	ug/L	20	19.8	99	80-126	
n-Propylbenzene	ug/L	20	20.2	101	83-116	
Naphthalene	ug/L	20	19.6	98	66-133	
p-Isopropyltoluene	ug/L	20	20.3	102	77-120	
sec-Butylbenzene	ug/L	20	20.0	100	81-120	
Styrene	ug/L	20	19.5	97	84-115	
tert-Butylbenzene	ug/L	20	20.2	101	80-117	
Tetrachloroethene	ug/L	20	20.3	102	80-124	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	79-120	
trans-1,3-Dichloropropene	ug/L	20	18.7	93	76-118	
Trichloroethene	ug/L	20	19.8	99	76-122	
Trichlorofluoromethane	ug/L	20	16.8	84	72-120	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

LABORATORY CONTROL SAMPLE: 923173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	15.9	80	57-163	
Xylene (Total)	ug/L	60	59.8	100	75-120	
1,2-Dichloroethane-d4 (S)	%			85	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923174 923175

Parameter	Units	60111560007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.9	18.4	90	92	56-124	3	26	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	17.7	85	89	57-128	4	27	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.2	22.7	106	113	48-137	6	26	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.2	20.4	96	102	57-136	6	25	
1,1-Dichloroethane	ug/L	ND	20	20	16.0	17.0	80	85	55-130	6	27	
1,1-Dichloroethene	ug/L	ND	20	20	15.0	15.1	75	75	46-146	1	25	
1,1-Dichloropropene	ug/L	ND	20	20	16.7	17.8	84	89	57-137	6	27	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	11.0	13.8	55	69	41-136	22	22	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	22.5	108	112	56-136	4	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	12.3	14.2	61	71	32-140	15	26	
1,2,4-Trimethylbenzene	ug/L	9.7	20	20	24.8	26.3	76	83	42-133	6	23	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.3	21.6	91	108	36-167	17	29	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.7	104	113	45-155	9	21	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.4	16.9	82	85	54-125	3	19	
1,2-Dichloroethane	ug/L	ND	20	20	20.4	21.1	102	105	44-145	3	22	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	35.2	37.2	88	93	46-144	6	26	
1,2-Dichloropropane	ug/L	ND	20	20	17.0	17.8	85	89	60-124	5	26	
1,3,5-Trimethylbenzene	ug/L	7.0	20	20	21.9	22.9	75	80	38-143	4	27	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.8	16.4	79	82	53-123	4	24	
1,3-Dichloropropane	ug/L	ND	20	20	18.4	19.4	92	97	61-130	5	27	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	17.0	81	85	53-121	5	25	
2,2-Dichloropropane	ug/L	ND	20	20	16.0	16.7	80	83	21-146	4	25	
2-Butanone (MEK)	ug/L	ND	100	100	82.8	86.0	83	86	29-131	4	27	
2-Chlorotoluene	ug/L	0.62J	20	20	17.0	17.8	82	86	54-131	5	21	
2-Hexanone	ug/L	ND	100	100	82.1	86.5	82	86	41-137	5	24	
4-Chlorotoluene	ug/L	0.25J	20	20	17.0	17.2	84	85	56-130	1	22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	85.8	89.9	86	90	38-139	5	25	
Acetone	ug/L	36.5	100	100	102	104	67	69	30-147	2	30	
Benzene	ug/L	97.8	20	20	113	116	77	92	58-139	3	21	
Bromobenzene	ug/L	ND	20	20	17.4	18.2	87	91	57-123	5	21	
Bromochloromethane	ug/L	ND	20	20	18.2	19.2	91	96	56-127	6	24	
Bromodichloromethane	ug/L	ND	20	20	16.3	17.3	81	86	56-125	6	26	
Bromoform	ug/L	ND	20	20	18.0	19.5	90	98	41-132	8	21	
Bromomethane	ug/L	ND	20	20	15.2	18.0	76	90	11-162	17	30	
Carbon disulfide	ug/L	ND	20	20	16.9	17.3	85	87	28-155	2	25	
Carbon tetrachloride	ug/L	ND	20	20	18.3	19.3	92	96	54-138	5	23	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923174 923175

Parameter	Units	60111560007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	17.8	18.7	89	93	56-129	5	21	
Chloroethane	ug/L	ND	20	20	16.0	16.4	80	82	42-178	2	33	
Chloroform	ug/L	ND	20	20	17.2	18.0	86	90	55-130	5	23	
Chloromethane	ug/L	ND	20	20	11.4	12.0	57	60	39-141	5	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.0	18.3	85	91	34-152	7	26	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.6	18.4	88	92	49-128	4	23	
Dibromochloromethane	ug/L	ND	20	20	18.3	19.2	92	96	57-119	4	21	
Dibromomethane	ug/L	ND	20	20	19.3	20.8	97	104	58-123	7	26	
Dichlorodifluoromethane	ug/L	ND	20	20	9.7	9.6	48	48	13-152	1	33	
Ethylbenzene	ug/L	12.1	20	20	30.0	30.9	89	94	56-138	3	19	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.9	14.0	64	70	34-141	8	27	
Isopropylbenzene (Cumene)	ug/L	0.92J	20	20	18.0	18.7	85	89	49-120	4	19	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.5	18.9	88	95	35-140	8	20	
Methylene chloride	ug/L	ND	20	20	17.8	17.9	89	90	44-133	1	27	
n-Butylbenzene	ug/L	1.2	20	20	15.2	16.1	70	75	44-138	6	27	
n-Propylbenzene	ug/L	1.0	20	20	17.3	17.7	81	83	46-136	2	22	
Naphthalene	ug/L	13.4	20	20	30.5	35.2	86	109	26-159	14	34	
p-Isopropyltoluene	ug/L	0.26J	20	20	15.4	16.0	76	78	47-129	3	23	
sec-Butylbenzene	ug/L	0.16J	20	20	15.5	16.1	77	80	51-138	4	23	
Styrene	ug/L	ND	20	20	17.9	18.9	89	94	31-162	6	26	
tert-Butylbenzene	ug/L	ND	20	20	15.8	16.7	79	83	54-135	5	22	
Tetrachloroethene	ug/L	ND	20	20	18.3	18.7	91	94	47-140	3	24	
Toluene	ug/L	184	20	20	195	198	55	72	59-140	2	19	M1
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	19.0	91	95	62-130	4	25	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.3	19.7	91	98	41-111	7	20	
Trichloroethene	ug/L	ND	20	20	17.5	18.0	88	90	37-148	3	25	
Trichlorofluoromethane	ug/L	ND	20	20	15.9	16.6	80	83	53-138	4	30	
Vinyl chloride	ug/L	ND	20	20	14.5	14.8	72	74	47-133	2	32	
Xylene (Total)	ug/L	113	60	60	159	163	77	83	52-146	2	19	
1,2-Dichloroethane-d4 (S)	%						95	99	82-119			
4-Bromofluorobenzene (S)	%						100	103	87-113			
Dibromofluoromethane (S)	%						99	103	86-112			
Toluene-d8 (S)	%						101	100	90-110			
Preservation pH		7.0			7.0	7.0				0		pH

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: OEXT/31413
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60111560002

METHOD BLANK: 923077
Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	12/14/11 21:20	
n-Tetracosane (S)	%	54	36-120	12/14/11 21:20	
p-Terphenyl (S)	%	56	40-118	12/14/11 21:20	

LABORATORY CONTROL SAMPLE: 923078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	1.3	53	48-119	M4
n-Tetracosane (S)	%			54	36-120	
p-Terphenyl (S)	%			58	40-118	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: WET/32586
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60111560002

METHOD BLANK: 926981 Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	6.0J	20.0	12/15/11 14:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	6.0J	20.0	12/15/11 14:30	

LABORATORY CONTROL SAMPLE: 926982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 926983

Parameter	Units	60111352001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	166	164	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	166	164	1	9	

SAMPLE DUPLICATE: 926984

Parameter	Units	60111560007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4560	4520	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4560	4520	1	9	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: WET/32449
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60111560002

METHOD BLANK: 923074 Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/08/11 08:09	

SAMPLE DUPLICATE: 923075

Parameter	Units	60111329001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	438	462	5	17	

SAMPLE DUPLICATE: 923076

Parameter	Units	60111335002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	374	378	1	17	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: WET/32456
QC Batch Method: SM 4500-S-2 F
Analysis Method: SM 4500-S-2 F
Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 60111560002

METHOD BLANK: 923195
Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.50	12/08/11 16:50	

LABORATORY CONTROL SAMPLE: 923196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	10	9.7	97	80-120	

MATRIX SPIKE SAMPLE: 923197

Parameter	Units	60111560007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	10	8.9	89	75-125	

SAMPLE DUPLICATE: 923198

Parameter	Units	60111560008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND		15	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

QC Batch: WETA/18657
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60111560002

METHOD BLANK: 926245 Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	12/14/11 15:53	
Chloride	mg/L	0.36J	1.0	12/14/11 15:53	
Sulfate	mg/L	0.20J	1.0	12/14/11 15:53	

METHOD BLANK: 927684 Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	12/15/11 08:56	
Chloride	mg/L	0.37J	1.0	12/15/11 08:56	
Sulfate	mg/L	0.20J	1.0	12/15/11 08:56	

METHOD BLANK: 928135 Matrix: Water
Associated Lab Samples: 60111560002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	12/16/11 09:00	
Chloride	mg/L	0.35J	1.0	12/16/11 09:00	
Sulfate	mg/L	0.25J	1.0	12/16/11 09:00	

LABORATORY CONTROL SAMPLE: 926246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	100	90-110	
Chloride	mg/L	5	5.0	101	90-110	
Sulfate	mg/L	5	5.3	105	90-110	

LABORATORY CONTROL SAMPLE: 927685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.9	98	90-110	
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

LABORATORY CONTROL SAMPLE: 928136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	100	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926247 926248

Parameter	Units	60111334002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	10	10	9.8	10.0	98	100	75-119	2	10	
Chloride	mg/L	10.8	10	10	20.4	20.5	97	97	64-118	0	12	
Sulfate	mg/L	415	100	100	468	481	53	66	61-119	3	10	M0

MATRIX SPIKE SAMPLE: 926249

Parameter	Units	60111380002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	25	25.2	101	75-119	
Chloride	mg/L	45.8	25	71.1	101	64-118	
Sulfate	mg/L	ND	100	161	160	61-119	M0

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QUALIFIERS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCV/3966

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample was not collected in the appropriate container for headspace analysis.
A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M4	A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114498

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60111459002	DW-074922-120111-CM-29	RSK 175	AIR/13778		
60111459008	A-074922-120211-CM-29	TO-15	AIR/13823		
60111560002	DW-074922-120111-CM-29	EPA 3510C	OEXT/31413	EPA 8015B	GCSV/11674
60111560002	DW-074922-120111-CM-29	EPA 5030B/8015B	GCV/3966		
60111560002	DW-074922-120111-CM-29	EPA 3010	MPRP/16421	EPA 6010	ICP/14131
60111560002	DW-074922-120111-CM-29	EPA 5030B/8260	MSV/42327		
60111560002	DW-074922-120111-CM-29	SM 2320B	WET/32586		
60111560002	DW-074922-120111-CM-29	SM 2540C	WET/32449		
60111560002	DW-074922-120111-CM-29	SM 4500-S-2 F	WET/32456		
60111560002	DW-074922-120111-CM-29	EPA 300.0	WETA/18657		

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Pace Minneapolis

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE. Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved Methane, Ethane (RSK-175)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																										
2	DW-074922-120111-CM-29	WT	G			12.1.11	1150		2	X					1											X			02
3	[redacted]																											
4																												
5																												
6																												
7																												
8																												
9																												
10	A-074922-120211-CM-29	AR	G			12.2.11	1120		1	X					1											X			08
11	[redacted]																											
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cassie Braun/CRA	12.2.11	1445	Brent Okes	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Cassie Braun					
SIGNATURE of SAMPLER:	Cassie Braun	DATE Signed (MM/DD/YY): 12.2.11				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 32-8 No. 202
Project Number:	674922

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved methane VOCs (GRO-15)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Requested Analysis Filtered (Y/N)

6011459

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Mg, Ca, B, K, Na	Cassie Brown / CRA	12-2-11	1445	Bernadette	12-3-11	0845	0.4	y	y	y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Cassie Brown		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 12-2-11				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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[redacted]

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: | of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	574922	Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information / SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																														
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Mg, Ca, B, K, Na							
Please report to Pace Analytical c/o Anna Custer	Cobbie Brown / CRA	12-2-11	1445				
	FED EX	12/5/11	913	DON TINGSON	12/5/11	913	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Cobbie Brown	DATE Signed (MM/DD/YY):	12-2-11	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	Cobbie Brown						

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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[redacted]

CHAIN-OF-CUSTODY / Analytical Request Document

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Please report to Pace Analytical, Anna Custer

Page: 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:		Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																											
2	DW-074922-120211-CM-29	WT	G			12/1/11	1150		1	X																X	X	
3	[redacted]																											
4																												
5																												
6																												
7																												
8																												
9	A-074922-120211-CM-29	AR	G			12/1/11	1120		1	N																	X	
10	[redacted]																											
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[redacted]	Cassie Brown / CRA	12/2/11	1445	[signature] ISOTECH LABS	12/3/11	1000	

[redacted]

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/2/11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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[redacted]

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Please report to Pace Analytical's Anna Custer

Page: 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PA 8260 VOC's	PA 8015B GRO	PA 8015B DRO	PA 6010 Diss. Metals**	M 2540C TDS	PA 300.0- Cl, Br, SO4	M 2320B Bicarbonate	M 4500S-2 F Sulfide	Reduced list for VOC's only	Residual Chlorine (Y/N)
1	[redacted]																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
~~*Mg, Ca, B, K, Na~~	Chase Brown / CRA	12 2 11	1445	[signature] TSOTECH-MPLS	12-3-11	1000	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Chase Brown					
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 12 2 11				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Sample Condition Upon Receipt

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Client Name: GDP CRA NM Project #: 60111459

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 898608913470 Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☐ Yes ☐ No

Optional
Proj. Due Date: 12/15
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.4

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 12-3-11 BA

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	[redacted]
-Includes date/time/ID/analyses Matrix: WT / AR		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☑ No (BA) ☑ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 12/5/11 - Client verified the 2 unlabeled vials are for D3 sample. No vials collected for MS/MSD or DUP on pg.2.
12/5 - Tedlar for D3 rcvd in sub lab deflated. Per Christine - fwd the Summa from this sample to sub lab when finished w/ TO-15 in Minn.

Project Manager Review: _____ Date: 12/5/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

ConocoPhillips

Kooper Saiz
Property Tax, Real Estate, Right-of-Way & Claims
3401 East 30th Street
Farmington, NM 87402
Phone: (505) 326-9893
Fax: (505) 324-6136
Kooper.saiz@contractor.conocophillips.com

RCVD FEB 10 '12
OIL CONS. DIV.
DIST. 3

Mr. James C. Good
2566 NM 511
Navajo Dam, NM
87419

February 8, 2012

Re: Water Well Sample Analytical Results

Dear Mr. Good:

Thank you for providing your consent to ConocoPhillips for the sampling of your water well. As discussed, ConocoPhillips has been testing water wells in the vicinity of your well for the presence of methane or hydrogen sulfide.

Enclosed is a copy of the laboratory analytical results for the samples ConocoPhillips' contractor obtained on December 2 and December 20, 2011. The results indicate the presence of methane and hydrogen sulfide. ConocoPhillips is continuing to work with the New Mexico Oil Conservation Division (NMOCD) on investigating the source for methane and hydrogen sulfide in the groundwater in the vicinity. We will keep you apprised of any further investigations that are focused on your property.

Please note that a copy of these results has been provided to the NMOCD.

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

Sincerely,

Kooper Saiz

Cc: Mr. Brandon Powell, NMOCD

Enc

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 02, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between December 03, 2011 and December 22, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Tracy

Alice Tracy

alice.tracy@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60111459011	**A-074922-120211-CM-2566**	Air	12/02/11 11:00	12/03/11 08:45
60111459017	**A-074922-120211-CM-2566**	Air	12/02/11 11:00	12/05/11 09:13
60112644001	**GW-074922-120211-CM-2566**	Water	12/20/11 11:30	12/22/11 09:15

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SAMPLE ANALYTE COUNT

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60111459011	**A-074922-120211-CM-2566**	TO-15	DR1	62	PASI-M
60112644001	**GW-074922-120211-CM-2566**	RSK 175	SK4	1	PASI-M
		EPA 8015B	SDR	3	PASI-K
		EPA 5030/8015 Mod.	KMP	2	PASI-I
		EPA 6010	JGP	5	PASI-K
		EPA 5030B/8260	JDM	70	PASI-K
		SM 2320B	AJM	2	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-S-2 D	LAJ	1	PASI-K
		EPA 300.0	JML	3	PASI-K

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: AIR/13902

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10179168003

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 1121207)
  - Methane
- MSD (Lab ID: 1121208)
  - Methane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

Analyte Comments:

QC Batch: AIR/13902

4e: The sample was not collected in the appropriate container for headspace analysis.
- GW-074922-120211-CM-2566 (Lab ID: 60112644001)
  - Methane

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- GW-074922-120211-CM-2566 (Lab ID: 60112644001)
  - Methane
- MS (Lab ID: 1121207)
  - Methane
- MSD (Lab ID: 1121208)
  - Methane

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **TO-15**
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/13823

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 1114119)
  - Ethanol
  - Tetrahydrofuran

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Sample Comments:

A3: The sample was analyzed by serial dilution.

- A-074922-120211-CM-2566 (Lab ID: 60111459011)

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/11742

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **EPA 5030/8015 Mod.**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 5030/8015 Mod.. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/16583

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60112644001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MSD (Lab ID: 932021)
  - Calcium, Dissolved
  - Magnesium, Dissolved
  - Sodium, Dissolved

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/16583

1e: MMatrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample was greater than four times the spiek value.

- MS (Lab ID: 932020)
  - Sodium, Dissolved

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

Analyte Comments:

QC Batch: MPRP/16583

2e: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. A post digestin spike was performed.

- MS (Lab ID: 932020)
  - Magnesium, Dissolved
- MSD (Lab ID: 932021)
  - Potassium, Dissolved

3e: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample was greater than four times the spiek value.

- MS (Lab ID: 932020)
  - Calcium, Dissolved

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/42853

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Sample: A-074922-120211-CM-2566 **Lab ID: 60111459011** Collected: 12/02/11 11:00 Received: 12/03/11 08:45 Matrix: Air

Comments: • The sample was analyzed by serial dilution.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	ND	ug/m3	281	141	585.6		12/14/11 02:25	67-64-1	
Benzene	ND	ug/m3	190	93.7	585.6		12/14/11 02:25	71-43-2	
Benzyl chloride	ND	ug/m3	615	307	585.6		12/14/11 02:25	100-44-7	
Bromodichloromethane	ND	ug/m3	820	410	585.6		12/14/11 02:25	75-27-4	
Bromoform	ND	ug/m3	1230	615	585.6		12/14/11 02:25	75-25-2	
Bromomethane	ND	ug/m3	463	231	585.6		12/14/11 02:25	74-83-9	
1,3-Butadiene	ND	ug/m3	264	132	585.6		12/14/11 02:25	106-99-0	
2-Butanone (MEK)	**336J**	ug/m3	351	176	585.6		12/14/11 02:25	78-93-3	
Carbon disulfide	ND	ug/m3	369	184	585.6		12/14/11 02:25	75-15-0	
Carbon tetrachloride	ND	ug/m3	375	187	585.6		12/14/11 02:25	56-23-5	
Chlorobenzene	ND	ug/m3	550	275	585.6		12/14/11 02:25	108-90-7	
Chloroethane	ND	ug/m3	316	158	585.6		12/14/11 02:25	75-00-3	
Chloroform	ND	ug/m3	580	290	585.6		12/14/11 02:25	67-66-3	
Chloromethane	ND	ug/m3	246	123	585.6		12/14/11 02:25	74-87-3	
Cyclohexane	**25900**	ug/m3	398	199	585.6		12/14/11 02:25	110-82-7	
Dibromochloromethane	ND	ug/m3	996	498	585.6		12/14/11 02:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	937	468	585.6		12/14/11 02:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	703	351	585.6		12/14/11 02:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	703	351	585.6		12/14/11 02:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	703	351	585.6		12/14/11 02:25	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	586	293	585.6		12/14/11 02:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	480	240	585.6		12/14/11 02:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	240	123	585.6		12/14/11 02:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	474	237	585.6		12/14/11 02:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	474	237	585.6		12/14/11 02:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	474	237	585.6		12/14/11 02:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	550	275	585.6		12/14/11 02:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	539	269	585.6		12/14/11 02:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	539	269	585.6		12/14/11 02:25	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	820	410	585.6		12/14/11 02:25	76-14-2	
Ethanol	ND	ug/m3	1110	498	585.6		12/14/11 02:25	64-17-5	
Ethyl acetate	ND	ug/m3	427	214	585.6		12/14/11 02:25	141-78-6	
Ethylbenzene	ND	ug/m3	515	258	585.6		12/14/11 02:25	100-41-4	
4-Ethyltoluene	ND	ug/m3	1460	732	585.6		12/14/11 02:25	622-96-8	
n-Heptane	**4970**	ug/m3	486	243	585.6		12/14/11 02:25	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	1290	644	585.6		12/14/11 02:25	87-68-3	
n-Hexane	**23300**	ug/m3	422	211	585.6		12/14/11 02:25	110-54-3	
2-Hexanone	ND	ug/m3	486	243	585.6		12/14/11 02:25	591-78-6	
Methylene Chloride	ND	ug/m3	416	208	585.6		12/14/11 02:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	486	243	585.6		12/14/11 02:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	427	214	585.6		12/14/11 02:25	1634-04-4	
Naphthalene	ND	ug/m3	1580	791	585.6		12/14/11 02:25	91-20-3	
2-Propanol	ND	ug/m3	1460	732	585.6		12/14/11 02:25	67-63-0	
Propylene	ND	ug/m3	205	102	585.6		12/14/11 02:25	115-07-1	
Styrene	ND	ug/m3	509	255	585.6		12/14/11 02:25	100-42-5	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Sample: A-074922-120211-CM-2566 **Lab ID: 60111459011** Collected: 12/02/11 11:00 Received: 12/03/11 08:45 Matrix: Air

Comments: • The sample was analyzed by serial dilution.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	409	205	585.6		12/14/11 02:25	79-34-5	
Tetrachloroethene	ND	ug/m3	403	199	585.6		12/14/11 02:25	127-18-4	
Tetrahydrofuran	ND	ug/m3	351	176	585.6		12/14/11 02:25	109-99-9	
THC as Gas	**837000**	ug/m3	35600	25400	585.6		12/14/11 02:25		
Toluene	ND	ug/m3	451	225	585.6		12/14/11 02:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	580	290	585.6		12/14/11 02:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	644	322	585.6		12/14/11 02:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	322	164	585.6		12/14/11 02:25	79-00-5	
Trichloroethene	ND	ug/m3	322	164	585.6		12/14/11 02:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	644	322	585.6		12/14/11 02:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	937	468	585.6		12/14/11 02:25	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	585	293	585.6		12/14/11 02:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	585	293	585.6		12/14/11 02:25	108-67-8	
Vinyl acetate	ND	ug/m3	416	208	585.6		12/14/11 02:25	108-05-4	
Vinyl chloride	ND	ug/m3	152	76.1	585.6		12/14/11 02:25	75-01-4	
m&p-Xylene	ND	ug/m3	1030	515	585.6		12/14/11 02:25	179601-23-1	
o-Xylene	ND	ug/m3	515	258	585.6		12/14/11 02:25	95-47-6	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Sample: GW-074922-120211-CM-2566 **Lab ID: 60112644001** Collected: 12/20/11 11:30 Received: 12/22/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**9230**	ug/L	10.0	5.0	1		12/23/11 12:51	74-82-8	4e,E
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.097	1	12/23/11 00:00	12/29/11 23:05		
Surrogates									
p-Terphenyl (S)	68	%	40-118		1	12/23/11 00:00	12/29/11 23:05	92-94-4	
n-Tetracosane (S)	63	%	36-120		1	12/23/11 00:00	12/29/11 23:05	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030/8015 Mod.								
TPH (C06-C10)	ND	mg/L	0.20		1		12/31/11 12:42		
Surrogates									
4-Bromofluorobenzene (S)	85	%.	45-130		1		12/31/11 12:42	460-00-4	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**127**	ug/L	100	2.3	1	12/27/11 12:05	12/30/11 09:58	7440-42-8	
Calcium, Dissolved	**218000**	ug/L	100	7.1	1	12/27/11 12:05	12/30/11 09:58	7440-70-2	
Magnesium, Dissolved	**11200**	ug/L	50.0	10.0	1	12/27/11 12:05	12/30/11 09:58	7439-95-4	
Potassium, Dissolved	**2910**	ug/L	500	63.4	1	12/27/11 12:05	12/30/11 09:58	7440-09-7	
Sodium, Dissolved	**303000**	ug/L	500	14.2	1	12/27/11 12:05	12/30/11 09:58	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**167**	ug/L	10.0	2.2	1		01/03/12 17:51	67-64-1	
Benzene	ND	ug/L	1.0	0.070	1		01/03/12 17:51	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.064	1		01/03/12 17:51	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.10	1		01/03/12 17:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		01/03/12 17:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.15	1		01/03/12 17:51	75-25-2	
Bromomethane	ND	ug/L	1.0	0.22	1		01/03/12 17:51	74-83-9	
2-Butanone (MEK)	**363**	ug/L	10.0	0.41	1		01/03/12 17:51	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.078	1		01/03/12 17:51	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.047	1		01/03/12 17:51	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.066	1		01/03/12 17:51	98-06-6	
Carbon disulfide	**0.16J**	ug/L	5.0	0.053	1		01/03/12 17:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.23	1		01/03/12 17:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.093	1		01/03/12 17:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.19	1		01/03/12 17:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.087	1		01/03/12 17:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		01/03/12 17:51	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.19	1		01/03/12 17:51	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		01/03/12 17:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.66	1		01/03/12 17:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.091	1		01/03/12 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.13	1		01/03/12 17:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.12	1		01/03/12 17:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.077	1		01/03/12 17:51	95-50-1	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Sample: GW-074922-120211-CM-2566 **Lab ID: 60112644001** Collected: 12/20/11 11:30 Received: 12/22/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,3-Dichlorobenzene	ND	ug/L	1.0	0.068	1		01/03/12 17:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.072	1		01/03/12 17:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.15	1		01/03/12 17:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.079	1		01/03/12 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.080	1		01/03/12 17:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		01/03/12 17:51	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		01/03/12 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.086	1		01/03/12 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.085	1		01/03/12 17:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.045	1		01/03/12 17:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.097	1		01/03/12 17:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.11	1		01/03/12 17:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.088	1		01/03/12 17:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.066	1		01/03/12 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.080	1		01/03/12 17:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.078	1		01/03/12 17:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.11	1		01/03/12 17:51	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.50	1		01/03/12 17:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.069	1		01/03/12 17:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.065	1		01/03/12 17:51	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.12	1		01/03/12 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.33	1		01/03/12 17:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.077	1		01/03/12 17:51	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.14	1		01/03/12 17:51	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.071	1		01/03/12 17:51	103-65-1	
Styrene	ND	ug/L	1.0	0.080	1		01/03/12 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		01/03/12 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		01/03/12 17:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.073	1		01/03/12 17:51	127-18-4	
Toluene	ND	ug/L	1.0	0.064	1		01/03/12 17:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		01/03/12 17:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		01/03/12 17:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.13	1		01/03/12 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		01/03/12 17:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.064	1		01/03/12 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.064	1		01/03/12 17:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.36	1		01/03/12 17:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.060	1		01/03/12 17:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.094	1		01/03/12 17:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.068	1		01/03/12 17:51	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		01/03/12 17:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	87-113		1		01/03/12 17:51	460-00-4	
Dibromofluoromethane (S)	99	%	86-112		1		01/03/12 17:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	82-119		1		01/03/12 17:51	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Sample: GW-074922-120211-CM-2566 **Lab ID: 60112644001** Collected: 12/20/11 11:30 Received: 12/22/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Surrogates									
Toluene-d8 (S)	104	%	90-110		1		01/03/12 17:51	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		01/03/12 17:51		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**234**	mg/L	20.0	3.8	1		12/29/11 16:15		
Alkalinity, Total as CaCO3	**234**	mg/L	20.0	3.8	1		12/29/11 16:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1810**	mg/L	5.0	5.0	1		12/27/11 09:49		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	**1.7**	mg/L	0.050	0.018	1		12/27/11 15:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	**0.12J**	mg/L	1.0	0.061	1		01/06/12 05:51	24959-67-9	
Chloride	**8.3**	mg/L	1.0	0.054	1		01/06/12 05:51	16887-00-6	
Sulfate	**1170**	mg/L	100	7.6	100		01/06/12 08:36	14808-79-8	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: AIR/13902
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60112644001

METHOD BLANK: 1120389 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	12/23/11 08:25	

LABORATORY CONTROL SAMPLE & LCSD: 1120390 1120391

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	63.4	67.7	105	112	70-130	7	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1121207 1121208

Parameter	Units	10179168003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methane	ug/L	46.0 mg/L	50.5	52.7	63100	61800	33900	30000	30-150	2	30	E,M0, P6

SAMPLE DUPLICATE: 1121211

Parameter	Units	92108905007 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: AIR/13823
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60111459011

METHOD BLANK: 1114118
Matrix: Air
Associated Lab Samples: 60111459011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/13/11 14:52	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	12/13/11 14:52	
1,1,2-Trichloroethane	ug/m3	ND	0.55	12/13/11 14:52	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	12/13/11 14:52	
1,1-Dichloroethane	ug/m3	ND	0.82	12/13/11 14:52	
1,1-Dichloroethene	ug/m3	ND	0.81	12/13/11 14:52	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	12/13/11 14:52	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	12/13/11 14:52	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	12/13/11 14:52	
1,2-Dichlorobenzene	ug/m3	ND	1.2	12/13/11 14:52	
1,2-Dichloroethane	ug/m3	ND	0.41	12/13/11 14:52	
1,2-Dichloropropane	ug/m3	ND	0.94	12/13/11 14:52	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	12/13/11 14:52	
1,3-Butadiene	ug/m3	ND	0.45	12/13/11 14:52	
1,3-Dichlorobenzene	ug/m3	ND	1.2	12/13/11 14:52	
1,4-Dichlorobenzene	ug/m3	ND	1.2	12/13/11 14:52	
2-Butanone (MEK)	ug/m3	ND	0.60	12/13/11 14:52	
2-Hexanone	ug/m3	ND	0.83	12/13/11 14:52	
2-Propanol	ug/m3	ND	2.5	12/13/11 14:52	
4-Ethyltoluene	ug/m3	ND	2.5	12/13/11 14:52	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	12/13/11 14:52	
Acetone	ug/m3	ND	0.48	12/13/11 14:52	
Benzene	ug/m3	ND	0.32	12/13/11 14:52	
Benzyl chloride	ug/m3	ND	1.0	12/13/11 14:52	
Bromodichloromethane	ug/m3	ND	1.4	12/13/11 14:52	
Bromoform	ug/m3	ND	2.1	12/13/11 14:52	
Bromomethane	ug/m3	ND	0.79	12/13/11 14:52	
Carbon disulfide	ug/m3	ND	0.63	12/13/11 14:52	
Carbon tetrachloride	ug/m3	ND	0.64	12/13/11 14:52	
Chlorobenzene	ug/m3	ND	0.94	12/13/11 14:52	
Chloroethane	ug/m3	ND	0.54	12/13/11 14:52	
Chloroform	ug/m3	ND	0.99	12/13/11 14:52	
Chloromethane	ug/m3	ND	0.42	12/13/11 14:52	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/13/11 14:52	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	12/13/11 14:52	
Cyclohexane	ug/m3	ND	0.68	12/13/11 14:52	
Dibromochloromethane	ug/m3	ND	1.7	12/13/11 14:52	
Dichlorodifluoromethane	ug/m3	ND	1.0	12/13/11 14:52	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	12/13/11 14:52	
Ethanol	ug/m3	ND	1.9	12/13/11 14:52	
Ethyl acetate	ug/m3	ND	0.73	12/13/11 14:52	
Ethylbenzene	ug/m3	ND	0.88	12/13/11 14:52	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	12/13/11 14:52	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

METHOD BLANK: 1114118 Matrix: Air

Associated Lab Samples: 60111459011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	12/13/11 14:52	
Methyl-tert-butyl ether	ug/m3	ND	0.73	12/13/11 14:52	
Methylene Chloride	ug/m3	ND	0.71	12/13/11 14:52	
n-Heptane	ug/m3	ND	0.83	12/13/11 14:52	
n-Hexane	ug/m3	ND	0.72	12/13/11 14:52	
Naphthalene	ug/m3	ND	2.7	12/13/11 14:52	
o-Xylene	ug/m3	ND	0.88	12/13/11 14:52	
Propylene	ug/m3	ND	0.35	12/13/11 14:52	
Styrene	ug/m3	ND	0.87	12/13/11 14:52	
Tetrachloroethene	ug/m3	ND	0.69	12/13/11 14:52	
Tetrahydrofuran	ug/m3	ND	0.60	12/13/11 14:52	
THC as Gas	ug/m3	ND	60.8	12/13/11 14:52	
Toluene	ug/m3	ND	0.77	12/13/11 14:52	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/13/11 14:52	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	12/13/11 14:52	
Trichloroethene	ug/m3	ND	0.55	12/13/11 14:52	
Trichlorofluoromethane	ug/m3	ND	1.1	12/13/11 14:52	
Vinyl acetate	ug/m3	ND	0.71	12/13/11 14:52	
Vinyl chloride	ug/m3	ND	0.26	12/13/11 14:52	

LABORATORY CONTROL SAMPLE: 1114119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	48.6	88	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.3	95	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	48.9	88	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.8	91	60-137	
1,1-Dichloroethane	ug/m3	41.2	35.2	86	65-131	
1,1-Dichloroethene	ug/m3	40.3	35.4	88	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	83.5	111	30-150	
1,2,4-Trimethylbenzene	ug/m3	50	49.8	100	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	71.5	92	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	57.9	95	68-139	
1,2-Dichloroethane	ug/m3	41.2	35.6	86	66-132	
1,2-Dichloropropane	ug/m3	47	40.4	86	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	48.1	96	70-141	
1,3-Butadiene	ug/m3	22.5	20.0	89	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	56.8	93	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	43.0	70	66-142	
2-Butanone (MEK)	ug/m3	30	28.8	96	68-134	
2-Hexanone	ug/m3	41.7	35.1	84	70-144	
2-Propanol	ug/m3	23.8	21.5	90	66-139	
4-Ethyltoluene	ug/m3	50	45.2	90	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	35.8	86	70-139	
Acetone	ug/m3	24.2	18.7	77	56-142	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

LABORATORY CONTROL SAMPLE: 1114119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	30.8	95	69-129	
Benzyl chloride	ug/m3	52.5	36.7	70	68-138	
Bromodichloromethane	ug/m3	68.2	62.1	91	70-130	
Bromoform	ug/m3	105	111	105	67-147	
Bromomethane	ug/m3	39.5	34.5	87	67-127	
Carbon disulfide	ug/m3	31.7	27.2	86	65-131	
Carbon tetrachloride	ug/m3	64	49.9	78	62-137	
Chlorobenzene	ug/m3	46.8	41.7	89	72-133	
Chloroethane	ug/m3	26.8	22.9	85	66-127	
Chloroform	ug/m3	49.7	43.5	88	67-130	
Chloromethane	ug/m3	21	21.2	101	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	35.7	88	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	43.2	94	74-137	
Cyclohexane	ug/m3	35	33.7	96	69-137	
Dibromochloromethane	ug/m3	86.6	85.5	99	69-140	
Dichlorodifluoromethane	ug/m3	50.3	43.0	86	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	65.1	92	63-130	
Ethanol	ug/m3	19.2	17.8	93	63-135	SS
Ethyl acetate	ug/m3	36.6	31.9	87	70-135	
Ethylbenzene	ug/m3	44.2	41.4	94	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	114	106	30-150	
m&p-Xylene	ug/m3	88.3	85.0	96	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	30.7	84	54-136	
Methylene Chloride	ug/m3	35.3	32.1	91	56-143	
n-Heptane	ug/m3	41.7	37.8	91	72-130	
n-Hexane	ug/m3	35.8	29.9	83	68-130	
Naphthalene	ug/m3	53.3	51.3	96	30-150	
o-Xylene	ug/m3	44.2	38.4	87	70-141	
Propylene	ug/m3	17.5	16.0	91	61-139	
Styrene	ug/m3	43.3	40.0	92	68-145	
Tetrachloroethene	ug/m3	69	65.2	94	64-142	
Tetrahydrofuran	ug/m3	30	26.4	88	70-134	SS
THC as Gas	ug/m3	3030	2810	93	66-134	
Toluene	ug/m3	38.3	34.1	89	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	35.9	89	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	45.6	99	71-140	
Trichloroethene	ug/m3	54.6	51.6	94	68-132	
Trichlorofluoromethane	ug/m3	57.1	51.1	90	59-136	
Vinyl acetate	ug/m3	35.8	31.9	89	70-142	
Vinyl chloride	ug/m3	26	23.6	91	64-129	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: GCV/14404
QC Batch Method: EPA 5030/8015 Mod.
Analysis Method: EPA 5030/8015 Mod.
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60112644001

METHOD BLANK: 668397
Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH (C06-C10)	mg/L	ND	0.20	12/31/11 10:02	
4-Bromofluorobenzene (S)	%.	102	45-130	12/31/11 10:02	

LABORATORY CONTROL SAMPLE: 668398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH (C06-C10)	mg/L	10	10.7	107	82-118	
4-Bromofluorobenzene (S)	%.			118	45-130	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: MPRP/16583
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60112644001

METHOD BLANK: 932018 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	12/30/11 09:51	
Calcium, Dissolved	ug/L	ND	100	12/30/11 09:51	
Magnesium, Dissolved	ug/L	ND	50.0	12/30/11 09:51	
Potassium, Dissolved	ug/L	ND	500	12/30/11 09:51	
Sodium, Dissolved	ug/L	ND	500	12/30/11 09:51	

LABORATORY CONTROL SAMPLE: 932019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	940	94	80-120	
Calcium, Dissolved	ug/L	10000	9720	97	80-120	
Magnesium, Dissolved	ug/L	10000	9420	94	80-120	
Potassium, Dissolved	ug/L	10000	9480	95	80-120	
Sodium, Dissolved	ug/L	10000	9590	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 932020 932021

Parameter	Units	60112644001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	127	1000	1000	996	906	87	78	75-125	9	20	
Calcium, Dissolved	ug/L	218000	10000	10000	201000	184000	-165	-340	75-125	9	20	3e,M0
Magnesium, Dissolved	ug/L	11200	10000	10000	17500	16000	63	48	75-125	9	20	2e,M0
Potassium, Dissolved	ug/L	2910	10000	10000	11000	10200	81	73	75-125	8	20	2e
Sodium, Dissolved	ug/L	303000	10000	10000	277000	252000	-260	-514	75-125	10	20	1e,M0

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: MSV/42853 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60112644001

METHOD BLANK: 934342 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/03/12 16:49	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/12 16:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/03/12 16:49	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/03/12 16:49	
1,1-Dichloroethane	ug/L	ND	1.0	01/03/12 16:49	
1,1-Dichloroethene	ug/L	ND	1.0	01/03/12 16:49	
1,1-Dichloropropene	ug/L	ND	1.0	01/03/12 16:49	
1,2,3-Trichlorobenzene	ug/L	0.23J	1.0	01/03/12 16:49	
1,2,3-Trichloropropane	ug/L	ND	2.5	01/03/12 16:49	
1,2,4-Trichlorobenzene	ug/L	0.14J	1.0	01/03/12 16:49	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/03/12 16:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	01/03/12 16:49	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/03/12 16:49	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/03/12 16:49	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/12 16:49	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	01/03/12 16:49	
1,2-Dichloropropane	ug/L	ND	1.0	01/03/12 16:49	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/03/12 16:49	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/03/12 16:49	
1,3-Dichloropropane	ug/L	ND	1.0	01/03/12 16:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/03/12 16:49	
2,2-Dichloropropane	ug/L	ND	1.0	01/03/12 16:49	
2-Butanone (MEK)	ug/L	ND	10.0	01/03/12 16:49	
2-Chlorotoluene	ug/L	ND	1.0	01/03/12 16:49	
2-Hexanone	ug/L	ND	10.0	01/03/12 16:49	
4-Chlorotoluene	ug/L	ND	1.0	01/03/12 16:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/03/12 16:49	
Acetone	ug/L	ND	10.0	01/03/12 16:49	
Benzene	ug/L	ND	1.0	01/03/12 16:49	
Bromobenzene	ug/L	ND	1.0	01/03/12 16:49	
Bromochloromethane	ug/L	ND	1.0	01/03/12 16:49	
Bromodichloromethane	ug/L	ND	1.0	01/03/12 16:49	
Bromoform	ug/L	ND	1.0	01/03/12 16:49	
Bromomethane	ug/L	ND	1.0	01/03/12 16:49	
Carbon disulfide	ug/L	ND	5.0	01/03/12 16:49	
Carbon tetrachloride	ug/L	ND	1.0	01/03/12 16:49	
Chlorobenzene	ug/L	ND	1.0	01/03/12 16:49	
Chloroethane	ug/L	ND	1.0	01/03/12 16:49	
Chloroform	ug/L	ND	1.0	01/03/12 16:49	
Chloromethane	ug/L	ND	1.0	01/03/12 16:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 16:49	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/03/12 16:49	
Dibromochloromethane	ug/L	ND	1.0	01/03/12 16:49	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

METHOD BLANK: 934342 Matrix: Water

Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	01/03/12 16:49	
Dichlorodifluoromethane	ug/L	ND	1.0	01/03/12 16:49	
Ethylbenzene	ug/L	ND	1.0	01/03/12 16:49	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/03/12 16:49	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/03/12 16:49	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/03/12 16:49	
Methylene chloride	ug/L	ND	1.0	01/03/12 16:49	
n-Butylbenzene	ug/L	ND	1.0	01/03/12 16:49	
n-Propylbenzene	ug/L	ND	1.0	01/03/12 16:49	
Naphthalene	ug/L	0.21J	10.0	01/03/12 16:49	
p-Isopropyltoluene	ug/L	ND	1.0	01/03/12 16:49	
sec-Butylbenzene	ug/L	ND	1.0	01/03/12 16:49	
Styrene	ug/L	ND	1.0	01/03/12 16:49	
tert-Butylbenzene	ug/L	ND	1.0	01/03/12 16:49	
Tetrachloroethene	ug/L	ND	1.0	01/03/12 16:49	
Toluene	ug/L	ND	1.0	01/03/12 16:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/03/12 16:49	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/03/12 16:49	
Trichloroethene	ug/L	ND	1.0	01/03/12 16:49	
Trichlorofluoromethane	ug/L	ND	1.0	01/03/12 16:49	
Vinyl chloride	ug/L	ND	1.0	01/03/12 16:49	
Xylene (Total)	ug/L	ND	3.0	01/03/12 16:49	
1,2-Dichloroethane-d4 (S)	%	100	82-119	01/03/12 16:49	
4-Bromofluorobenzene (S)	%	95	87-113	01/03/12 16:49	
Dibromofluoromethane (S)	%	95	86-112	01/03/12 16:49	
Toluene-d8 (S)	%	105	90-110	01/03/12 16:49	

LABORATORY CONTROL SAMPLE: 934343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.8	109	81-121	
1,1,1-Trichloroethane	ug/L	20	18.6	93	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	78-124	
1,1,2-Trichloroethane	ug/L	20	20.6	103	79-121	
1,1-Dichloroethane	ug/L	20	17.7	89	73-119	
1,1-Dichloroethene	ug/L	20	15.3	77	75-120	
1,1-Dichloropropene	ug/L	20	17.1	86	79-123	
1,2,3-Trichlorobenzene	ug/L	20	22.2	111	73-122	
1,2,3-Trichloropropane	ug/L	20	21.4	107	77-124	
1,2,4-Trichlorobenzene	ug/L	20	21.1	106	75-120	
1,2,4-Trimethylbenzene	ug/L	20	19.6	98	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	97	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	22.2	111	85-121	
1,2-Dichlorobenzene	ug/L	20	21.1	105	82-115	
1,2-Dichloroethane	ug/L	20	18.9	94	77-125	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

LABORATORY CONTROL SAMPLE: 934343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	37.2	93	79-120	
1,2-Dichloropropane	ug/L	20	19.3	97	83-119	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	79-121	
1,3-Dichlorobenzene	ug/L	20	20.8	104	79-117	
1,3-Dichloropropane	ug/L	20	19.5	97	78-116	
1,4-Dichlorobenzene	ug/L	20	21.3	106	83-115	
2,2-Dichloropropane	ug/L	20	19.1	95	66-123	
2-Butanone (MEK)	ug/L	100	69.8	70	43-165	
2-Chlorotoluene	ug/L	20	20.6	103	81-117	
2-Hexanone	ug/L	100	77.0	77	47-159	
4-Chlorotoluene	ug/L	20	21.3	106	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.9	90	71-129	
Acetone	ug/L	100	59.8	60	18-192	
Benzene	ug/L	20	17.9	90	82-117	
Bromobenzene	ug/L	20	21.5	108	83-116	
Bromochloromethane	ug/L	20	18.3	92	79-121	
Bromodichloromethane	ug/L	20	19.0	95	79-114	
Bromoform	ug/L	20	23.0	115	78-121	
Bromomethane	ug/L	20	16.0	80	36-146	
Carbon disulfide	ug/L	20	19.9	100	75-138	
Carbon tetrachloride	ug/L	20	19.8	99	80-123	
Chlorobenzene	ug/L	20	21.2	106	83-121	
Chloroethane	ug/L	20	18.6	93	42-166	
Chloroform	ug/L	20	18.7	94	82-116	
Chloromethane	ug/L	20	14.5	72	32-127	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	80-119	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	76-119	
Dibromochloromethane	ug/L	20	22.1	111	81-123	
Dibromomethane	ug/L	20	19.7	98	79-123	
Dichlorodifluoromethane	ug/L	20	16.5	82	10-163	
Ethylbenzene	ug/L	20	20.8	104	79-121	
Hexachloro-1,3-butadiene	ug/L	20	21.4	107	78-125	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	80-120	
Methyl-tert-butyl ether	ug/L	20	19.0	95	78-119	
Methylene chloride	ug/L	20	18.7	93	75-118	
n-Butylbenzene	ug/L	20	20.2	101	80-126	
n-Propylbenzene	ug/L	20	19.8	99	83-116	
Naphthalene	ug/L	20	21.5	108	66-133	
p-Isopropyltoluene	ug/L	20	19.5	97	77-120	
sec-Butylbenzene	ug/L	20	19.3	97	81-120	
Styrene	ug/L	20	19.3	96	84-115	
tert-Butylbenzene	ug/L	20	19.4	97	80-117	
Tetrachloroethene	ug/L	20	22.3	111	80-124	
Toluene	ug/L	20	19.0	95	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	79-120	
trans-1,3-Dichloropropene	ug/L	20	22.4	112	76-118	
Trichloroethene	ug/L	20	17.0	85	76-122	
Trichlorofluoromethane	ug/L	20	18.1	91	72-120	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

LABORATORY CONTROL SAMPLE: 934343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	17.1	86	57-163	
Xylene (Total)	ug/L	60	59.8	100	75-120	
1,2-Dichloroethane-d4 (S)	%			109	82-119	
4-Bromofluorobenzene (S)	%			97	87-113	
Dibromofluoromethane (S)	%			104	86-112	
Toluene-d8 (S)	%			104	90-110	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: OEXT/31570 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510C Analysis Description: EPA 8015B
Associated Lab Samples: 60112644001

METHOD BLANK: 931274 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	12/29/11 22:42	
n-Tetracosane (S)	%	58	36-120	12/29/11 22:42	
p-Terphenyl (S)	%	65	40-118	12/29/11 22:42	

LABORATORY CONTROL SAMPLE: 931275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	2.0	79	48-119	
n-Tetracosane (S)	%			57	36-120	
p-Terphenyl (S)	%			70	40-118	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: WET/32829
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60112644001

METHOD BLANK: 933011
Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4.0J	20.0	12/29/11 16:15	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4.0J	20.0	12/29/11 16:15	

LABORATORY CONTROL SAMPLE: 933012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	500	100	90-110	

SAMPLE DUPLICATE: 933231

Parameter	Units	60112457001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	168	170	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	168	170	1	9	

SAMPLE DUPLICATE: 933232

Parameter	Units	60112457002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	168	166	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	168	166	1	9	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: WET/32758
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60112644001

METHOD BLANK: 931924 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/27/11 09:46	

SAMPLE DUPLICATE: 931925

Parameter	Units	60112532010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	820	823	0	17	

SAMPLE DUPLICATE: 931926

Parameter	Units	60112750001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6560	6640	1	17	

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: WET/32778
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60112644001

METHOD BLANK: 932174 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	12/27/11 14:18	

LABORATORY CONTROL SAMPLE: 932175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.50	100	80-120	

MATRIX SPIKE SAMPLE: 932176

Parameter	Units	60112532001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	97	75-125	

SAMPLE DUPLICATE: 932177

Parameter	Units	60112532002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 932178

Parameter	Units	60112532011 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

QC Batch: WETA/18867
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60112644001

METHOD BLANK: 935444 Matrix: Water
Associated Lab Samples: 60112644001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	0.12J	1.0	01/06/12 02:32	
Chloride	mg/L	0.44J	1.0	01/06/12 02:32	
Sulfate	mg/L	ND	1.0	01/06/12 02:32	

LABORATORY CONTROL SAMPLE: 935445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.9	98	90-110	
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 935446 935447

Parameter	Units	60112749001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	250	250	252	263	101	105	75-119	4	10	
Chloride	mg/L	ND	250	250	251	255	91	93	64-118	2	12	
Sulfate	mg/L	845	250	250	1080	1000	94	64	61-119	7	10	

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QUALIFIERS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/31570

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/42853

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	MMatrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample was greater than four times the spiek value.
2e	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. A post digestin spike was performed.
3e	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. Sample was greater than four times the spiek value.
4e	The sample was not collected in the appropriate container for headspace analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

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QUALIFIERS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

ANALYTE QUALIFIERS

SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114506

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60112644001	GW-074922-120211-CM-2566	RSK 175	AIR/13902		
60111459011	A-074922-120211-CM-2566	TO-15	AIR/13823		
60112644001	GW-074922-120211-CM-2566	EPA 3510C	OEXT/31570	EPA 8015B	GCSV/11742
60112644001	GW-074922-120211-CM-2566	EPA 5030/8015 Mod.	GCV/14404		
60112644001	GW-074922-120211-CM-2566	EPA 3010	MPRP/16583	EPA 6010	ICP/14268
60112644001	GW-074922-120211-CM-2566	EPA 5030B/8260	MSV/42853		
60112644001	GW-074922-120211-CM-2566	SM 2320B	WET/32829		
60112644001	GW-074922-120211-CM-2566	SM 2540C	WET/32758		
60112644001	GW-074922-120211-CM-2566	SM 4500-S-2 D	WET/32778		
60112644001	GW-074922-120211-CM-2566	EPA 300.0	WETA/18867		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: of

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 32-8 No. 202
Project Number:	074922

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	Dissolved Methane, BTEX ONLY, +Isotech-Isotopes	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SW-074922-120211-CM-2566	WT	G	12/20/11	1130	1BP2	1BP1U		14	X		XX		1BP3N	1BP3U		X	Y	X	X	X	X	X	X	X	X	60112644
2																											
3	2 unpreserved VOAs for dissolved methane analysis sent to PACE Minnesota																										
4																											
5																											
6																											
7	TB-074922-122111-001																					3	DG9H			X		
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**Mg, Ca, B, K, Na		12-21-11	1400		12-22-11	0915	2-4	Y	Y	Y
*(1) liter unpreserved is to go to Isotech for isotope analysis										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 12-21-11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

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Client Name: COP CRA NM Project # 60112644

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 799875884356 Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional	
Proj. Due Date:	4/c
Proj. Name:	

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 12-22-11

			Comments:
Chain of Custody present:	☑ Yes	☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes	☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes	☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes	☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes	☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes	☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes	☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes	☐ No ☐ N/A	8.
Correct containers used:	☑ Yes	☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes	☐ No ☐ N/A	
Containers intact:	☑ Yes	☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes	☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes	☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes	☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: WT			
All containers needing preservation have been checked.	☑ Yes	☐ No ☐ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑ Yes	☐ No ☐ N/A	
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes	☐ No	Initial when completed ____ Lot # of added preservative ____
Trip Blank present:	☑ Yes	☐ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): 110711-3			
Headspace in VOA vials (>6mm):	☐ Yes	☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes	☐ No ☑ N/A	17. List State: ____

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: ACC Date: 12/22/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples. a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Lenexa

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other 1 Vial HCl/Amb	Requested Analysis Filtered (Y/N)	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	Residual Chlorine (Y/N)	Pace Project No / Lab I.D.
[redacted]																	Y	Y	Y	Y							60111560

BTEX only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**Mg, Ca, B, K, Na	Christine Mathews	12/5/11	1600		12-6-11	0915	2.6	Y	Y	Y
TB-074922-120511-001 = Trip Blank							3.6	Y	Y	Y
							0.1	Y	Y	Y
							4.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 12/5/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

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Client Name: CRA Project # 60411560

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ____

Tracking #: 797805240329 Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date: 12/16/11
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPIC

Thermometer Used: (T-191) T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.6/3.6/0.1/4.0
Temperature should be above freezing to 6°C

Date and Initials of person examining contents: PV 12-6-11

		Comments:
Chain of Custody present:	☑Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	9.
-Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	13. Added 2.5 ~~to~~ of HNO3 to [redacted] pH Finial pH is 6.0 and final pH 1.5
-Includes date/time/ID/analyses Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PV Lot # of added preservative 6090
Trip Blank present:	☑Yes ☐No ☐N/A	15.
Pace Trip Blank lot # (if purchased): 110711-3		
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Date/Time:

[redacted]

Project Manager Review: KFA for ACe Date: 12/7/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE. Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	874922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved methane, VOCs (1-15)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																														
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Chase Braun/CRA	12.2.11	1445	[signature]	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Chase Braun

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12.2.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved methane VOCs (RSK-175)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	A-074922-120211-CM-2360		AR	G			12-2-11	1100		1	X			HCl														X		6011459
2	[redacted]																													
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**Mg, Ca, B, K, Na	Cassie Brown / CRA	12-2-11	1445	Bernadette	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 12-2-11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

[redacted]

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: | of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																												
2																													
3	A-074922-120211-CM-2566	AR	G			12.2.11	1100		1																		X		6011459 017
4	[redacted]																												
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Mg, Ca, B, K, Na							
Please report to Pace Analytical c/o Anna Custer	Cassie Brown / CRA	12.2.11	1445				
	FED EX	12/5/11	913	DON TINGSON	12/5/11	913	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Cassie Brown	DATE Signed (MM/DD/YY):	12.2.11	Temp in °C	Received on Ice (Y/N)
SIGNATURE of SAMPLER:	Cassie Brown			Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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[redacted]

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Please report to Pace Analytical, Anna Custer

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	crnathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:		Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	PA 8260 VOC's	PA 8015B GRO	PA 8015B DRO	PA 6010 Diss. Metals**	M 2540C TDS	PA 300.0- Cl, Br, SO4	M 2320B Bicarbonate	M 4500S-2 F Sulfide	[redacted]	22 (SM #'s)	Residual Chlorine (Y/N)
1	[redacted]																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
[redacted]	Cassie Brown / CRA	12.2.11	1445	ISOTECH LABS	12-3-11	1000				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 12.2.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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[redacted]

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Please report to Pace Analytical's Anna Custer

Page: 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	CRA	Report To	Christine Mathews	Attention:	ENFOS
Address	6121 Indian School Rd NE, Ste 200	Copy To	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference	
Phone	(505)884-0672 Fax (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	M 2540C TDS	EPA 300.0- Cl, Br, SO4	M 2320B Bicarbonate	M 4500S-2 F Sulfide	Residual Chlorine (Y/N)
1	[redacted]																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
~~**Mg, Ca, B, K, Na~~	Casey Brown / CRA	12 2 11	1445	[signature] TSOTECH	12-3-11	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Casey Brown

SIGNATURE of SAMPLER: Casey Brown DATE Signed (MM/DD/YY): 12 2 11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CDP CRA NM Project # 60111459

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 898608913470 Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☐ Yes ☐ No

Optional
Proj. Due Date: 12/15
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.4

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 12-3-11 BA

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	[redacted]
-Includes date/time/ID/analyses Matrix: WT / AR		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☑ No ☑ N/A (BA)	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

[redacted]

Project Manager Review: _____ Date: 12/5/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

ConocoPhillips

Kooper Saiz
Property Tax, Real Estate, Right-of-Way & Claims
3401 East 30th Street
Farmington, NM 87402
Phone: (505) 326-9893
Fax: (505) 324-6136
Kooper.saiz@contractor.conocophillips.com

Vicky L. Estlack
PO Box 6546
Navajo Dam, NM
87419

RCVD FEB 10 '12
OIL CONS. DIV.
DIST. 3

February 8, 2012

Re: Water Well Sample Analytical Results

Dear Mrs. Estlack:

Thank you for providing your consent to ConocoPhillips for the sampling of your water well. As discussed, ConocoPhillips has been testing water wells in the vicinity of your well for the presence of methane or hydrogen sulfide.

Enclosed is a copy of the laboratory analytical results for the samples ConocoPhillips' contractor obtained on December 1, 2011. Based upon the results, your well does not appear to have been impacted by methane or hydrogen sulfide. Per your request, ConocoPhillips did not open the wellhead to obtain an air sample from the well.

Please note that a copy of these results has been provided to the New Mexico Oil Conservation Division (NMOCD). Please feel free to contact me if you have any questions.

Sincerely,

Kooper Saiz

Cc: Mr. Brandon Powell, NMOCD

Enc

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 31, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between December 03, 2011 and December 28, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Tracy

Alice Tracy for
Anna Custer
anna.custer@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nebraska Certification #: Pace
Nevada Certification #: MN_00064
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60111459001	DW-074922-120111-CM-46	Water	12/01/11 09:45	12/03/11 08:45
60111459022	LEVEL III DATA PACKAGE	Water	12/28/11 00:00	12/28/11 00:00

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SAMPLE ANALYTE COUNT

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60111459001	DW-074922-120111-CM-46	RSK 175	SK4	1	PASI-M

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: January 31, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/13778

1e: The sample was not collected in the appropriate container for headspace analysis.
- DW-074922-120111-CM-46 (Lab ID: 60111459001)
  - Methane

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Sample: DW-074922-120111-CM-46 **Lab ID: 60111459001** Collected: 12/01/11 09:45 Received: 12/03/11 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	ND	ug/L	10.0	5.0	1		12/07/11 12:12	74-82-8	1e

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

QC Batch: AIR/13778 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60111459001

METHOD BLANK: 1110878 Matrix: Water
Associated Lab Samples: 60111459001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	12/07/11 08:10	

LABORATORY CONTROL SAMPLE & LCSD: 1110879 1110880

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	62.2	63.4	102	104	70-130	2	30	

SAMPLE DUPLICATE: 1111318

Parameter	Units	20942018 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	166	144	14	30	

SAMPLE DUPLICATE: 1111320

Parameter	Units	20941878 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	64.2	70.3	9	30	

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QUALIFIERS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1e	The sample was not collected in the appropriate container for headspace analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60111459

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60111459001	DW-074922-120111-CM-46	RSK 175	AIR/13778		

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Pace Minneapolis

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: CRA	Report To: Christine Mathews	Attention: ENFOS
Address: 6121 Indian School Rd NE, Ste 200	Copy To: Kelly Blanchard, Angela Bown	Company Name:
Albequerque, NM 87110		Address:
Email To: cmathews@craworld.com	Purchase Order No.:	Pace Quote Reference:
Phone: (505)884-0672 Fax: (505)884-4932	Project Name: San Juan 32-8 No. 202	Pace Project Manager: Anna Custer
Requested Due Date/TAT: standard	Project Number: 074922	Pace Profile #: 5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	Dissolved Methane, VOCs (RSK-175)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DW-074922-120111-CM-AG		WT	G	1	1	12.1.11	945		2	X			2	DG9U				X											001	60111459

[redacted]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Cassie Brown / CRA	12.2.11	1445	Brandi Akers	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 12.2.11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Minneapolis

Pace Analytical™ www.pacelabs.com

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Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 32-8 No. 202
Project Number:	074922

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved methane VOCs (TO-15)		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																											
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

6.0111459

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Mg, Ca, B, K, Na	Cassie Braun / CRA	12-2-11	1445	Benellakins	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Cassie Braun					
SIGNATURE of SAMPLER:	Cassie Braun	DATE Signed (MM/DD/YY): 12-2-11				

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[redacted]

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Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	574922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																											
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**Mg, Ca, B, K, Na	Cobbie Brown / CRA	12-2-11	1445				
Please report to Pace Analytical c/o Anna Custer	FED EX	12/5/11	913	DON TINGUE	12/5/11	913	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cobbie Brown

SIGNATURE of SAMPLER: Cobbie Brown

DATE Signed (MM/DD/YY): 12-2-11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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[redacted]

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Please report to Pace Analytical, Anna Custer

Page: 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:		Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[redacted]	Cassie Brown / CRA	12.2.11	1445	[signature] ISOTECH LABS	12-3-11	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12.2.11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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[redacted]

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Please report to Pace Analytical Anna Custer

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	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
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AIR	AR
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SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	[redacted]																											
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3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
~~**Mg, Ca, B, K, Na~~	Cassie Brown / CRA	12 2 11	1445	[signature] TSOTECHNOLOGY	12-3-11	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 12 2-11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRP CRA NM Project # 60111459

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 898608913470 Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☐ Yes ☐ No

Optional
Proj. Due Date: 12/15
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.4

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 12-3-11 BA

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	[redacted]
-Includes date/time/ID/analyses Matrix: WT / AR		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☑ No ☑ N/A (BA)	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

[redacted]

Project Manager Review: _____ Date: 12/5/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Kooper Saiz
Property Tax, Real Estate, Right-of-Way & Claims
3401 East 30th Street
Farmington, NM 87402
Phone: (505) 326-9893
Fax: (505) 324-6136
Kooper.saiz@contractor.conocophillips.com

RCVD FEB 10 '12
OIL CONS. DIV.
DIST. 3

Lynn Robbins
2604 NM 511
Navajo Dam, NM
87419

February 6, 2012

Re: Water Well Sample Analytical Results

Dear Ms. Robbins:

Thank you for providing your consent to ConocoPhillips for the sampling of your water well. As discussed, ConocoPhillips has been testing water wells in the vicinity of your well for the presence of methane or hydrogen sulfide.

Enclosed is a copy of the laboratory analytical results for the samples ConocoPhillips' contractor obtained on December 2, 2011. Based upon the results, your well does not appear to have been impacted by methane or hydrogen sulfide. There were, however, some detections of compounds commonly associated with PVC glue or solvent (e.g., acetone, MEK and toluene)—possibly an artifact of the water well construction. These detections were encountered in the headspace (air) sample from the well and did not appear in the water samples.

Please note that a copy of these results has also been provided to the New Mexico Oil Conservation Division (NMOCD).

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

Sincerely,

Kooper Saiz

Cc: Mr. Brandon Powell, NMOCD

Enc

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

February 02, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between December 03, 2011 and December 06, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Tracy

alice.tracy@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60111459003	DW-074922-120111-CM-D3	Water	12/01/11 12:55	12/03/11 08:45
60111459009	A-074922-120211-CM-D3	Air	12/02/11 08:35	12/03/11 08:45
60111459016	A-074922-120211-CM-D3	Air	12/02/11 08:35	12/05/11 09:13
60111560003	DW-074922-120111-CM-D3	Water	12/01/11 12:55	12/06/11 09:15

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60111459003	**DW-074922-120111-CM-D3**	RSK 175	SK4	1	PASI-M
60111459009	**A-074922-120211-CM-D3**	TO-15	DR1	62	PASI-M
60111560003	**DW-074922-120111-CM-D3**	EPA 8015B	SDR	3	PASI-K
		EPA 5030B/8015B	PRG	3	PASI-K
		EPA 6010	JGP	5	PASI-K
		EPA 5030B/8260	JDM	70	PASI-K
		SM 2320B	AJM	2	PASI-K
		SM 2540C	BGM	1	PASI-K
		SM 4500-S-2 F	SRM1	1	PASI-K
		EPA 300.0	JML	3	PASI-K

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **RSK 175**
Description: RSK 175 AIR Headspace
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for RSK 175. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/13778

1e: The sample was not collected in the appropriate container for headspace analysis.
- DW-074922-120111-CM-D3 (Lab ID: 60111459003)
  - Methane

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: TO-15
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/13833

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- A-074922-120211-CM-D3 (Lab ID: 60111459009)
  - Ethanol
  - Tetrahydrofuran
- DUP (Lab ID: 1115406)
  - Ethanol
- LCS (Lab ID: 1114983)
  - Ethanol
  - Tetrahydrofuran

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/13833

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 1114983)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichlorobenzene
  - Hexachloro-1,3-butadiene
  - Naphthalene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **TO-15**
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

QC Batch: AIR/13833

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

- LCS (Lab ID: 1114983)
  - Naphthalene

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 1114983)
  - 1,2,4-Trichlorobenzene
  - 1,2-Dichlorobenzene
  - Hexachloro-1,3-butadiene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/3966

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/16421

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60111560007

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 925634)
  - Sodium, Dissolved
- MSD (Lab ID: 925635)
  - Sodium, Dissolved

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/42327

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60111560007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 923174)
  - Toluene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **SM 4500-S-2 F**
Description: 4500S2F Sulfide, Iodometric
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 F. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: February 02, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/18657

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60111334002,60111380002

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 926247)
  - Sulfate
- MS (Lab ID: 926249)
  - Sulfate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Sample: DW-074922-120111-CM-D3 **Lab ID: 60111459003** Collected: 12/01/11 12:55 Received: 12/03/11 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	ND	ug/L	10.0	5.0	1		12/07/11 12:34	74-82-8	1e

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Sample: A-074922-120211-CM-D3 **Lab ID: 60111459009** Collected: 12/02/11 08:35 Received: 12/03/11 08:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**15.0**	ug/m3	0.77	0.39	1.61		12/14/11 15:06	67-64-1	
Benzene	ND	ug/m3	0.52	0.26	1.61		12/14/11 15:06	71-43-2	
Benzyl chloride	ND	ug/m3	1.7	0.85	1.61		12/14/11 15:06	100-44-7	
Bromodichloromethane	ND	ug/m3	2.3	1.1	1.61		12/14/11 15:06	75-27-4	
Bromoform	ND	ug/m3	3.4	1.7	1.61		12/14/11 15:06	75-25-2	
Bromomethane	ND	ug/m3	1.3	0.64	1.61		12/14/11 15:06	74-83-9	
1,3-Butadiene	ND	ug/m3	0.72	0.36	1.61		12/14/11 15:06	106-99-0	
2-Butanone (MEK)	**15.0**	ug/m3	0.97	0.48	1.61		12/14/11 15:06	78-93-3	
Carbon disulfide	ND	ug/m3	1.0	0.51	1.61		12/14/11 15:06	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.0	0.52	1.61		12/14/11 15:06	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	0.76	1.61		12/14/11 15:06	108-90-7	
Chloroethane	ND	ug/m3	0.87	0.43	1.61		12/14/11 15:06	75-00-3	
Chloroform	**16.8**	ug/m3	1.6	0.80	1.61		12/14/11 15:06	67-66-3	
Chloromethane	ND	ug/m3	0.68	0.34	1.61		12/14/11 15:06	74-87-3	
Cyclohexane	**8.8**	ug/m3	1.1	0.55	1.61		12/14/11 15:06	110-82-7	
Dibromochloromethane	ND	ug/m3	2.7	1.4	1.61		12/14/11 15:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.6	1.3	1.61		12/14/11 15:06	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.9	0.97	1.61		12/14/11 15:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.9	0.97	1.61		12/14/11 15:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.9	0.97	1.61		12/14/11 15:06	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.6	0.80	1.61		12/14/11 15:06	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	0.66	1.61		12/14/11 15:06	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.66	0.34	1.61		12/14/11 15:06	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	0.65	1.61		12/14/11 15:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	0.65	1.61		12/14/11 15:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	0.65	1.61		12/14/11 15:06	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	0.76	1.61		12/14/11 15:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	0.74	1.61		12/14/11 15:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	0.74	1.61		12/14/11 15:06	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	2.3	1.1	1.61		12/14/11 15:06	76-14-2	
Ethanol	**2.0J**	ug/m3	3.1	1.4	1.61		12/14/11 15:06	64-17-5	SS
Ethyl acetate	ND	ug/m3	1.2	0.59	1.61		12/14/11 15:06	141-78-6	
Ethylbenzene	ND	ug/m3	1.4	0.71	1.61		12/14/11 15:06	100-41-4	
4-Ethyltoluene	ND	ug/m3	4.0	2.0	1.61		12/14/11 15:06	622-96-8	
n-Heptane	ND	ug/m3	1.3	0.67	1.61		12/14/11 15:06	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.8	1.61		12/14/11 15:06	87-68-3	
n-Hexane	**3.5**	ug/m3	1.2	0.58	1.61		12/14/11 15:06	110-54-3	
2-Hexanone	ND	ug/m3	1.3	0.67	1.61		12/14/11 15:06	591-78-6	
Methylene Chloride	**1.5**	ug/m3	1.1	0.57	1.61		12/14/11 15:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.9**	ug/m3	1.3	0.67	1.61		12/14/11 15:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.2	0.59	1.61		12/14/11 15:06	1634-04-4	
Naphthalene	ND	ug/m3	4.3	2.2	1.61		12/14/11 15:06	91-20-3	
2-Propanol	**2.0J**	ug/m3	4.0	2.0	1.61		12/14/11 15:06	67-63-0	
Propylene	ND	ug/m3	0.56	0.28	1.61		12/14/11 15:06	115-07-1	
Styrene	ND	ug/m3	1.4	0.70	1.61		12/14/11 15:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	0.56	1.61		12/14/11 15:06	79-34-5	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Sample: A-074922-120211-CM-D3 **Lab ID: 60111459009** Collected: 12/02/11 08:35 Received: 12/03/11 08:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	ND	ug/m3	1.1	0.55	1.61		12/14/11 15:06	127-18-4	
Tetrahydrofuran	**482**	ug/m3	19.3	9.7	32.2		12/14/11 04:25	109-99-9	SS
THC as Gas	**2590**	ug/m3	97.9	69.9	1.61		12/14/11 15:06		
Toluene	**112**	ug/m3	1.2	0.62	1.61		12/14/11 15:06	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	1.6	0.80	1.61		12/14/11 15:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.8	0.89	1.61		12/14/11 15:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.89	0.45	1.61		12/14/11 15:06	79-00-5	
Trichloroethene	ND	ug/m3	0.89	0.45	1.61		12/14/11 15:06	79-01-6	
Trichlorofluoromethane	**1.1J**	ug/m3	1.8	0.89	1.61		12/14/11 15:06	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.6	1.3	1.61		12/14/11 15:06	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/m3	1.6	0.80	1.61		12/14/11 15:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	0.80	1.61		12/14/11 15:06	108-67-8	
Vinyl acetate	ND	ug/m3	1.1	0.57	1.61		12/14/11 15:06	108-05-4	
Vinyl chloride	ND	ug/m3	0.42	0.21	1.61		12/14/11 15:06	75-01-4	
m&p-Xylene	ND	ug/m3	2.8	1.4	1.61		12/14/11 15:06	179601-23-1	
o-Xylene	ND	ug/m3	1.4	0.71	1.61		12/14/11 15:06	95-47-6	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Sample: DW-074922-120111-CM-D3 **Lab ID: 60111560003** Collected: 12/01/11 12:55 Received: 12/06/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.097	1	12/08/11 00:00	12/14/11 22:05		
Surrogates									
p-Terphenyl (S)	60	%	40-118		1	12/08/11 00:00	12/14/11 22:05	92-94-4	
n-Tetracosane (S)	61	%	36-120		1	12/08/11 00:00	12/14/11 22:05	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	**0.027J**	mg/L	0.50	0.025	1		12/10/11 02:04		
Surrogates									
4-Bromofluorobenzene (S)	96	%	63-139		1		12/10/11 02:04	460-00-4	
Preservation pH	**1.0**				1		12/10/11 02:04		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**84.8J**	ug/L	100	2.3	1	12/13/11 15:20	12/15/11 18:32	7440-42-8	
Calcium, Dissolved	**106000**	ug/L	100	7.1	1	12/13/11 15:20	12/15/11 18:32	7440-70-2	
Magnesium, Dissolved	**3160**	ug/L	50.0	10.0	1	12/13/11 15:20	12/15/11 18:32	7439-95-4	
Potassium, Dissolved	**1650**	ug/L	500	63.4	1	12/13/11 15:20	12/15/11 18:32	7440-09-7	
Sodium, Dissolved	**169000**	ug/L	500	14.2	1	12/13/11 15:20	12/15/11 18:32	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	2.2	1		12/08/11 11:43	67-64-1	
Benzene	ND	ug/L	1.0	0.070	1		12/08/11 11:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.064	1		12/08/11 11:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.10	1		12/08/11 11:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.11	1		12/08/11 11:43	75-27-4	
Bromoform	ND	ug/L	1.0	0.15	1		12/08/11 11:43	75-25-2	
Bromomethane	ND	ug/L	1.0	0.22	1		12/08/11 11:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.41	1		12/08/11 11:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.078	1		12/08/11 11:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.047	1		12/08/11 11:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.066	1		12/08/11 11:43	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.053	1		12/08/11 11:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.23	1		12/08/11 11:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.093	1		12/08/11 11:43	108-90-7	
Chloroethane	ND	ug/L	1.0	0.19	1		12/08/11 11:43	75-00-3	
Chloroform	ND	ug/L	1.0	0.087	1		12/08/11 11:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.24	1		12/08/11 11:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.19	1		12/08/11 11:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		12/08/11 11:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.66	1		12/08/11 11:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.091	1		12/08/11 11:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.13	1		12/08/11 11:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.12	1		12/08/11 11:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.077	1		12/08/11 11:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.068	1		12/08/11 11:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.072	1		12/08/11 11:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.15	1		12/08/11 11:43	75-71-8	

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Sample: DW-074922-120111-CM-D3 **Lab ID: 60111560003** Collected: 12/01/11 12:55 Received: 12/06/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,1-Dichloroethane	ND	ug/L	1.0	0.079	1		12/08/11 11:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.080	1		12/08/11 11:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		12/08/11 11:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.13	1		12/08/11 11:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.086	1		12/08/11 11:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.085	1		12/08/11 11:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.045	1		12/08/11 11:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.097	1		12/08/11 11:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.11	1		12/08/11 11:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.088	1		12/08/11 11:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.066	1		12/08/11 11:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.080	1		12/08/11 11:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.078	1		12/08/11 11:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.11	1		12/08/11 11:43	87-68-3	
2-Hexanone	ND	ug/L	10.0	0.50	1		12/08/11 11:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.069	1		12/08/11 11:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.065	1		12/08/11 11:43	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.12	1		12/08/11 11:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.33	1		12/08/11 11:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.077	1		12/08/11 11:43	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.14	1		12/08/11 11:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.071	1		12/08/11 11:43	103-65-1	
Styrene	ND	ug/L	1.0	0.080	1		12/08/11 11:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		12/08/11 11:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		12/08/11 11:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.073	1		12/08/11 11:43	127-18-4	
Toluene	ND	ug/L	1.0	0.064	1		12/08/11 11:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.11	1		12/08/11 11:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		12/08/11 11:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.13	1		12/08/11 11:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		12/08/11 11:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.064	1		12/08/11 11:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.064	1		12/08/11 11:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.36	1		12/08/11 11:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.060	1		12/08/11 11:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.094	1		12/08/11 11:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.068	1		12/08/11 11:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.15	1		12/08/11 11:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	87-113		1		12/08/11 11:43	460-00-4	
Dibromofluoromethane (S)	99	%	86-112		1		12/08/11 11:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	88	%	82-119		1		12/08/11 11:43	17060-07-0	
Toluene-d8 (S)	101	%	90-110		1		12/08/11 11:43	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		12/08/11 11:43		

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ANALYTICAL RESULTS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Sample: DW-074922-120111-CM-D3 **Lab ID: 60111560003** Collected: 12/01/11 12:55 Received: 12/06/11 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity,Bicarbonate (CaCO3)	**242**	mg/L	20.0	3.8	1		12/15/11 14:30		
Alkalinity, Total as CaCO3	**242**	mg/L	20.0	3.8	1		12/15/11 14:30		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**800**	mg/L	5.0	5.0	1		12/08/11 08:15		
4500S2F Sulfide, Iodometric	Analytical Method: SM 4500-S-2 F								
Sulfide	ND	mg/L	0.50	0.23	1		12/08/11 16:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.061	1		12/15/11 17:35	24959-67-9	
Chloride	**5.6**	mg/L	1.0	0.054	1		12/15/11 17:35	16887-00-6	
Sulfate	**396**	mg/L	50.0	3.8	50		12/14/11 22:30	14808-79-8	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: AIR/13778
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 60111459003

METHOD BLANK: 1110878 Matrix: Water
Associated Lab Samples: 60111459003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methane	ug/L	ND	10.0	12/07/11 08:10	

LABORATORY CONTROL SAMPLE & LCSD: 1110879 1110880

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	62.2	63.4	102	104	70-130	2	30	

SAMPLE DUPLICATE: 1111318

Parameter	Units	20942018 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	166	144	14	30	

SAMPLE DUPLICATE: 1111320

Parameter	Units	20941878 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	64.2	70.3	9	30	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: AIR/13833
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60111459009

METHOD BLANK: 1114982
Matrix: Air
Associated Lab Samples: 60111459009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	12/14/11 10:03	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	12/14/11 10:03	
1,1,2-Trichloroethane	ug/m3	ND	0.55	12/14/11 10:03	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	12/14/11 10:03	
1,1-Dichloroethane	ug/m3	ND	0.82	12/14/11 10:03	
1,1-Dichloroethene	ug/m3	ND	0.81	12/14/11 10:03	
1,2,4-Trichlorobenzene	ug/m3	ND	0.99	12/14/11 10:03	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	12/14/11 10:03	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	12/14/11 10:03	
1,2-Dichlorobenzene	ug/m3	ND	1.2	12/14/11 10:03	
1,2-Dichloroethane	ug/m3	ND	0.41	12/14/11 10:03	
1,2-Dichloropropane	ug/m3	ND	0.94	12/14/11 10:03	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	12/14/11 10:03	
1,3-Butadiene	ug/m3	ND	0.45	12/14/11 10:03	
1,3-Dichlorobenzene	ug/m3	ND	1.2	12/14/11 10:03	
1,4-Dichlorobenzene	ug/m3	ND	1.2	12/14/11 10:03	
2-Butanone (MEK)	ug/m3	ND	0.60	12/14/11 10:03	
2-Hexanone	ug/m3	ND	0.83	12/14/11 10:03	
2-Propanol	ug/m3	ND	2.5	12/14/11 10:03	
4-Ethyltoluene	ug/m3	ND	2.5	12/14/11 10:03	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	12/14/11 10:03	
Acetone	ug/m3	ND	0.48	12/14/11 10:03	
Benzene	ug/m3	ND	0.32	12/14/11 10:03	
Benzyl chloride	ug/m3	ND	1.0	12/14/11 10:03	
Bromodichloromethane	ug/m3	ND	1.4	12/14/11 10:03	
Bromoform	ug/m3	ND	2.1	12/14/11 10:03	
Bromomethane	ug/m3	ND	0.79	12/14/11 10:03	
Carbon disulfide	ug/m3	ND	0.63	12/14/11 10:03	
Carbon tetrachloride	ug/m3	ND	0.64	12/14/11 10:03	
Chlorobenzene	ug/m3	ND	0.94	12/14/11 10:03	
Chloroethane	ug/m3	ND	0.54	12/14/11 10:03	
Chloroform	ug/m3	ND	0.99	12/14/11 10:03	
Chloromethane	ug/m3	ND	0.42	12/14/11 10:03	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	12/14/11 10:03	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	12/14/11 10:03	
Cyclohexane	ug/m3	ND	0.68	12/14/11 10:03	
Dibromochloromethane	ug/m3	ND	1.7	12/14/11 10:03	
Dichlorodifluoromethane	ug/m3	ND	1.0	12/14/11 10:03	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	12/14/11 10:03	
Ethanol	ug/m3	ND	1.9	12/14/11 10:03	
Ethyl acetate	ug/m3	ND	0.73	12/14/11 10:03	
Ethylbenzene	ug/m3	ND	0.88	12/14/11 10:03	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	12/14/11 10:03	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

METHOD BLANK: 1114982 Matrix: Air
Associated Lab Samples: 60111459009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	12/14/11 10:03	
Methyl-tert-butyl ether	ug/m3	ND	0.73	12/14/11 10:03	
Methylene Chloride	ug/m3	ND	0.71	12/14/11 10:03	
n-Heptane	ug/m3	ND	0.83	12/14/11 10:03	
n-Hexane	ug/m3	ND	0.72	12/14/11 10:03	
Naphthalene	ug/m3	ND	2.7	12/14/11 10:03	
o-Xylene	ug/m3	ND	0.88	12/14/11 10:03	
Propylene	ug/m3	ND	0.35	12/14/11 10:03	
Styrene	ug/m3	ND	0.87	12/14/11 10:03	
Tetrachloroethene	ug/m3	ND	0.69	12/14/11 10:03	
Tetrahydrofuran	ug/m3	ND	0.60	12/14/11 10:03	
THC as Gas	ug/m3	ND	60.8	12/14/11 10:03	
Toluene	ug/m3	ND	0.77	12/14/11 10:03	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	12/14/11 10:03	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	12/14/11 10:03	
Trichloroethene	ug/m3	ND	0.55	12/14/11 10:03	
Trichlorofluoromethane	ug/m3	ND	1.1	12/14/11 10:03	
Vinyl acetate	ug/m3	ND	0.71	12/14/11 10:03	
Vinyl chloride	ug/m3	ND	0.26	12/14/11 10:03	

LABORATORY CONTROL SAMPLE: 1114983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	45.9	83	66-133	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	64.9	93	70-140	
1,1,2-Trichloroethane	ug/m3	55.5	47.2	85	68-132	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	70.9	91	60-137	
1,1-Dichloroethane	ug/m3	41.2	35.3	86	65-131	
1,1-Dichloroethene	ug/m3	40.3	35.0	87	65-132	
1,2,4-Trichlorobenzene	ug/m3	75.5	208	276	30-150	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	44.7	89	69-140	
1,2-Dibromoethane (EDB)	ug/m3	78.1	68.3	87	71-139	
1,2-Dichlorobenzene	ug/m3	61.2	98.7	161	68-139	CH,L3
1,2-Dichloroethane	ug/m3	41.2	35.5	86	66-132	
1,2-Dichloropropane	ug/m3	47	37.4	80	69-130	
1,3,5-Trimethylbenzene	ug/m3	50	45.2	90	70-141	
1,3-Butadiene	ug/m3	22.5	18.6	83	68-128	
1,3-Dichlorobenzene	ug/m3	61.2	57.1	93	66-146	
1,4-Dichlorobenzene	ug/m3	61.2	57.9	95	66-142	
2-Butanone (MEK)	ug/m3	30	25.3	84	68-134	
2-Hexanone	ug/m3	41.7	33.4	80	70-144	
2-Propanol	ug/m3	23.8	18.9	80	66-139	
4-Ethyltoluene	ug/m3	50	43.5	87	65-145	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	34.5	83	70-139	
Acetone	ug/m3	24.2	18.2	75	56-142	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

LABORATORY CONTROL SAMPLE: 1114983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	29.0	89	69-129	
Benzyl chloride	ug/m3	52.5	46.2	88	68-138	
Bromodichloromethane	ug/m3	68.2	61.0	90	70-130	
Bromoform	ug/m3	105	112	106	67-147	
Bromomethane	ug/m3	39.5	31.8	81	67-127	
Carbon disulfide	ug/m3	31.7	26.7	84	65-131	
Carbon tetrachloride	ug/m3	64	49.7	78	62-137	
Chlorobenzene	ug/m3	46.8	39.6	85	72-133	
Chloroethane	ug/m3	26.8	21.4	80	66-127	
Chloroform	ug/m3	49.7	41.4	83	67-130	
Chloromethane	ug/m3	21	21.1	101	63-127	
cis-1,2-Dichloroethene	ug/m3	40.3	33.2	82	69-130	
cis-1,3-Dichloropropene	ug/m3	46.2	40.6	88	74-137	
Cyclohexane	ug/m3	35	32.7	93	69-137	
Dibromochloromethane	ug/m3	86.6	82.7	95	69-140	
Dichlorodifluoromethane	ug/m3	50.3	41.5	82	62-131	
Dichlorotetrafluoroethane	ug/m3	71.1	63.3	89	63-130	
Ethanol	ug/m3	19.2	15.9	83	63-135	SS
Ethyl acetate	ug/m3	36.6	30.6	83	70-135	
Ethylbenzene	ug/m3	44.2	39.8	90	71-141	
Hexachloro-1,3-butadiene	ug/m3	108	332	306	30-150	CH,L3
m&p-Xylene	ug/m3	88.3	84.7	96	68-144	
Methyl-tert-butyl ether	ug/m3	36.7	26.8	73	54-136	
Methylene Chloride	ug/m3	35.3	32.6	92	56-143	
n-Heptane	ug/m3	41.7	36.2	87	72-130	
n-Hexane	ug/m3	35.8	27.8	78	68-130	
Naphthalene	ug/m3	53.3	138	258	30-150	CH,L1
o-Xylene	ug/m3	44.2	37.1	84	70-141	
Propylene	ug/m3	17.5	14.4	82	61-139	
Styrene	ug/m3	43.3	38.6	89	68-145	
Tetrachloroethene	ug/m3	69	62.3	90	64-142	
Tetrahydrofuran	ug/m3	30	22.9	76	70-134	SS
THC as Gas	ug/m3	3030	2310	76	66-134	
Toluene	ug/m3	38.3	33.0	86	69-133	
trans-1,2-Dichloroethene	ug/m3	40.3	34.8	86	64-132	
trans-1,3-Dichloropropene	ug/m3	46.2	41.3	89	71-140	
Trichloroethene	ug/m3	54.6	49.5	91	68-132	
Trichlorofluoromethane	ug/m3	57.1	50.8	89	59-136	
Vinyl acetate	ug/m3	35.8	31.8	89	70-142	
Vinyl chloride	ug/m3	26	21.6	83	64-129	

SAMPLE DUPLICATE: 1115406

Parameter	Units	10177252001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

SAMPLE DUPLICATE: 1115406

Parameter	Units	10177252001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Butadiene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	1.5	1.5	.8	25	
2-Hexanone	ug/m3	ND	ND		25	
2-Propanol	ug/m3	2.5	2.4J		25	
4-Ethyltoluene	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	8.5	8.3	3	25	
Benzene	ug/m3	ND	ND		25	
Benzyl chloride	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	0.59	0.54J		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.1	2.0	3	25	
Dichlorotetrafluoroethane	ug/m3	ND	ND		25	
Ethanol	ug/m3	5.0	5.0	.3	25	SS
Ethyl acetate	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
m&p-Xylene	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	1.6	1.5	8	25	
n-Heptane	ug/m3	ND	ND		25	
n-Hexane	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
o-Xylene	ug/m3	ND	ND		25	
Propylene	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

SAMPLE DUPLICATE: 1115406

Parameter	Units	10177252001 Result	Dup Result	RPD	Max RPD	Qualifiers
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Tetrahydrofuran	ug/m3	ND	ND		25	
THC as Gas	ug/m3	ND	ND		25	
Toluene	ug/m3	0.68	0.68J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	1.2	1.2J		25	
Vinyl acetate	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: GCV/3966
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60111560003

METHOD BLANK: 923981 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	0.026J	0.50	12/09/11 23:48	
4-Bromofluorobenzene (S)	%	92	63-139	12/09/11 23:48	

LABORATORY CONTROL SAMPLE: 923982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.96	96	74-127	
4-Bromofluorobenzene (S)	%			97	63-139	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: MPRP/16421
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60111560003

METHOD BLANK: 925632 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	12/15/11 18:03	
Calcium, Dissolved	ug/L	ND	100	12/15/11 18:03	
Magnesium, Dissolved	ug/L	ND	50.0	12/15/11 18:03	
Potassium, Dissolved	ug/L	ND	500	12/15/11 18:03	
Sodium, Dissolved	ug/L	ND	500	12/15/11 18:03	

LABORATORY CONTROL SAMPLE: 925633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	956	96	80-120	
Calcium, Dissolved	ug/L	10000	9880	99	80-120	
Magnesium, Dissolved	ug/L	10000	10000	100	80-120	
Potassium, Dissolved	ug/L	10000	9880	99	80-120	
Sodium, Dissolved	ug/L	10000	10100	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 925634 925635

Parameter	Units	60111560007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	2040	1000	1000	3030	3030	99	99	75-125	0	20	
Calcium, Dissolved	ug/L	13500	10000	10000	23000	22900	95	95	75-125	0	20	
Magnesium, Dissolved	ug/L	13400	10000	10000	22700	22900	93	95	75-125	1	20	
Potassium, Dissolved	ug/L	41200	10000	10000	51400	51600	102	104	75-125	0	20	
Sodium, Dissolved	ug/L	3030000	10000	10000	3200000	3140000	1690	1090	75-125	2	20	M0

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: MSV/42327
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60111560003

METHOD BLANK: 923172
Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1-Dichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,1-Dichloroethene	ug/L	ND	1.0	12/08/11 10:10	
1,1-Dichloropropene	ug/L	ND	1.0	12/08/11 10:10	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,2,3-Trichloropropane	ug/L	ND	2.5	12/08/11 10:10	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,2,4-Trimethylbenzene	ug/L	0.23J	1.0	12/08/11 10:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	12/08/11 10:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichloroethane	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	12/08/11 10:10	
1,2-Dichloropropane	ug/L	ND	1.0	12/08/11 10:10	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	12/08/11 10:10	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
1,3-Dichloropropane	ug/L	ND	1.0	12/08/11 10:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
2,2-Dichloropropane	ug/L	ND	1.0	12/08/11 10:10	
2-Butanone (MEK)	ug/L	ND	10.0	12/08/11 10:10	
2-Chlorotoluene	ug/L	ND	1.0	12/08/11 10:10	
2-Hexanone	ug/L	ND	10.0	12/08/11 10:10	
4-Chlorotoluene	ug/L	ND	1.0	12/08/11 10:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/08/11 10:10	
Acetone	ug/L	ND	10.0	12/08/11 10:10	
Benzene	ug/L	ND	1.0	12/08/11 10:10	
Bromobenzene	ug/L	ND	1.0	12/08/11 10:10	
Bromochloromethane	ug/L	ND	1.0	12/08/11 10:10	
Bromodichloromethane	ug/L	ND	1.0	12/08/11 10:10	
Bromoform	ug/L	ND	1.0	12/08/11 10:10	
Bromomethane	ug/L	ND	1.0	12/08/11 10:10	
Carbon disulfide	ug/L	ND	5.0	12/08/11 10:10	
Carbon tetrachloride	ug/L	ND	1.0	12/08/11 10:10	
Chlorobenzene	ug/L	ND	1.0	12/08/11 10:10	
Chloroethane	ug/L	ND	1.0	12/08/11 10:10	
Chloroform	ug/L	ND	1.0	12/08/11 10:10	
Chloromethane	ug/L	ND	1.0	12/08/11 10:10	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 10:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 10:10	
Dibromochloromethane	ug/L	ND	1.0	12/08/11 10:10	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

METHOD BLANK: 923172 Matrix: Water

Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	12/08/11 10:10	
Dichlorodifluoromethane	ug/L	ND	1.0	12/08/11 10:10	
Ethylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	12/08/11 10:10	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/08/11 10:10	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/08/11 10:10	
Methylene chloride	ug/L	ND	1.0	12/08/11 10:10	
n-Butylbenzene	ug/L	ND	1.0	12/08/11 10:10	
n-Propylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Naphthalene	ug/L	ND	10.0	12/08/11 10:10	
p-Isopropyltoluene	ug/L	ND	1.0	12/08/11 10:10	
sec-Butylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Styrene	ug/L	ND	1.0	12/08/11 10:10	
tert-Butylbenzene	ug/L	ND	1.0	12/08/11 10:10	
Tetrachloroethene	ug/L	ND	1.0	12/08/11 10:10	
Toluene	ug/L	ND	1.0	12/08/11 10:10	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/08/11 10:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/08/11 10:10	
Trichloroethene	ug/L	ND	1.0	12/08/11 10:10	
Trichlorofluoromethane	ug/L	ND	1.0	12/08/11 10:10	
Vinyl chloride	ug/L	ND	1.0	12/08/11 10:10	
Xylene (Total)	ug/L	ND	3.0	12/08/11 10:10	
1,2-Dichloroethane-d4 (S)	%	85	82-119	12/08/11 10:10	
4-Bromofluorobenzene (S)	%	98	87-113	12/08/11 10:10	
Dibromofluoromethane (S)	%	98	86-112	12/08/11 10:10	
Toluene-d8 (S)	%	102	90-110	12/08/11 10:10	

LABORATORY CONTROL SAMPLE: 923173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.3	102	81-121	
1,1,1-Trichloroethane	ug/L	20	19.1	95	82-119	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	78-124	
1,1,2-Trichloroethane	ug/L	20	19.1	95	79-121	
1,1-Dichloroethane	ug/L	20	17.9	89	73-119	
1,1-Dichloroethene	ug/L	20	15.6	78	75-120	
1,1-Dichloropropene	ug/L	20	18.4	92	79-123	
1,2,3-Trichlorobenzene	ug/L	20	19.9	99	73-122	
1,2,3-Trichloropropane	ug/L	20	18.2	91	77-124	
1,2,4-Trichlorobenzene	ug/L	20	20.0	100	75-120	
1,2,4-Trimethylbenzene	ug/L	20	19.9	99	77-120	
1,2-Dibromo-3-chloropropane	ug/L	20	15.5	77	69-125	
1,2-Dibromoethane (EDB)	ug/L	20	19.4	97	85-121	
1,2-Dichlorobenzene	ug/L	20	20.3	102	82-115	
1,2-Dichloroethane	ug/L	20	17.6	88	77-125	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

LABORATORY CONTROL SAMPLE: 923173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	38.2	96	79-120	
1,2-Dichloropropane	ug/L	20	18.7	94	83-119	
1,3,5-Trimethylbenzene	ug/L	20	19.5	98	79-121	
1,3-Dichlorobenzene	ug/L	20	19.6	98	79-117	
1,3-Dichloropropane	ug/L	20	17.6	88	78-116	
1,4-Dichlorobenzene	ug/L	20	19.5	98	83-115	
2,2-Dichloropropane	ug/L	20	18.2	91	66-123	
2-Butanone (MEK)	ug/L	100	83.8	84	43-165	
2-Chlorotoluene	ug/L	20	20.1	101	81-117	
2-Hexanone	ug/L	100	78.2	78	47-159	
4-Chlorotoluene	ug/L	20	20.3	101	84-116	
4-Methyl-2-pentanone (MIBK)	ug/L	100	73.8	74	71-129	
Acetone	ug/L	100	79.9	80	18-192	
Benzene	ug/L	20	19.2	96	82-117	
Bromobenzene	ug/L	20	19.5	97	83-116	
Bromochloromethane	ug/L	20	19.6	98	79-121	
Bromodichloromethane	ug/L	20	18.1	90	79-114	
Bromoform	ug/L	20	18.5	93	78-121	
Bromomethane	ug/L	20	16.7	83	36-146	
Carbon disulfide	ug/L	20	17.8	89	75-138	
Carbon tetrachloride	ug/L	20	19.8	99	80-123	
Chlorobenzene	ug/L	20	20.2	101	83-121	
Chloroethane	ug/L	20	17.4	87	42-166	
Chloroform	ug/L	20	19.0	95	82-116	
Chloromethane	ug/L	20	12.7	63	32-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	80-119	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	76-119	
Dibromochloromethane	ug/L	20	19.4	97	81-123	
Dibromomethane	ug/L	20	19.6	98	79-123	
Dichlorodifluoromethane	ug/L	20	11.0	55	10-163	
Ethylbenzene	ug/L	20	21.1	105	79-121	
Hexachloro-1,3-butadiene	ug/L	20	21.5	107	78-125	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	80-120	
Methyl-tert-butyl ether	ug/L	20	16.9	85	78-119	
Methylene chloride	ug/L	20	19.2	96	75-118	
n-Butylbenzene	ug/L	20	19.8	99	80-126	
n-Propylbenzene	ug/L	20	20.2	101	83-116	
Naphthalene	ug/L	20	19.6	98	66-133	
p-Isopropyltoluene	ug/L	20	20.3	102	77-120	
sec-Butylbenzene	ug/L	20	20.0	100	81-120	
Styrene	ug/L	20	19.5	97	84-115	
tert-Butylbenzene	ug/L	20	20.2	101	80-117	
Tetrachloroethene	ug/L	20	20.3	102	80-124	
Toluene	ug/L	20	19.8	99	80-120	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	79-120	
trans-1,3-Dichloropropene	ug/L	20	18.7	93	76-118	
Trichloroethene	ug/L	20	19.8	99	76-122	
Trichlorofluoromethane	ug/L	20	16.8	84	72-120	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

LABORATORY CONTROL SAMPLE: 923173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	15.9	80	57-163	
Xylene (Total)	ug/L	60	59.8	100	75-120	
1,2-Dichloroethane-d4 (S)	%			85	82-119	
4-Bromofluorobenzene (S)	%			98	87-113	
Dibromofluoromethane (S)	%			97	86-112	
Toluene-d8 (S)	%			102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923174 923175

Parameter	Units	60111560007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.9	18.4	90	92	56-124	3	26	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.0	17.7	85	89	57-128	4	27	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.2	22.7	106	113	48-137	6	26	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.2	20.4	96	102	57-136	6	25	
1,1-Dichloroethane	ug/L	ND	20	20	16.0	17.0	80	85	55-130	6	27	
1,1-Dichloroethene	ug/L	ND	20	20	15.0	15.1	75	75	46-146	1	25	
1,1-Dichloropropene	ug/L	ND	20	20	16.7	17.8	84	89	57-137	6	27	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	11.0	13.8	55	69	41-136	22	22	
1,2,3-Trichloropropane	ug/L	ND	20	20	21.6	22.5	108	112	56-136	4	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	12.3	14.2	61	71	32-140	15	26	
1,2,4-Trimethylbenzene	ug/L	9.7	20	20	24.8	26.3	76	83	42-133	6	23	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.3	21.6	91	108	36-167	17	29	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.7	22.7	104	113	45-155	9	21	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.4	16.9	82	85	54-125	3	19	
1,2-Dichloroethane	ug/L	ND	20	20	20.4	21.1	102	105	44-145	3	22	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	35.2	37.2	88	93	46-144	6	26	
1,2-Dichloropropane	ug/L	ND	20	20	17.0	17.8	85	89	60-124	5	26	
1,3,5-Trimethylbenzene	ug/L	7.0	20	20	21.9	22.9	75	80	38-143	4	27	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.8	16.4	79	82	53-123	4	24	
1,3-Dichloropropane	ug/L	ND	20	20	18.4	19.4	92	97	61-130	5	27	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	17.0	81	85	53-121	5	25	
2,2-Dichloropropane	ug/L	ND	20	20	16.0	16.7	80	83	21-146	4	25	
2-Butanone (MEK)	ug/L	ND	100	100	82.8	86.0	83	86	29-131	4	27	
2-Chlorotoluene	ug/L	0.62J	20	20	17.0	17.8	82	86	54-131	5	21	
2-Hexanone	ug/L	ND	100	100	82.1	86.5	82	86	41-137	5	24	
4-Chlorotoluene	ug/L	0.25J	20	20	17.0	17.2	84	85	56-130	1	22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	85.8	89.9	86	90	38-139	5	25	
Acetone	ug/L	36.5	100	100	102	104	67	69	30-147	2	30	
Benzene	ug/L	97.8	20	20	113	116	77	92	58-139	3	21	
Bromobenzene	ug/L	ND	20	20	17.4	18.2	87	91	57-123	5	21	
Bromochloromethane	ug/L	ND	20	20	18.2	19.2	91	96	56-127	6	24	
Bromodichloromethane	ug/L	ND	20	20	16.3	17.3	81	86	56-125	6	26	
Bromoform	ug/L	ND	20	20	18.0	19.5	90	98	41-132	8	21	
Bromomethane	ug/L	ND	20	20	15.2	18.0	76	90	11-162	17	30	
Carbon disulfide	ug/L	ND	20	20	16.9	17.3	85	87	28-155	2	25	
Carbon tetrachloride	ug/L	ND	20	20	18.3	19.3	92	96	54-138	5	23	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923174 923175

Parameter	Units	60111560007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	17.8	18.7	89	93	56-129	5	21	
Chloroethane	ug/L	ND	20	20	16.0	16.4	80	82	42-178	2	33	
Chloroform	ug/L	ND	20	20	17.2	18.0	86	90	55-130	5	23	
Chloromethane	ug/L	ND	20	20	11.4	12.0	57	60	39-141	5	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.0	18.3	85	91	34-152	7	26	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.6	18.4	88	92	49-128	4	23	
Dibromochloromethane	ug/L	ND	20	20	18.3	19.2	92	96	57-119	4	21	
Dibromomethane	ug/L	ND	20	20	19.3	20.8	97	104	58-123	7	26	
Dichlorodifluoromethane	ug/L	ND	20	20	9.7	9.6	48	48	13-152	1	33	
Ethylbenzene	ug/L	12.1	20	20	30.0	30.9	89	94	56-138	3	19	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	12.9	14.0	64	70	34-141	8	27	
Isopropylbenzene (Cumene)	ug/L	0.92J	20	20	18.0	18.7	85	89	49-120	4	19	
Methyl-tert-butyl ether	ug/L	ND	20	20	17.5	18.9	88	95	35-140	8	20	
Methylene chloride	ug/L	ND	20	20	17.8	17.9	89	90	44-133	1	27	
n-Butylbenzene	ug/L	1.2	20	20	15.2	16.1	70	75	44-138	6	27	
n-Propylbenzene	ug/L	1.0	20	20	17.3	17.7	81	83	46-136	2	22	
Naphthalene	ug/L	13.4	20	20	30.5	35.2	86	109	26-159	14	34	
p-Isopropyltoluene	ug/L	0.26J	20	20	15.4	16.0	76	78	47-129	3	23	
sec-Butylbenzene	ug/L	0.16J	20	20	15.5	16.1	77	80	51-138	4	23	
Styrene	ug/L	ND	20	20	17.9	18.9	89	94	31-162	6	26	
tert-Butylbenzene	ug/L	ND	20	20	15.8	16.7	79	83	54-135	5	22	
Tetrachloroethene	ug/L	ND	20	20	18.3	18.7	91	94	47-140	3	24	
Toluene	ug/L	184	20	20	195	198	55	72	59-140	2	19	M1
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.2	19.0	91	95	62-130	4	25	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.3	19.7	91	98	41-111	7	20	
Trichloroethene	ug/L	ND	20	20	17.5	18.0	88	90	37-148	3	25	
Trichlorofluoromethane	ug/L	ND	20	20	15.9	16.6	80	83	53-138	4	30	
Vinyl chloride	ug/L	ND	20	20	14.5	14.8	72	74	47-133	2	32	
Xylene (Total)	ug/L	113	60	60	159	163	77	83	52-146	2	19	
1,2-Dichloroethane-d4 (S)	%						95	99	82-119			
4-Bromofluorobenzene (S)	%						100	103	87-113			
Dibromofluoromethane (S)	%						99	103	86-112			
Toluene-d8 (S)	%						101	100	90-110			
Preservation pH		7.0			7.0	7.0				0		pH

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: OEXT/31413
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60111560003

METHOD BLANK: 923077
Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	12/14/11 21:20	
n-Tetracosane (S)	%	54	36-120	12/14/11 21:20	
p-Terphenyl (S)	%	56	40-118	12/14/11 21:20	

LABORATORY CONTROL SAMPLE: 923078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	2.5	1.3	53	48-119	M4
n-Tetracosane (S)	%			54	36-120	
p-Terphenyl (S)	%			58	40-118	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: WET/32586
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60111560003

METHOD BLANK: 926981 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	6.0J	20.0	12/15/11 14:30	
Alkalinity,Bicarbonate (CaCO3)	mg/L	6.0J	20.0	12/15/11 14:30	

LABORATORY CONTROL SAMPLE: 926982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	490	98	90-110	

SAMPLE DUPLICATE: 926983

Parameter	Units	60111352001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	166	164	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	166	164	1	9	

SAMPLE DUPLICATE: 926984

Parameter	Units	60111560007 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	4560	4520	1	9	
Alkalinity,Bicarbonate (CaCO3)	mg/L	4560	4520	1	9	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: WET/32449
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60111560003

METHOD BLANK: 923074 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/08/11 08:09	

SAMPLE DUPLICATE: 923075

Parameter	Units	60111329001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	438	462	5	17	

SAMPLE DUPLICATE: 923076

Parameter	Units	60111335002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	374	378	1	17	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: WET/32456
QC Batch Method: SM 4500-S-2 F
Analysis Method: SM 4500-S-2 F
Analysis Description: 4500S2F Sulfide, Iodometric
Associated Lab Samples: 60111560003

METHOD BLANK: 923195 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.50	12/08/11 16:50	

LABORATORY CONTROL SAMPLE: 923196

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	10	9.7	97	80-120	

MATRIX SPIKE SAMPLE: 923197

Parameter	Units	60111560007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	10	8.9	89	75-125	

SAMPLE DUPLICATE: 923198

Parameter	Units	60111560008 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	ND	ND		15	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

QC Batch: WETA/18657
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60111560003

METHOD BLANK: 926245 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	12/14/11 15:53	
Chloride	mg/L	0.36J	1.0	12/14/11 15:53	
Sulfate	mg/L	0.20J	1.0	12/14/11 15:53	

METHOD BLANK: 927684 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	12/15/11 08:56	
Chloride	mg/L	0.37J	1.0	12/15/11 08:56	
Sulfate	mg/L	0.20J	1.0	12/15/11 08:56	

METHOD BLANK: 928135 Matrix: Water
Associated Lab Samples: 60111560003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	12/16/11 09:00	
Chloride	mg/L	0.35J	1.0	12/16/11 09:00	
Sulfate	mg/L	0.25J	1.0	12/16/11 09:00	

LABORATORY CONTROL SAMPLE: 926246

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	100	90-110	
Chloride	mg/L	5	5.0	101	90-110	
Sulfate	mg/L	5	5.3	105	90-110	

LABORATORY CONTROL SAMPLE: 927685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.9	98	90-110	
Chloride	mg/L	5	4.9	97	90-110	
Sulfate	mg/L	5	5.0	99	90-110	

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QUALITY CONTROL DATA

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

LABORATORY CONTROL SAMPLE: 928136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	100	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	4.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926247 926248

Parameter	Units	60111334002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	10	10	9.8	10.0	98	100	75-119	2	10	
Chloride	mg/L	10.8	10	10	20.4	20.5	97	97	64-118	0	12	
Sulfate	mg/L	415	100	100	468	481	53	66	61-119	3	10	M0

MATRIX SPIKE SAMPLE: 926249

Parameter	Units	60111380002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	25	25.2	101	75-119	
Chloride	mg/L	45.8	25	71.1	101	64-118	
Sulfate	mg/L	ND	100	161	160	61-119	M0

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCV/3966

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	The sample was not collected in the appropriate container for headspace analysis.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M4	A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SAN JUAN 32-8 NO 202 (074922)
Pace Project No.: 60114499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60111459003	DW-074922-120111-CM-D3	RSK 175	AIR/13778		
60111459009	A-074922-120211-CM-D3	TO-15	AIR/13833		
60111560003	DW-074922-120111-CM-D3	EPA 3510C	OEXT/31413	EPA 8015B	GCSV/11674
60111560003	DW-074922-120111-CM-D3	EPA 5030B/8015B	GCV/3966		
60111560003	DW-074922-120111-CM-D3	EPA 3010	MPRP/16421	EPA 6010	ICP/14131
60111560003	DW-074922-120111-CM-D3	EPA 5030B/8260	MSV/42327		
60111560003	DW-074922-120111-CM-D3	SM 2320B	WET/32586		
60111560003	DW-074922-120111-CM-D3	SM 2540C	WET/32449		
60111560003	DW-074922-120111-CM-D3	SM 4500-S-2 F	WET/32456		
60111560003	DW-074922-120111-CM-D3	EPA 300.0	WETA/18657		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other 12mL Methanol	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO_4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	BTEX only	Residual Chlorine (Y/N)	Pace Project No / Lab I.D.
																		Y/N				Yes					
3	DW-074922-12011-CM-D3	WT	G	-	-	12.1.11	1255		11	4			4				4		✓	✓	✓	✓	✓	✓	✓	✓		60111560

[redacted]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Mg, Ca, R, K, Na	Christine Mathews	12/5/11	1600	[illegible]	12-6-11	0915	2.6	Y	Y	Y
TB-074922-12011-001 = Trip Blank							3.6	Y	Y	Y
							0.1	Y	Y	Y
							4.0	Y	Y	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: Christine Mathews DATE Signed (MM/DD/YY): 12/5/11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CRA Project # 60111560

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 797805280329 Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No

Optional
Proj. Due Date: 12/16/11
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☑ Other ZPIC

Thermometer Used: (T-191) T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 2.6/3.6/0.1/4.0

Temperature should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: PV 12-6-11

Chain of Custody present:	☑Yes	☐No	☐N/A	1.
Chain of Custody filled out:	☑Yes	☐No	☐N/A	2.
Chain of Custody relinquished:	☑Yes	☐No	☐N/A	3.
Sampler name & signature on COC:	☑Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☑Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time requested:	☐Yes	☑No	☐N/A	7.
Sufficient volume:	☑Yes	☐No	☐N/A	8.
Correct containers used:	☑Yes	☐No	☐N/A	9.
-Pace containers used:	☑Yes	☐No	☐N/A	
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☑N/A	11.
Filtered volume received for dissolved tests	☐Yes	☐No	☑N/A	12.
Sample labels match COC:	☑Yes	☐No	☐N/A	13. Added 2.5 ~~ml~~ of HNO3 to [redacted] pH finial pH is 6.0 and final pH 1.5
-Includes date/time/ID/analyses Matrix: WT				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed PV Lot # of added preservative 6090
Trip Blank present:	☑Yes	☐No	☐N/A	15.
Pace Trip Blank lot # (if purchased): 110711-3				
Headspace in VOA vials (>6mm):	☐Yes	☑No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / (N) Field Data Required? Y / N

Person Contacted: Date/Time:

[redacted]

Project Manager Review: ASK for ACE Date: 12/7/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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Pace Minneapolis

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	074922	Pace Profile #:	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved Methane, VOCs (RSK-175)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																														
2																															
3	DW-074922-120111-CM-D3	WT	G				12.1.11	1255		2	X																	X			003
4	[redacted]																														
5																															
6																															
7																															
8																															
9																															
10																															
11	A-074922-120211-CM-D3	AR	G				12.2.11	0835		1	X																	X			004
12	[redacted]																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
[redacted]	Cassie Brown/CRA	12.2.11	1445	Brandi Akers	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown

DATE Signed (MM/DD/YY): 12.2.11

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Pace Minneapolis

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	CRA
Address:	6121 Indian School Rd NE, Ste 200
	Albequerque, NM 87110
Email To:	cmathews@craworld.com
Phone: (505)884-0672	Fax: (505)884-4932
Requested Due Date/TAT:	standard

Section B Required Project Information:

Report To:	Christine Mathews
Copy To:	Kelly Blanchard, Angela Bown
Purchase Order No.:	
Project Name:	San Juan 32-8 No. 202
Project Number:	674922

Section C Invoice Information:

Attention:	ENFOS
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Anna Custer
Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	dissolved methane VOCs (GRO-15)		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																											
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

Requested Analysis Filtered (Y/N)

60111459

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Mg, Ca, B, K, Na	Cassie Brown / CRA	12-2-11	1445	Bernadette	12-3-11	0845	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Cassie Brown		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	Cassie Brown	DATE Signed (MM/DD/YY): 12-2-11				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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[redacted]

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	CRA	Report To:	Christine Mathews	Attention:	ENFOS
Address:	6121 Indian School Rd NE, Ste 200	Copy To:	Kelly Blanchard, Angela Bown	Company Name:	
	Albequerque, NM 87110			Address:	
Email To:	cmathews@craworld.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	(505)884-0672 Fax: (505)884-4932	Project Name:	San Juan 32-8 No. 202	Pace Project Manager:	Anna Custer
Requested Due Date/TAT:	standard	Project Number:	574922	Pace Profile #:	5514, 3

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information / SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																														6011459
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**Mg, Ca, B, K, Na							
Please report to Pace Analytical c/o Anna Custer	Cassie Brown / CRA	12.2.11	1445				
	FED EX	12/5/11	913	DON TINGSON	12/5/11	913	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Cassie Brown					
SIGNATURE of SAMPLER:	Cassie Brown	DATE Signed (MM/DD/YY): 12.2.11				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

[redacted]

CHAIN-OF-CUSTODY / Analytical Request Document

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Please report to Pace Analytical, Anna Custer

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: CRA	Report To: Christine Mathews	Attention: ENFOS
Address: 6121 Indian School Rd NE, Ste 200	Copy To: Kelly Blanchard, Angela Bown	Company Name:
Albequerque, NM 87110		Address:
Email To: cmathews@craworld.com	Purchase Order No.:	Pace Quote Reference:
Phone: (505)884-0672 Fax: (505)884-4932	Project Name: San Juan 32-8 No. 202	Pace Project Manager: Anna Custer
Requested Due Date/TAT: standard	Project Number:	Pace Profile #: 5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Preservatives: NaOH	Preservatives: $Na_2S_2O_3$	Preservatives: Methanol	Preservatives: Other	Analysis Test Y/N	EPA 8260 VOC's	EPA 8015B GRO	EPA 8015B DRO	EPA 6010 Diss. Metals**	SM 2540C TDS	EPA 300.0- Cl, Br, SO4	SM 2320B Bicarbonate	SM 4500S-2 F Sulfide	[redacted]	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[redacted]	Cassie Brum / CRA	12.2.11	1445	ISOTECH	12-3-11	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brum

SIGNATURE of SAMPLER: Cassie Brum DATE Signed (MM/DD/YY): 12.2.11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

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[redacted]

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Please report to Pace Analytical, Anna Custer

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	CRA	Report To	Christine Mathews	Attention	ENFOS
Address	6121 Indian School Rd NE, Ste 200	Copy To	Kelly Blanchard, Angela Bown	Company Name	
	Albequerque, NM 87110			Address	
Email To	cmathews@craworld.com	Purchase Order No.		Pace Quote Reference	
Phone	(505)884-0672 Fax (505)884-4932	Project Name	San Juan 32-8 No. 202	Pace Project Manager	Anna Custer
Requested Due Date/TAT:	standard	Project Number	074922	Pace Profile #	5514, 3

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NM

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	PA 8260 VOC's	PA 8015B GRO	PA 8015B DRO	PA 6010 Diss. Metals**	M 2540C TDS	PA 300.0- Cl, Br, SO4	M 2320B Bicarbonate	M 4500S-2 F Sulfide	Project Comments: 1 VOC's only	Residual Chlorine (Y/N)
1	[redacted]																											
2																												
3																												
4																												
5																												
6	ALSO Rec'd																											
7	dw-074922-120211-Cm-dup																											
8	dw-074922-120211-Cm-ms/msd																											
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
~~Orig. Co. B, K, No~~	Cassie Brown / CRA	12 2 11	1445	[signature] TSOTECT	12-3-11	1000	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Cassie Brown

SIGNATURE of SAMPLER: Cassie Brown DATE Signed (MM/DD/YY): 12 2 11

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: CDP CRA NM Project # 60111459

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: 898608913470 Pace Shipping Label Used? ☑ Yes ☐ No

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☐ Yes ☐ No

Optional
Proj. Due Date: 12/15
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☑ Foam ☐ None ☐ Other _____

Thermometer Used: T-191 / T-194 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 0.4

Temperature should be above freezing to 6°C

Date and Initials of person examining contents: 12-3-11 BA

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	[redacted]
-Includes date/time/ID/analyses Matrix: WT / AR		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑ Yes ☐ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☑ No ☑ N/A (BA)	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☑ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

[redacted]

Project Manager Review: KW Date: 12/5/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
1380G Plaza Office Building
315 Johnstone Avenue
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

Ms. Mary Jo Albin
3921 Highland View Drive
Farmington, NM 87402

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

February 18, 2013

Re: Water Well Sample Analytical Results

Dear Ms. Albin:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on October 16, 2012, from the water well on your property located on Road 4049, in San Juan County, New Mexico. Summary tables are included along with the laboratory reports. The summary table for water results depicts New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your well for the October 2012 sampling event as well as the prior May 2012 and December 2011 sampling events. Note that during all three sampling events, the only exceedances of established NMWQCC standards are for total dissolved solids and sulfate. This is typical of water wells in the region.

As you know, ConocoPhillips initially contacted you in late 2011, seeking permission to sample your well in response to methane and hydrogen sulfide found in a vicinity water well. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the possible source(s) for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that methane was detected at a concentration of 750 micrograms per liter (µg/L) in a water sample from your well during the October 2012 sampling. This is less than the 3,160 µg/L and 1,940 µg/l of methane measured in water samples from your well in December 2011 and May 2012, respectively. The variability is possibly the result of seasonal water table fluctuations.

As with the prior sample analytical results, ConocoPhillips consulted a groundwater expert on characterization of the methane found in the water sample from your well. Upon scrutiny of various chemical isotopes, helium concentration, mole ratios, and gas wetness, the expert concluded that the methane does not bear any resemblance to the commercially produced methane in the area, which is sourced from the Mesaverde and Fruitland Coal Formations. The methane is therefore considered to be naturally occurring -- likely a product of shallow coal seams or organic-rich shales.

Until the overall investigation in the vicinity of your property is complete, ConocoPhillips will continue to provide water delivery service to your property to meet your use needs. ConocoPhillips will likely request access to collect at least one more water sample from your

well in April or May. At such time, a ConocoPhillips representative will contact you to seek your concurrence and schedule a sampling date.

The results of the October 2012 sampling event for your water well have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - MAY 2012
03259 - ALBIN

AIR TO-15 RESULTS			
Well ID→	03259		
Sample ID→	A-074922-120211-CM-29	A-074922-052212-CM03259-2	A-074922-101612-CM03259-3
Date→	12/01/2011	05/22/2012	10/16/2012
Constituents ↓	Results in ug/m3		
Acetone	< 77.2	61.4	< 35.3
Benzene	< 52.3	4.3	< 23.9
Bromodichloromethane	< 225	< 7.2	< 100
Bromomethane	< 127	< 4.1	< 58.1
2-Butanone	1,780	1,470	807
Carbon disulfide	< 101	11.2	< 46.4
Carbon tetrachloride	< 103	< 6.7	< 47.1
Chloroethane	< 86.8	4.1	< 39.7
Chloroform	3,710	3,080	1,600
Chloromethane	< 67.5	6.0	< 30.9
Cyclohexane	< 109	4.5	< 51.5
Dichlorodifluoromethane	< 161	< 5.3	< 74.3
1,4-Dichlorobenzene	< 193	< 6.4	< 89.8
1,2 - Dichloroethane	< 65.9	6.6	< 30.2
1,1 - Dichloroethene	< 130	< 4.2	<59.6
cis - 1,2 - Dichloroethene	< 130	< 4.2	< 59.6
trans - 1,2 - Dichloroethene	< 130	< 4.2	< 59.6
trans - 1,3 - Dichloropropene	< 148	< 4.9	< 67.7
Dichlorotetrafluorethane	< 225	< 7.5	< 104
Ethanol	< 306	17.4	68.0
Ethylbenzene	< 142	< 4.6	107
4 -Ethyltoluene	< 402	< 5.2	< 73.6
n-Heptane	< 133	< 4.4	< 61.1
2-Hexanone	< 133	< 4.4	< 61.1
Hexachloro-1,3-butadiene	< 354	< 11.4	< 162
n-Hexane	< 116	< 3.8	< 53.0
Methylene Chloride	< 114	< 3.7	< 52.2
4-methyl-2-pentanone	< 133	11.4	< 61.1
Naphthalene	< 434	< 5.6	< 78.7
2-propanol	< 402	6.2	< 36.8
Styrene	< 140	< 4.5	< 64.0
1,1,2,2-Tetrachloroethane	< 112	< 7.3	< 51.4
Tetrahydrofuran	6,180	1,410	1,010
Toluene	9,380	6,280	3,810
1,2,4-Trichlorobenzene	< 159	< 7.9	< 111
1,1,2-Trichloroethane	< 88.4	< 5.8	< 40.5
Trichloroethene	< 88.4	< 5.7	< 40.5
Trichlorofluoromethane	< 177	< 6.0	< 83.9
1,1,2-Trichlorotrifluoroethane	< 257	< 8.2	< 118
1,2,4-Trimethylbenzene	< 161	< 5.2	137
1,3,5-Trimethylbenzene	< 161	< 5.2	< 73.5
Vinyl Chloride	< 41.8	< 2.7	< 19.1
THC as Gas	13,300	21,000	19,300
Xylenes	< 425	15.3	316

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume
10. **** = Data obtained from Isobag

There is no EPA-approved method for analysis of methane in the headspace of groundwater samples. Prior to October 2012, analysis of dissolved gases in groundwater samples from this location utilized Method RSK 175. This method requires collection of a groundwater sample in a glass vial with a screw-on cap. Therefore, the sample has the potential for exposure to ambient air during collection. Beginning in October 2012, IsoBags® have been utilized to collect groundwater samples from this location. An IsoBag eliminates exposure of the sample to ambient air thus preventing the potential loss of dissolved gases prior to analysis.

Pace Analytical Services, Inc.
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(913)599-5665

November 06, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between October 17, 2012 and October 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60131358001	GW-074922-101612-CM-03259-3	Water	10/16/12 12:00	10/17/12 08:35
60131358002	A-074922-101612-CM-03259-3	Air	10/16/12 12:40	10/22/12 12:45

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SAMPLE ANALYTE COUNT

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60131358001	**GW-074922-101612-CM-03259-3**	EPA 8015B	NAW	3	PASI-K
		EPA 5030B/8015B	SDR	3	PASI-K
		EPA 6010	JGP, SMW	5	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		SM 2320B	DJR	1	PASI-K
		SM 2540C	FJF	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	AJM	3	PASI-K
60131358002	**A-074922-101612-CM-03259-3**	TO-15	CJR	62	PASI-M

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **TO-15**
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/4130

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/20061

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131355001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1081813)
  - Calcium, Dissolved
  - Sodium, Dissolved
- MSD (Lab ID: 1081814)
  - Calcium, Dissolved
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/22188

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131349001,60131355001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1085820)
  - Bromide
- MSD (Lab ID: 1085821)
  - Bromide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Sample: GW-074922-101612-CM-03259-3 **Lab ID: 60131358001** Collected: 10/16/12 12:00 Received: 10/17/12 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.16	1	10/19/12 00:00	10/19/12 20:05		
Surrogates									
p-Terphenyl (S)	56	%	35-121		1	10/19/12 00:00	10/19/12 20:05	92-94-4	
n-Tetracosane (S)	58	%	35-120		1	10/19/12 00:00	10/19/12 20:05	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	ND	mg/L	0.50	0.12	1		10/22/12 19:30		
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/22/12 19:30	460-00-4	
Preservation pH	**1.0**				1		10/22/12 19:30		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**152**	ug/L	100	1.8	1	10/18/12 16:00	10/20/12 16:42	7440-42-8	
Calcium, Dissolved	**383000**	ug/L	100	35.8	1	10/18/12 16:00	10/20/12 16:42	7440-70-2	
Magnesium, Dissolved	**9830**	ug/L	100	34.4	2	10/18/12 16:00	10/25/12 15:03	7439-95-4	
Potassium, Dissolved	**4710**	ug/L	1000	128	2	10/18/12 16:00	10/25/12 15:03	7440-09-7	
Sodium, Dissolved	**669000**	ug/L	1000	80.2	2	10/18/12 16:00	10/25/12 15:03	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.1	1		10/23/12 04:18	67-64-1	
Benzene	ND	ug/L	1.0	0.098	1		10/23/12 04:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.14	1		10/23/12 04:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.35	1		10/23/12 04:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.13	1		10/23/12 04:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.13	1		10/23/12 04:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.17	1		10/23/12 04:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	3.2	1		10/23/12 04:18	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.047	1		10/23/12 04:18	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.075	1		10/23/12 04:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.46	1		10/23/12 04:18	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.060	1		10/23/12 04:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.097	1		10/23/12 04:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		10/23/12 04:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		10/23/12 04:18	75-00-3	
Chloroform	**2.6**	ug/L	1.0	0.13	1		10/23/12 04:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.076	1		10/23/12 04:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.062	1		10/23/12 04:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		10/23/12 04:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.80	1		10/23/12 04:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.18	1		10/23/12 04:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.18	1		10/23/12 04:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/23/12 04:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.15	1		10/23/12 04:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.18	1		10/23/12 04:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.092	1		10/23/12 04:18	106-46-7	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Sample: GW-074922-101612-CM-03259-3 **Lab ID: 60131358001** Collected: 10/16/12 12:00 Received: 10/17/12 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.097	1		10/23/12 04:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.18	1		10/23/12 04:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/23/12 04:18	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.31	1		10/23/12 04:18	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.18	1		10/23/12 04:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		10/23/12 04:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		10/23/12 04:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		10/23/12 04:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		10/23/12 04:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.38	1		10/23/12 04:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.049	1		10/23/12 04:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.079	1		10/23/12 04:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/23/12 04:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/23/12 04:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.22	1		10/23/12 04:18	87-68-3	
2-Hexanone	ND	ug/L	10.0	2.4	1		10/23/12 04:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		10/23/12 04:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.11	1		10/23/12 04:18	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.24	1		10/23/12 04:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.46	1		10/23/12 04:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.083	1		10/23/12 04:18	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.11	1		10/23/12 04:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.088	1		10/23/12 04:18	103-65-1	
Styrene	ND	ug/L	1.0	0.14	1		10/23/12 04:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.21	1		10/23/12 04:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.086	1		10/23/12 04:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.13	1		10/23/12 04:18	127-18-4	
Toluene	ND	ug/L	1.0	0.15	1		10/23/12 04:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.22	1		10/23/12 04:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.12	1		10/23/12 04:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.071	1		10/23/12 04:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		10/23/12 04:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.12	1		10/23/12 04:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.067	1		10/23/12 04:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.32	1		10/23/12 04:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.068	1		10/23/12 04:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.076	1		10/23/12 04:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.12	1		10/23/12 04:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/23/12 04:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		10/23/12 04:18	460-00-4	
Dibromofluoromethane (S)	100	%	80-120		1		10/23/12 04:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		10/23/12 04:18	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		10/23/12 04:18	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/23/12 04:18		

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Sample: GW-074922-101612-CM-03259-3 **Lab ID: 60131358001** Collected: 10/16/12 12:00 Received: 10/17/12 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**170**	mg/L	20.0	1.2	1		10/23/12 09:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3700**	mg/L	5.0	5.0	1		10/19/12 11:03		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		10/23/12 19:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.078	1		10/24/12 18:54	24959-67-9	
Chloride	**5.6**	mg/L	1.0	0.50	1		10/24/12 18:54	16887-00-6	
Sulfate	**2660**	mg/L	200	24.0	200		10/24/12 19:13	14808-79-8	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Sample: A-074922-101612-CM-03259-3 **Lab ID: 60131358002** Collected: 10/16/12 12:40 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	ND	ug/m3	35.3	17.7	73.58		11/05/12 13:49	67-64-1	
Benzene	ND	ug/m3	23.9	12.0	73.58		11/05/12 13:49	71-43-2	
Benzyl chloride	ND	ug/m3	77.3	38.6	73.58		11/05/12 13:49	100-44-7	
Bromodichloromethane	ND	ug/m3	100	13.0	73.58		11/05/12 13:49	75-27-4	
Bromoform	ND	ug/m3	155	77.3	73.58		11/05/12 13:49	75-25-2	
Bromomethane	ND	ug/m3	58.1	13.3	73.58		11/05/12 13:49	74-83-9	
1,3-Butadiene	ND	ug/m3	33.1	16.6	73.58		11/05/12 13:49	106-99-0	
2-Butanone (MEK)	**807**	ug/m3	44.1	11.5	73.58		11/05/12 13:49	78-93-3	
Carbon disulfide	ND	ug/m3	46.4	23.3	73.58		11/05/12 13:49	75-15-0	
Carbon tetrachloride	ND	ug/m3	47.1	23.5	73.58		11/05/12 13:49	56-23-5	
Chlorobenzene	ND	ug/m3	69.2	34.4	73.58		11/05/12 13:49	108-90-7	
Chloroethane	ND	ug/m3	39.7	19.9	73.58		11/05/12 13:49	75-00-3	
Chloroform	**1600**	ug/m3	72.8	36.6	73.58		11/05/12 13:49	67-66-3	
Chloromethane	ND	ug/m3	30.9	15.5	73.58		11/05/12 13:49	74-87-3	
Cyclohexane	ND	ug/m3	51.5	25.8	73.58		11/05/12 13:49	110-82-7	
Dibromochloromethane	ND	ug/m3	127	63.7	73.58		11/05/12 13:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	115	57.4	73.58		11/05/12 13:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	89.8	44.9	73.58		11/05/12 13:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	89.8	44.9	73.58		11/05/12 13:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	89.8	44.9	73.58		11/05/12 13:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	74.3	37.0	73.58		11/05/12 13:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	60.3	30.3	73.58		11/05/12 13:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	30.2	15.2	73.58		11/05/12 13:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	59.6	29.7	73.58		11/05/12 13:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	59.6	11.3	73.58		11/05/12 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	59.6	29.7	73.58		11/05/12 13:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	69.2	34.6	73.58		11/05/12 13:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	67.7	8.2	73.58		11/05/12 13:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	67.7	33.8	73.58		11/05/12 13:49	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	104	15.7	73.58		11/05/12 13:49	76-14-2	
Ethanol	**68.0**	ug/m3	28.0	14.1	73.58		11/05/12 13:49	64-17-5	
Ethyl acetate	ND	ug/m3	53.7	26.4	73.58		11/05/12 13:49	141-78-6	
Ethylbenzene	**107**	ug/m3	64.8	8.8	73.58		11/05/12 13:49	100-41-4	
4-Ethyltoluene	ND	ug/m3	73.6	36.8	73.58		11/05/12 13:49	622-96-8	
n-Heptane	ND	ug/m3	61.1	30.5	73.58		11/05/12 13:49	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	162	80.9	73.58		11/05/12 13:49	87-68-3	
n-Hexane	ND	ug/m3	53.0	26.5	73.58		11/05/12 13:49	110-54-3	
2-Hexanone	ND	ug/m3	61.1	30.5	73.58		11/05/12 13:49	591-78-6	
Methylene Chloride	ND	ug/m3	52.2	26.0	73.58		11/05/12 13:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	61.1	30.5	73.58		11/05/12 13:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	53.7	6.5	73.58		11/05/12 13:49	1634-04-4	
Naphthalene	ND	ug/m3	78.7	39.2	73.58		11/05/12 13:49	91-20-3	
2-Propanol	ND	ug/m3	36.8	6.8	73.58		11/05/12 13:49	67-63-0	
Propylene	ND	ug/m3	25.8	12.9	73.58		11/05/12 13:49	115-07-1	
Styrene	ND	ug/m3	64.0	31.9	73.58		11/05/12 13:49	100-42-5	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Sample: A-074922-101612-CM-03259-3 **Lab ID: 60131358002** Collected: 10/16/12 12:40 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	51.4	13.8	73.58		11/05/12 13:49	79-34-5	
Tetrachloroethene	ND	ug/m3	50.7	25.4	73.58		11/05/12 13:49	127-18-4	
Tetrahydrofuran	**1010**	ug/m3	44.1	22.1	73.58		11/05/12 13:49	109-99-9	
THC as Gas	**19300**	ug/m3	4470	2240	73.58		11/05/12 13:49		
Toluene	**3810**	ug/m3	56.7	28.2	73.58		11/05/12 13:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	111	55.6	73.58		11/05/12 13:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	81.7	40.8	73.58		11/05/12 13:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	40.5	20.4	73.58		11/05/12 13:49	79-00-5	
Trichloroethene	ND	ug/m3	40.5	20.1	73.58		11/05/12 13:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	83.9	16.3	73.58		11/05/12 13:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	118	58.9	73.58		11/05/12 13:49	76-13-1	
1,2,4-Trimethylbenzene	**137**	ug/m3	73.5	36.8	73.58		11/05/12 13:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	73.5	9.6	73.58		11/05/12 13:49	108-67-8	
Vinyl acetate	ND	ug/m3	52.7	26.3	73.58		11/05/12 13:49	108-05-4	
Vinyl chloride	ND	ug/m3	19.1	9.6	73.58		11/05/12 13:49	75-01-4	
m&p-Xylene	**216**	ug/m3	130	65.0	73.58		11/05/12 13:49	179601-23-1	
o-Xylene	**100**	ug/m3	64.8	9.4	73.58		11/05/12 13:49	95-47-6	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: AIR/16105
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60131358002

METHOD BLANK: 1325781
Matrix: Air
Associated Lab Samples: 60131358002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	11/05/12 11:53	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	11/05/12 11:53	
1,1,2-Trichloroethane	ug/m3	ND	0.55	11/05/12 11:53	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	11/05/12 11:53	
1,1-Dichloroethane	ug/m3	ND	0.82	11/05/12 11:53	
1,1-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	11/05/12 11:53	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	11/05/12 11:53	
1,2-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,2-Dichloroethane	ug/m3	ND	0.41	11/05/12 11:53	
1,2-Dichloropropane	ug/m3	ND	0.94	11/05/12 11:53	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,3-Butadiene	ug/m3	ND	0.45	11/05/12 11:53	
1,3-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,4-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
2-Butanone (MEK)	ug/m3	ND	0.60	11/05/12 11:53	
2-Hexanone	ug/m3	ND	0.83	11/05/12 11:53	
2-Propanol	ug/m3	ND	0.50	11/05/12 11:53	
4-Ethyltoluene	ug/m3	ND	1.0	11/05/12 11:53	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	11/05/12 11:53	
Acetone	ug/m3	ND	0.48	11/05/12 11:53	
Benzene	ug/m3	ND	0.32	11/05/12 11:53	
Benzyl chloride	ug/m3	ND	1.0	11/05/12 11:53	
Bromodichloromethane	ug/m3	ND	1.4	11/05/12 11:53	
Bromoform	ug/m3	ND	2.1	11/05/12 11:53	
Bromomethane	ug/m3	ND	0.79	11/05/12 11:53	
Carbon disulfide	ug/m3	ND	0.63	11/05/12 11:53	
Carbon tetrachloride	ug/m3	ND	0.64	11/05/12 11:53	
Chlorobenzene	ug/m3	ND	0.94	11/05/12 11:53	
Chloroethane	ug/m3	ND	0.54	11/05/12 11:53	
Chloroform	ug/m3	ND	0.99	11/05/12 11:53	
Chloromethane	ug/m3	ND	0.42	11/05/12 11:53	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Cyclohexane	ug/m3	ND	0.70	11/05/12 11:53	
Dibromochloromethane	ug/m3	ND	1.7	11/05/12 11:53	
Dichlorodifluoromethane	ug/m3	ND	1.0	11/05/12 11:53	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	11/05/12 11:53	
Ethanol	ug/m3	ND	0.38	11/05/12 11:53	
Ethyl acetate	ug/m3	ND	0.73	11/05/12 11:53	
Ethylbenzene	ug/m3	ND	0.88	11/05/12 11:53	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	11/05/12 11:53	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

METHOD BLANK: 1325781 Matrix: Air

Associated Lab Samples: 60131358002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	11/05/12 11:53	
Methyl-tert-butyl ether	ug/m3	ND	0.73	11/05/12 11:53	
Methylene Chloride	ug/m3	ND	0.71	11/05/12 11:53	
n-Heptane	ug/m3	ND	0.83	11/05/12 11:53	
n-Hexane	ug/m3	ND	0.72	11/05/12 11:53	
Naphthalene	ug/m3	ND	1.1	11/05/12 11:53	
o-Xylene	ug/m3	ND	0.88	11/05/12 11:53	
Propylene	ug/m3	ND	0.35	11/05/12 11:53	
Styrene	ug/m3	ND	0.87	11/05/12 11:53	
Tetrachloroethene	ug/m3	ND	0.69	11/05/12 11:53	
Tetrahydrofuran	ug/m3	ND	0.60	11/05/12 11:53	
THC as Gas	ug/m3	ND	60.8	11/05/12 11:53	
Toluene	ug/m3	ND	0.77	11/05/12 11:53	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Trichloroethene	ug/m3	ND	0.55	11/05/12 11:53	
Trichlorofluoromethane	ug/m3	ND	1.1	11/05/12 11:53	
Vinyl acetate	ug/m3	ND	0.72	11/05/12 11:53	
Vinyl chloride	ug/m3	ND	0.26	11/05/12 11:53	

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.0	115	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	53.6	97	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.2	104	65-132	
1,1-Dichloroethane	ug/m3	41.2	41.6	101	67-132	
1,1-Dichloroethene	ug/m3	40.3	40.1	99	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	82.3	109	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	48.7	97	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.7	106	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	67.3	110	71-132	
1,2-Dichloroethane	ug/m3	41.2	45.3	110	70-131	
1,2-Dichloropropane	ug/m3	47	53.3	113	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	47.2	94	70-133	
1,3-Butadiene	ug/m3	22.5	22.1	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	66.8	109	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	60.7	99	72-131	
2-Butanone (MEK)	ug/m3	30	29.2	97	69-131	
2-Hexanone	ug/m3	41.7	40.0	96	71-134	
2-Propanol	ug/m3	25	27.2	109	72-132	
4-Ethyltoluene	ug/m3	50	51.0	102	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.4	95	69-135	
Acetone	ug/m3	24.2	23.5	97	61-139	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	36.6	113	69-134	
Benzyl chloride	ug/m3	52.5	55.9	107	70-129	
Bromodichloromethane	ug/m3	68.2	78.4	115	71-130	
Bromoform	ug/m3	105	106	101	70-130	
Bromomethane	ug/m3	39.5	40.5	103	69-125	
Carbon disulfide	ug/m3	31.7	30.0	95	66-131	
Carbon tetrachloride	ug/m3	64	73.9	115	68-128	
Chlorobenzene	ug/m3	46.8	49.6	106	75-128	
Chloroethane	ug/m3	26.8	27.3	102	66-131	
Chloroform	ug/m3	49.7	55.4	112	68-132	
Chloromethane	ug/m3	21	20.4	97	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	42.2	105	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	45.3	98	74-134	
Cyclohexane	ug/m3	35	40.3	115	67-136	
Dibromochloromethane	ug/m3	86.6	88.1	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	51.7	103	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	72.4	102	66-130	
Ethanol	ug/m3	19.2	17.0	89	69-131	
Ethyl acetate	ug/m3	36.6	41.3	113	71-131	
Ethylbenzene	ug/m3	44.2	43.9	99	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	74.6	69	41-150	
m&p-Xylene	ug/m3	88.3	86.4	98	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	40.6	111	70-132	
Methylene Chloride	ug/m3	35.3	31.9	90	73-134	
n-Heptane	ug/m3	41.7	40.0	96	70-134	
n-Hexane	ug/m3	35.8	34.7	97	65-133	
Naphthalene	ug/m3	53.3	68.7	129	57-150	
o-Xylene	ug/m3	44.2	42.7	97	69-138	
Propylene	ug/m3	17.5	18.4	105	70-134	
Styrene	ug/m3	43.3	44.0	102	72-132	
Tetrachloroethene	ug/m3	69	81.1	118	70-130	
Tetrahydrofuran	ug/m3	30	29.3	98	74-128	
THC as Gas	ug/m3	3030	3190	105	66-131	
Toluene	ug/m3	38.3	37.8	99	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	43.1	107	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.5	99	73-130	
Trichloroethene	ug/m3	54.6	67.3	123	72-131	
Trichlorofluoromethane	ug/m3	57.1	57.4	100	66-129	
Vinyl acetate	ug/m3	35.8	32.5	91	71-131	
Vinyl chloride	ug/m3	26	26.6	102	70-131	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: GCV/4130
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60131358001

METHOD BLANK: 1084707
Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/22/12 11:53	
4-Bromofluorobenzene (S)	%	93	70-130	10/22/12 11:53	

LABORATORY CONTROL SAMPLE: 1084708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	1.2	124	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: MPRP/20061
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60131358001

METHOD BLANK: 1081811
Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/20/12 16:29	
Calcium, Dissolved	ug/L	ND	100	10/20/12 16:29	
Magnesium, Dissolved	ug/L	ND	50.0	10/25/12 14:32	
Potassium, Dissolved	ug/L	ND	500	10/25/12 14:32	
Sodium, Dissolved	ug/L	ND	500	10/25/12 14:32	

LABORATORY CONTROL SAMPLE: 1081812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	940	94	80-120	
Calcium, Dissolved	ug/L	10000	8960	90	80-120	
Magnesium, Dissolved	ug/L	10000	10000	100	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1081813 1081814

Parameter	Units	60131355001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	331	1000	1000	1310	1320	98	99	75-125	0	20	
Calcium, Dissolved	ug/L	379000	10000	10000	384000	385000	46	59	75-125	0	20	M1
Magnesium, Dissolved	ug/L	12300	10000	10000	21300	21500	91	93	75-125	1	20	
Potassium, Dissolved	ug/L	4560	10000	10000	15300	15800	107	112	75-125	3	20	
Sodium, Dissolved	ug/L	1750000	10000	10000	1770000	1790000	240	475	75-125	1	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: MSV/49450
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60131358001

METHOD BLANK: 1084742
Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1-Dichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1-Dichloroethene	ug/L	ND	1.0	10/23/12 02:50	
1,1-Dichloropropene	ug/L	ND	1.0	10/23/12 02:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/23/12 02:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/23/12 02:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichloropropane	ug/L	ND	1.0	10/23/12 02:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/23/12 02:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,3-Dichloropropane	ug/L	ND	1.0	10/23/12 02:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
2,2-Dichloropropane	ug/L	ND	1.0	10/23/12 02:50	
2-Butanone (MEK)	ug/L	ND	10.0	10/23/12 02:50	
2-Chlorotoluene	ug/L	ND	1.0	10/23/12 02:50	
2-Hexanone	ug/L	ND	10.0	10/23/12 02:50	
4-Chlorotoluene	ug/L	ND	1.0	10/23/12 02:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/23/12 02:50	
Acetone	ug/L	ND	10.0	10/23/12 02:50	
Benzene	ug/L	ND	1.0	10/23/12 02:50	
Bromobenzene	ug/L	ND	1.0	10/23/12 02:50	
Bromochloromethane	ug/L	ND	1.0	10/23/12 02:50	
Bromodichloromethane	ug/L	ND	1.0	10/23/12 02:50	
Bromoform	ug/L	ND	1.0	10/23/12 02:50	
Bromomethane	ug/L	ND	5.0	10/23/12 02:50	
Carbon disulfide	ug/L	ND	5.0	10/23/12 02:50	
Carbon tetrachloride	ug/L	ND	1.0	10/23/12 02:50	
Chlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
Chloroethane	ug/L	ND	1.0	10/23/12 02:50	
Chloroform	ug/L	ND	1.0	10/23/12 02:50	
Chloromethane	ug/L	ND	1.0	10/23/12 02:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/23/12 02:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/23/12 02:50	
Dibromochloromethane	ug/L	ND	1.0	10/23/12 02:50	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

METHOD BLANK: 1084742 Matrix: Water

Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	10/23/12 02:50	
Dichlorodifluoromethane	ug/L	ND	1.0	10/23/12 02:50	
Ethylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/23/12 02:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/23/12 02:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/23/12 02:50	
Methylene chloride	ug/L	ND	1.0	10/23/12 02:50	
n-Butylbenzene	ug/L	ND	1.0	10/23/12 02:50	
n-Propylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Naphthalene	ug/L	ND	10.0	10/23/12 02:50	
p-Isopropyltoluene	ug/L	ND	1.0	10/23/12 02:50	
sec-Butylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Styrene	ug/L	ND	1.0	10/23/12 02:50	
tert-Butylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Tetrachloroethene	ug/L	ND	1.0	10/23/12 02:50	
Toluene	ug/L	ND	1.0	10/23/12 02:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/23/12 02:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/23/12 02:50	
Trichloroethene	ug/L	ND	1.0	10/23/12 02:50	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/12 02:50	
Vinyl chloride	ug/L	ND	1.0	10/23/12 02:50	
Xylene (Total)	ug/L	ND	3.0	10/23/12 02:50	
1,2-Dichloroethane-d4 (S)	%	102	80-120	10/23/12 02:50	
4-Bromofluorobenzene (S)	%	99	80-120	10/23/12 02:50	
Dibromofluoromethane (S)	%	106	80-120	10/23/12 02:50	
Toluene-d8 (S)	%	97	80-120	10/23/12 02:50	

LABORATORY CONTROL SAMPLE: 1084743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	100	79-121	
1,1,1-Trichloroethane	ug/L	20	20.4	102	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	71-121	
1,1,2-Trichloroethane	ug/L	20	21.0	105	78-120	
1,1-Dichloroethane	ug/L	20	19.0	95	74-120	
1,1-Dichloroethene	ug/L	20	19.7	98	68-120	
1,1-Dichloropropene	ug/L	20	20.7	104	78-120	
1,2,3-Trichlorobenzene	ug/L	20	18.6	93	70-129	
1,2,3-Trichloropropane	ug/L	20	23.0	115	74-121	
1,2,4-Trichlorobenzene	ug/L	20	20.2	101	76-123	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	18.2	91	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	76-125	
1,2-Dichlorobenzene	ug/L	20	19.7	99	80-120	
1,2-Dichloroethane	ug/L	20	19.2	96	72-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

LABORATORY CONTROL SAMPLE: 1084743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.2	98	78-120	
1,2-Dichloropropane	ug/L	20	21.0	105	78-120	
1,3,5-Trimethylbenzene	ug/L	20	19.9	100	75-120	
1,3-Dichlorobenzene	ug/L	20	19.9	99	79-120	
1,3-Dichloropropane	ug/L	20	20.1	100	75-120	
1,4-Dichlorobenzene	ug/L	20	20.0	100	80-120	
2,2-Dichloropropane	ug/L	20	16.4	82	54-132	
2-Butanone (MEK)	ug/L	100	101	101	40-160	
2-Chlorotoluene	ug/L	20	19.3	96	78-120	
2-Hexanone	ug/L	100	101	101	40-160	
4-Chlorotoluene	ug/L	20	20.5	103	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	65-126	
Acetone	ug/L	100	93.2	93	40-160	
Benzene	ug/L	20	20.3	102	74-123	
Bromobenzene	ug/L	20	21.5	107	79-120	
Bromochloromethane	ug/L	20	21.7	109	75-120	
Bromodichloromethane	ug/L	20	19.3	97	74-120	
Bromoform	ug/L	20	18.6	93	70-123	
Bromomethane	ug/L	20	15.7	78	40-158	
Carbon disulfide	ug/L	20	18.7	94	67-135	
Carbon tetrachloride	ug/L	20	20.0	100	74-126	
Chlorobenzene	ug/L	20	21.1	106	80-120	
Chloroethane	ug/L	20	21.3	106	60-144	
Chloroform	ug/L	20	20.2	101	77-120	
Chloromethane	ug/L	20	18.0	90	40-142	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	70-120	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	73-121	
Dibromochloromethane	ug/L	20	19.4	97	77-122	
Dibromomethane	ug/L	20	21.3	106	76-120	
Dichlorodifluoromethane	ug/L	20	12.5	62	40-160	
Ethylbenzene	ug/L	20	21.0	105	76-123	
Hexachloro-1,3-butadiene	ug/L	20	19.0	95	72-124	
Isopropylbenzene (Cumene)	ug/L	20	22.0	110	80-126	
Methyl-tert-butyl ether	ug/L	20	21.5	108	67-125	
Methylene chloride	ug/L	20	20.0	100	72-127	
n-Butylbenzene	ug/L	20	19.3	96	76-125	
n-Propylbenzene	ug/L	20	18.3	91	77-120	
Naphthalene	ug/L	20	17.7	88	63-128	
p-Isopropyltoluene	ug/L	20	19.3	97	77-121	
sec-Butylbenzene	ug/L	20	20.5	102	77-122	
Styrene	ug/L	20	20.8	104	79-120	
tert-Butylbenzene	ug/L	20	20.0	100	75-124	
Tetrachloroethene	ug/L	20	19.9	99	78-121	
Toluene	ug/L	20	19.3	97	75-123	
trans-1,2-Dichloroethene	ug/L	20	19.1	95	80-129	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	77-122	
Trichloroethene	ug/L	20	20.3	101	74-120	
Trichlorofluoromethane	ug/L	20	20.1	100	69-122	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

LABORATORY CONTROL SAMPLE: 1084743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	20.4	102	50-140	
Xylene (Total)	ug/L	60	60.8	101	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			97	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1084744 1084745

Parameter	Units	60131493003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.1	19.8	90	99	62-135	9	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	21.2	104	106	62-146	2	32	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.4	20.9	97	104	59-131	7	29	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	20.0	92	100	63-129	9	34	
1,1-Dichloroethane	ug/L	ND	20	20	19.9	19.5	100	98	61-132	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	23.5	22.9	117	115	51-140	2	31	
1,1-Dichloropropene	ug/L	ND	20	20	21.3	22.3	106	111	59-145	5	34	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.4	19.4	77	97	51-138	23	44	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	22.9	99	114	61-129	15	31	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.9	21.0	95	105	54-136	11	34	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.6	20.2	98	101	46-141	3	32	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.9	20.4	85	102	53-133	19	32	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	21.2	98	106	58-138	8	37	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.9	19.6	94	98	62-130	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.8	96	94	52-146	2	35	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	41.9	41.4	105	103	53-150	1	31	
1,2-Dichloropropane	ug/L	ND	20	20	20.4	19.9	102	99	64-133	2	31	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	20.1	98	100	45-142	2	43	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.1	20.7	96	103	58-130	8	31	
1,3-Dichloropropane	ug/L	ND	20	20	18.6	21.0	93	105	62-124	12	31	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.3	19.8	96	99	60-132	3	32	
2,2-Dichloropropane	ug/L	ND	20	20	14.3	14.5	71	72	40-150	2	31	
2-Butanone (MEK)	ug/L	ND	100	100	89.9	88.4	90	88	40-138	2	34	
2-Chlorotoluene	ug/L	ND	20	20	19.3	19.9	96	99	61-130	3	31	
2-Hexanone	ug/L	ND	100	100	94.8	98.0	95	98	40-130	3	33	
4-Chlorotoluene	ug/L	ND	20	20	20.2	21.2	101	106	61-132	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	95.8	89.1	96	89	57-128	7	35	
Acetone	ug/L	ND	100	100	91.3	99.3	91	99	40-151	8	35	
Benzene	ug/L	ND	20	20	20.1	20.6	101	103	40-155	2	45	
Bromobenzene	ug/L	ND	20	20	20.3	20.5	102	103	63-130	1	30	
Bromochloromethane	ug/L	ND	20	20	19.5	23.2	98	116	63-132	17	30	
Bromodichloromethane	ug/L	ND	20	20	19.0	18.1	95	91	58-133	5	29	
Bromoform	ug/L	ND	20	20	17.1	16.9	85	84	56-132	1	29	
Bromomethane	ug/L	ND	20	20	14.2	19.4	71	97	40-157	31	43	
Carbon disulfide	ug/L	ND	20	20	20.8	21.8	104	109	55-153	5	32	
Carbon tetrachloride	ug/L	ND	20	20	21.0	22.0	105	110	60-154	4	34	

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(913)599-5665

QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1084744 1084745

Parameter	Units	60131493003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	19.8	21.2	99	106	54-141	7	31	
Chloroethane	ug/L	ND	20	20	29.9	25.7	150	129	48-160	15	23	
Chloroform	ug/L	ND	20	20	20.0	20.0	100	100	59-138	0	29	
Chloromethane	ug/L	ND	20	20	21.3	19.6	106	98	40-160	8	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	20.2	106	101	46-144	5	34	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	18.1	92	91	60-130	2	32	
Dibromochloromethane	ug/L	ND	20	20	18.2	19.7	91	98	60-135	8	31	
Dibromomethane	ug/L	ND	20	20	21.0	20.3	105	101	64-131	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	14.2	14.7	71	73	40-156	4	40	
Ethylbenzene	ug/L	ND	20	20	20.1	21.5	101	108	40-158	7	48	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.5	19.5	87	97	47-144	11	41	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.9	22.8	104	114	51-156	9	33	
Methyl-tert-butyl ether	ug/L	0.27J	20	20	20.7	20.6	102	102	40-147	0	47	
Methylene chloride	ug/L	ND	20	20	20.2	20.3	101	102	60-137	1	28	
n-Butylbenzene	ug/L	ND	20	20	18.8	20.5	94	102	52-144	9	38	
n-Propylbenzene	ug/L	ND	20	20	18.9	20.2	95	101	55-139	6	34	
Naphthalene	ug/L	ND	20	20	17.6	20.2	88	101	40-149	13	39	
p-Isopropyltoluene	ug/L	ND	20	20	18.7	19.5	94	97	49-143	4	35	
sec-Butylbenzene	ug/L	ND	20	20	19.8	21.3	99	106	54-143	7	36	
Styrene	ug/L	ND	20	20	19.2	20.7	96	104	50-136	7	34	
tert-Butylbenzene	ug/L	ND	20	20	20.0	20.9	100	104	56-142	4	37	
Tetrachloroethene	ug/L	ND	20	20	19.6	21.4	98	107	54-152	9	35	
Toluene	ug/L	ND	20	20	19.3	20.3	96	102	42-151	5	46	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.6	21.2	103	106	66-152	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.9	20.1	90	100	60-133	11	32	
Trichloroethene	ug/L	ND	20	20	20.6	21.0	103	105	51-146	2	34	
Trichlorofluoromethane	ug/L	ND	20	20	22.7	23.0	114	115	55-146	1	34	
Vinyl chloride	ug/L	ND	20	20	23.3	23.5	116	117	40-160	1	30	
Xylene (Total)	ug/L	ND	60	60	58.1	62.7	97	105	40-151	8	45	
1,2-Dichloroethane-d4 (S)	%						105	102	80-120			
4-Bromofluorobenzene (S)	%						100	100	80-120			
Dibromofluoromethane (S)	%						101	98	80-120			
Toluene-d8 (S)	%						100	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: OEXT/35576
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60131358001

METHOD BLANK: 1082593
Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/19/12 18:10	
n-Tetracosane (S)	%	58	35-120	10/19/12 18:10	
p-Terphenyl (S)	%	55	35-121	10/19/12 18:10	

LABORATORY CONTROL SAMPLE: 1082594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	25	16.2	65	56-120	
n-Tetracosane (S)	%			58	35-120	
p-Terphenyl (S)	%			59	35-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1082595 1082596

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/L	ND	25	25	16.8	18.0	67	72	56-122	7	29	
n-Tetracosane (S)	%						65	68	35-120			
p-Terphenyl (S)	%						64	68	35-121			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: WET/37819 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60131358001

METHOD BLANK: 1084946 Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/23/12 08:31	

LABORATORY CONTROL SAMPLE: 1084947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 1084948

Parameter	Units	60131705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	109	112	2	9	

SAMPLE DUPLICATE: 1084949

Parameter	Units	60131659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	166	172	3	9	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: WET/37772
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60131358001

METHOD BLANK: 1082802
Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/19/12 11:01	

SAMPLE DUPLICATE: 1082803

Parameter	Units	60131335006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	172	172	0	17	

SAMPLE DUPLICATE: 1082804

Parameter	Units	60131411004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	412	413	0	17	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: WET/37837
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60131358001

METHOD BLANK: 1085237 Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/23/12 19:09	

LABORATORY CONTROL SAMPLE: 1085238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 1085239

Parameter	Units	60131463001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	98	75-125	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

QC Batch: WETA/22188
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60131358001

METHOD BLANK: 1085817 Matrix: Water
Associated Lab Samples: 60131358001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	10/24/12 15:16	
Chloride	mg/L	ND	1.0	10/24/12 15:16	
Sulfate	mg/L	ND	1.0	10/24/12 15:16	

LABORATORY CONTROL SAMPLE: 1085818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	99	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE SAMPLE: 1085819

Parameter	Units	60131349001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	50	50.0	100	75-119	
Chloride	mg/L	6.6J	50	49.4	86	64-118	
Sulfate	mg/L	43.7	50	89.0	91	61-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1085820 1085821

Parameter	Units	60131355001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	2.4	5	5	4.8	5.0	48	51	75-119	3	10	M1
Chloride	mg/L	319	125	125	430	434	89	92	64-118	1	12	
Sulfate	mg/L	5290	2500	2500	7500	7480	88	87	61-119	0	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCV/4130

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074922 AREA 6 03259-3
Pace Project No.: 60131358

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60131358002	**A-074922-101612-CM-03259-3**	TO-15	AIR/16105		
60131358001	**GW-074922-101612-CM-03259-3**	EPA 3510C	OEXT/35576	EPA 8015B	GCSV/13379
60131358001	**GW-074922-101612-CM-03259-3**	EPA 5030B/8015B	GCV/4130		
60131358001	**GW-074922-101612-CM-03259-3**	EPA 3010	MPRP/20061	EPA 6010	ICP/16452
60131358001	**GW-074922-101612-CM-03259-3**	EPA 5030B/8260	MSV/49450		
60131358001	**GW-074922-101612-CM-03259-3**	SM 2320B	WET/37819		
60131358001	**GW-074922-101612-CM-03259-3**	SM 2540C	WET/37772		
60131358001	**GW-074922-101612-CM-03259-3**	SM 4500-S-2 D	WET/37837		
60131358001	**GW-074922-101612-CM-03259-3**	EPA 300.0	WETA/22188		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 312016 Job Number: 19559

Submitter Sample Name: GW-074922-101612-CM-03259-3

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan Basin, NM

Depth/Formation:

Container Type: IsoBag

Sample Collected: 10/16/2012 Results Reported: 11/13/2012

δD of water	----------	-111.8 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-14.86 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks: Nitrates not analyzed for isotopes due to insufficient concentration.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #:	313505	Job #:	19649
Sample Name/Number:	GW-074922-101612-CM-03259-3		
Company:	Pace Analytical		
Date Sampled:	10/16/2012		
Container:	IsoBag		
Field/Site Name:	074922 - Area 6		
Location:	San Juan Basin, NM		
Formation/Depth:			
Sampling Point:			
Date Received:	10/26/2012	Date Reported:	10/30/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	na			
Hydrogen	nd			
Argon	1.32			
Oxygen	25.12			
Nitrogen	64.33			
Carbon Dioxide	4.84			
Methane	4.37			
Ethane	0.0207			
Ethylene	0.0005			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
Concentration of methane in water = 1.1 cc/L ; 0.75 ppm
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 313511 Job #: 19650
Sample Name: A-074922-101612-CM-03259-3 Co. Lab#:
Company: Pace Analytical
Date Sampled: 10/16/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location:
Formation/Depth:
Sampling Point:
Date Received: 10/26/2012 Date Reported: 11/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	nd			
Hydrogen	nd			
Argon	0.950			
Oxygen	21.34			
Nitrogen	77.59			-0.6
Carbon Dioxide	0.064			
Methane	0.0586			
Ethane	0.0004			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 1
Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

AirTECHNOLOGY
Laboratories, Inc.

October 31, 2012

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Pace Analytical
ATTN: Alice Flanagan
9608 Loiret Blvd.
Lenexa, KS 66219

LABORATORY TEST RESULTS

Project Reference: 60131358; 074922 Area 6 03259-3
Lab Number: D102201-01

Enclosed are results for sample(s) received 10/22/12 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Chain of Custody

D102201-01

Pace Analytical
www.pacelabs.com

Workorder: 60131358 **Workorder Name:** 074922 AREA 6 03259-3 **Results Requested** 10/31/2012

Report / Invoice To	Subcontract To
Alice Flanagan Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Email: alice.flanagan@pacelabs.com	P.O. SUB-6519

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Acetylene ASTM D1946	Requested Analysis: Hydrogen sulfide EPA 15/16	LAB USE ONLY
1	A-074922-101612-CM-03259-3	10/16/2012 12:40	60131358002	Air	1	X	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	10/23/12 15:30
2				
3				

Comments

Cooler Temperature on Receipt °C Custody Seal Y or N Received on Ice Y or N Samples Intact Y or N

Pace Package 40 of 49

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 03259-3
Project No.: 60131358
Date Received: 10/22/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D102201-01							
Client Sample I.D.:	A-074922-101612-CM-03259-3 / 60131358002							
Date Sampled:	10/16/12							
Date Analyzed:	10/22/12							
QC Batch No.:	121022GC3A1							
Analyst Initials:	VM							
Dilution Factor:	2.2							
ANALYTE	**Result ppmv**	**RL ppmv**						
Hydrogen Sulfide	ND	0.44						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 10/29/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 121022GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/22/12		10/22/12		10/22/12			
Analyst Initials:	VM		VM		VM			
Datafile:	22OCT003		22OCT001		22OCT002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	83	70-130%	84	70-130%	1.6	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 10/29/12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 03259-3
Project No.: 60131358
Date Received: 10/22/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**D102201-01**							
Client Sample I.D.:	**A-074922-101612-CM-03259-3 / 60131358002**							
Date Sampled:	**10/16/12**							
Date Analyzed:	**10/25/12**							
QC Batch No.:	**121025GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**2.2**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Acetylene	ND	0.0022						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 10/31/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 121025GC8A1
Matrix: Air
Units: ppmv

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/25/12		10/25/12		10/25/12			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	25oct004		25oct001		25oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Acetylene	ND	10.0	92	70-130%	90	70-130%	2.6	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 10-30-12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

SUB-6519

60131358

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

TURNAROUND TIME
Standard ☒ 48 hours ☐
Same Day ☐ 72 hours ☐
24 hours ☐ 96 hours ☐
Other:

DELIVERABLES
EDD ☐
EDF ☐
LEVEL 3 ☐
LEVEL 4 ☐

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.: 074922
Project Name: Area 6
Report To: Christine Mathews
Company: CRA
Street: 6121 Indian School NE #200
City/State/Zip: Albuquerque, NM 87110
Phone& Fax: 505.884.0672
e-mail: cmathews@CRAworld.com

BILLING
P.O. No.:
Bill to: Alice Flanagan
Pace Lenexa

ANALYSIS REQUEST
ASTM D1946 Acetylene
EPA 15/16 Hydrogen Sulfide

Lab ID
60131358002

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	ASTM D1946 Acetylene	EPA 15/16 Hydrogen Sulfide				
D102201-01	A-074922-101612-CM-03259-3	10/16/12	1240	Air 1	silco	X	X				

AUTHORIZATION TO PERFORM WORK	COMPANY CRA	1600	DATE/TIME 10/19/12
SAMPLED BY Christine Mathews	COMPANY CRA	1240 ~~10/19/12~~	DATE/TIME 10/16/12
RELINQUISHED BY	DATE/TIME 10/19/12 1530	RECEIVED BY	DATE/TIME
RELINQUISHED BY FED EX	DATE/TIME 10/22/12 1245	RECEIVED BY Don Thorsen	DATE/TIME 10/22/12 1245
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

COMMENTS
* Please report each chain seperately and send to Alice Flanagan of Pace Lenexa

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

60131358

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Send Data and Invoice to

Name: Christie Mathews
Company: CRA
Address: 6121 Indian School Rd #200 Albuquerque, NM 87111
Phone: 505-884-0672
Fax:
Email: CMathews@craworld.com

Project: 074922
Location: San Juan Basin, NM
Sampled by: CM, JP, SF

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Oxygen, Hydrogen, Nitrogen Isotopes	Dissolved Methane Isotopes	
	GW-074922-101612-CM-03254-3	10/16/12	X	X	

Isobugs
&
water bottles

Notes: Please report to Alice Flanagan @ Pace Analytical

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by		CRA	10.16.12	1530
Received by		Isotech	10/17/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

040

ISOTECH
ISOTECH LABORATORIES INC
1308 Parkland Court Champaign, IL 61821 • (877) 362-4190 • www.isotechlabs.com

60131358

Send Data and Invoice to

Name: Christine Matthews
Company: CRA
Address: 6121 Indian School #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMathews@craworld.com

Project: 074922 Area 6
Purchase Order #:
Location: San Juan Basin, NM
Sampled By: Christine Matthews
Circle one: (Standard) Priority Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analysis Requested: Mass Spec			Comments
	A-074922-101612-CM-03259-3	10/6-12	1240	X			please analyze for carbon/hydrogen isotopes C1 and C2, Nitrogen isotopes, Hydrocarbons/Fixed gases, Specific gravity, BTU/cu ft.

Cali-5 bags

Chain-of-Cust

	Si		Date	Time
Relinquished by			10.22.12	1600
Received by	Kris Caleb	Isotech	10/23/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
1380G Plaza Office Building
315 Johnstone Avenue
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

Ms. Lynn Robbins
2604 NM 511
Navajo Dam, NM 87419

February 18, 2013

Re: Water Well Sample Analytical Results

Dear Ms. Robbins:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on October 17 and October 19, 2012, from the two water wells on your property located in the vicinity of 2604 NM 511 in San Juan County, New Mexico. Summary tables are included along with the laboratory reports. The sample identification numbers match the numbers on file with the New Mexico State Engineer's Office for each well. SJ 03823P1 is the well to the north and SJ 02992 (not in use) is to the south. The summary tables for water results depict New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your wells for the October 2012 sampling event as well as the prior May 2012 and December 2011 sampling events (Well 02992 was not sampled in December 2011). Note that Well 03823P1 did not have any exceedances of established NMWQCC standards while Well 02992 exceeded the respective standards for total dissolved solids and sulfate. This is typical of water wells in the region.

As you know, ConocoPhillips initially contacted you late last year, seeking permission to sample your well in response to methane and hydrogen sulfide found in a vicinity water well. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the possible source(s) for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that methane was detected at a very low concentration of 2.7 micrograms per liter (µg/L) in a water sample from Well 03823P1 during the October 2012 sampling. Methane was also detected at a similarly low concentration of 150 µg/L in a water sample obtained from Well 02992 during the October 2012 sampling. This is within the range of expected variability when compared to concentrations of methane measured in water samples from your wells during prior sampling events. The variability is possibly the result of seasonal water table fluctuations.

As with the prior sample analytical results, ConocoPhillips consulted a groundwater expert on characterization of the methane found in the water sample from your well. Upon scrutiny of various chemical isotopes, helium concentration, mole ratios, and gas wetness, the expert concluded that the methane does not bear any resemblance to the commercially produced methane in the area, which is sourced from the Mesaverde and Fruitland Coal Formations. The

methane is therefore considered to be naturally occurring -- likely a product of shallow coal seams or organic-rich shales.

Due to the nature of the analytical results from the sampling of your water wells to-date, ConocoPhillips does not plan to conduct any further sampling of those wells. The results of the October 2012 sampling event for your water wells have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

ANALYTICAL RESULTS SUMMARY
MAY 2012 - OCTOBER 2012
03897P1 - OLGUIN

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	1,2,3-Trichlorobenzene (µg/L)	1,2,4-Trichlorobenzene (µg/L)	Hexachloro-1,3-butadiene (ug/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03897P1	GW-074922-052212-CM-03897P1-1	05/22/2012	327	NA	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	365	361,000	11,600	6,090	2,160,000	82.0	7,800	< 0.050	< 1.0	317	5,210
	GW-074922-101612-CM-03897P1-2	10/16/2012	13***	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	331	379,000	12,300	4,560	1,750,000	73.5	7,860	< 0.050	2.4	319	5,290
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	NE	NE	NE	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03897P1	GW-074922-052212-CM-03897P1-1	05/22/2012	-109.5	-14.20
	GW-074922-101612-CM-03897P1-2	10/16/2012	-110.2	-14.30

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen Chemical mol. %	Nitrogen $\delta^{15}N$‰	Carbon Dioxide Chemical mol. %	Carbon Dioxide $\delta^{13}C$‰	Carbon Dioxide δD‰	Methane Chemical mol. %	Methane $\delta^{13}C$‰	Methane δD‰	Ethane Chemical mol. %	Ethane $\delta^{13}C$‰	Ethane δD‰	Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
03897P1	–	05/22/2012	Inaccessible																							
	–	10/16/2012	Inaccessible																							

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03897P1	–	05/22/2012	Inaccessible	
	–	10/16/2012	Inaccessible	

Notes:
1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3.ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume
10. **** = Data obtained from Isobag

There is no EPA-approved method for analysis of methane in the headspace of groundwater samples. Prior to October 2012, analysis of dissolved gases in groundwater samples from this location utilized Method RSK 175. This method requires collection of a groundwater sample in a glass vial with a screw-on cap. Therefore, the sample has the potential for exposure to ambient air during collection. Beginning in October 2012, IsoBags® have been utilized to collect groundwater samples from this location. An IsoBag eliminates exposure of the sample to ambient air thus preventing the potential loss of dissolved gases prior to analysis.

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - OCTOBER 2012
03823P1 - ROBINS, LYNN

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	1,2,3-Trichlorobenzene (µg/L)	1,2,4-Trichlorobenzene (µg/L)	Hexachloro-1,3-butadiene (ug/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03823P1	DW-074922-120111-CM-D3	12/01/2011	< 10.0	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	10,600	3,160	1,650	169,000	242	800	< 1.0	< 1.0	5.6	396
	GW-074922-052412-CM-03823P1-2	05/24/2012	148	NA	< 0.59	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	94,600	2,990	1,660	167,000	236	796	< 0.050	< 1.0	5.9	403
	GW-074922-101712-CM-03823P1-3	10/17/2012	2.7***	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	110,000	3,070	2,080	168,000	225	660	< 0.050	< 1.0	5.6	435
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	NE	NE	NE	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03823P1	DW-074922-120111-CM-D3	12/01/2011	-114.6	-14.75
	GW-074922-052412-CM-03823P1-2	05/24/2012	-111.8	-14.65
	GW-074922-101712-CM-03823P1-3	10/17/2012	-113.3	-14.96

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen		Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
							Chemical mol. %	$\delta^{15}N$‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰										
03823P1	A-074922-120211-CM-D3	12/02/2011	--	--	0.946	20.04	78.51	--	0.50	--	--	0.0031	--	--	0.0003	--	--	0.0002	--	0.0001	0.0002	0.0001	0.0002		0	1.001
	A-074922-052412-CM-03823P1-2	05/24/2012	0.0017	--	0.980	21.78	77.12	--	0.12	--	--	0.0003	--	--	--	--	--	--	--	--	--	--	--	--	0	1.002
	A-074922-101712-CM-03823P1-3	10/17/2012	nd	nd	0.959	19.10	79.17	-0.3	0.77	-19.12	--	0.0002	--	--	nd	--	--	nd	nd	nd	nd	nd	nd	nd	0	1.002

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03823P1	A-074922-120211-CM-D3	12/02/2011	< 0.20	**
	A-074922-052412-CM-03823P1-2	05/24/2012	< 0.41	< 0.0021
	A-074922-101712-CM-03823P1-3	10/17/2012	< 0.44	< 0.0022

ANALYTICAL RESULTS SUMMARY
MAY 2012 - OCTOBER 2012
02992 - ROBINS, HARVEY

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	1,2,3-Trichlorobenzene (µg/L)	1,2,4-Trichlorobenzene (µg/L)	Hexachloro-1,3-butadiene (ug/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
02992	GW-074922-052412-CM-02992-1	05/24/2012	567	NA	< 0.50	< 50.0	< 5.0	< 5.0	< 5.0	< 15.0	< 50.0	< 5.0	6.6	< 5.0	< 5.0	< 5.0	< 100	221,000	10,700	2,360	180,000	254	1,420	< 0.050	< 1.0	7.4	832
	GW-074922-101712-CM-02992-2	10/19/2012	150***	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	237,000	10,300	2,840	176,000	227	1,450	< 0.050	< 1.0	7.3	771
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	NE	NE	NE	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
02992	GW-074922-052412-CM-02992-1	05/24/2012	-102.9	-13.49
	GW-074922-101912-CM-02992-2	10/19/2012	-102.8	-13.61

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen		Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
							Chemical mol. %	$\delta^{15}N$‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰	Chemical mol. %	$\delta^{13}C$‰	δD‰									
02992	A-074922-052412-CM-02992-1	05/24/2012	0.0023	--	0.987	21.59	77.30	--	0.12	--	--	0.0017	--	--	--	--	--	--	--	--	--	--	--	--	0	1.002
	A-074922-101912-CM-02992-2	10/19/2012	nd	nd	0.933	20.13	78.79	-0.4	0.14	--	--	0.0034	--	--	nd	--	--	nd	nd	nd	nd	nd	nd	nd	0	1.000

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
02992	A-074922-052412-CM-02992-1	05/24/2012	< 0.44	< 0.0031
	A-074922-101812-CM-02992-2	10/18/2012	< 0.44	< 10

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - OCTOBER 2012
03823P1 - ROBINS, LYNN

AIR TO-15 RESULTS			
Well ID→	03823P1		
Sample ID→	A-074922-120211-CM-D3	A-074922-052412-CM-03823P1-2	A-074922-101712-CM-03823P1-3
Date→	12/02/2011	05/24/2012	10/17/2012
Constituents ↓	Results in ug/m3		
Acetone	15.0	201	52.4
Benzene	< 0.52	< 3.3	< 1.1
Bromodichloromethane	< 2.3	< 6.9	< 4.5
Bromomethane	< 1.3	< 4.0	< 2.6
2-Butanone	15.0	212	71.1
Carbon disulfide	< 1.0	< 3.2	28.0
Carbon tetrachloride	< 1.0	< 6.5	< 2.1
Chloroethane	< 0.87	< 2.7	< 1.8
Chloroform	16.8	37.9	8.7
Chloromethane	< 0.68	< 2.1	< 1.4
Cyclohexane	8.8	5.1	4.5
Dichlorodifluoromethane	1.7	< 5.1	< 3.3
1,4-Dichlorobenzene	< 1.9	< 6.2	< 4.0
1,2 - Dichloroethane	< 0.66	< 4.2	< 1.4
1,1 - Dichloroethene	< 1.3	< 4.1	< 2.7
cis - 1,2 - Dichloroethene	< 1.3	< 4.1	< 2.7
trans - 1,2 - Dichloroethene	< 1.3	< 4.1	< 2.7
trans - 1,3 - Dichloropropene	< 1.5	< 4.7	< 3.0
Dichlorotetrafluorethane	< 2.3	< 7.2	< 4.7
Ethanol	< 3.1	30.3	19.9
Ethylbenzene	< 1.4	< 4.5	7.4
4 -Ethyltoluene	< 4.0	< 5.0	6.2
n-Heptane	< 1.3	6.0	6.0
2-Hexanon	< 1.3	< 4.2	7.9
Hexachloro-1,3-butadiene	< 3.5	< 10.9	< 7.3
n-Hexane	3.5	< 3.6	< 2.4
Methylene Chloride	1.5	< 3.6	3.1
4-methyl-2-pentanone	2.9	7.2	5.4
Naphthalene	< 4.3	< 5.4	5.2
2-propanol	< 4.0	7.6	< 1.6
Styrene	< 1.4	4.9	4.8
1,1,2,2-Tetrachloroethane	< 1.1	< 7.0	< 2.3
Tetrahydrofuran	482	230	84.5
Toluene	112	107	36.4
1,2,4-Trichlorobenzene	< 1.6	< 7.6	< 5.0
1,1,2-Trichloroethane	< 0.89	< 5.6	< 1.8
Trichloroethene	< 0.89	< 5.5	< 1.8
Trichlorofluoromethane	< 1.8	< 5.8	< 3.8
1,1,2-Trichlorotrifluoroethane	< 2.6	< 7.9	< 5.3
1,2,4-Trimethylbenzene	< 1.6	< 5.0	12.1
1,3,5-Trimethylbenzene	< 1.6	< 5.0	8.8
Vinyl Chloride	< 0.42	< 2.6	< 0.86
THC as Gas	2,590	11,500	6230
Xylenes	< 4.2	12.6	38.3

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume
10. ** = Sample volume was lost during transport to Air Technologies Laboratory
11. **** = Data obtained from Isobag

There is no EPA-approved method for analysis of methane in the headspace of groundwater samples. Prior to October 2012, analysis of dissolved gases in groundwater samples from this location utilized Method RSK 175. This method requires collection of a groundwater sample in a glass vial with a screw-on cap. Therefore, the sample has the potential for exposure to ambient air during collection. Beginning in October 2012, IsoBags® have been utilized to collect groundwater samples from this location. An IsoBag eliminates exposure of the sample to ambient air thus preventing the potential loss of dissolved gases prior to analysis.

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November 06, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between October 18, 2012 and October 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60131464001	GW-074922-101712-CM-03823PI-3	Water	10/17/12 12:50	10/18/12 08:30
60131464002	A-074922-101712-CM-03823P1-3	Air	10/17/12 13:35	10/22/12 12:45

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SAMPLE ANALYTE COUNT

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 8015B	NAW	3	PASI-K
		EPA 5030B/8015B	SDR	3	PASI-K
		EPA 6010	SMW	5	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		SM 2320B	DJR	1	PASI-K
		SM 2540C	FJF	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	AJM	3	PASI-K
60131464002	**A-074922-101712-CM-03823P1-3**	TO-15	CJR	62	PASI-M

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **TO-15**
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/4130

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/20163

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131463001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1086310)
  - Sodium, Dissolved
- MSD (Lab ID: 1086311)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/49499

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

660

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PROJECT NARRATIVE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Sample: GW-074922-101712-CM-03823PI-3 **Lab ID: 60131464001** Collected: 10/17/12 12:50 Received: 10/18/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.16	1	10/19/12 00:00	10/19/12 21:03		
Surrogates									
p-Terphenyl (S)	69	%	35-121		1	10/19/12 00:00	10/19/12 21:03	92-94-4	
n-Tetracosane (S)	70	%	35-120		1	10/19/12 00:00	10/19/12 21:03	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	ND	mg/L	0.50	0.12	1		10/22/12 19:52		
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/22/12 19:52	460-00-4	
Preservation pH	**1.0**				1		10/22/12 19:52		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	ND	ug/L	100	1.8	1	10/24/12 17:00	10/27/12 13:35	7440-42-8	
Calcium, Dissolved	**110000**	ug/L	100	35.8	1	10/24/12 17:00	10/27/12 13:35	7440-70-2	
Magnesium, Dissolved	**3070**	ug/L	50.0	17.2	1	10/24/12 17:00	10/27/12 13:35	7439-95-4	
Potassium, Dissolved	**2080**	ug/L	500	64.1	1	10/24/12 17:00	10/27/12 13:35	7440-09-7	
Sodium, Dissolved	**168000**	ug/L	500	40.1	1	10/24/12 17:00	10/27/12 13:35	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.1	1		10/24/12 14:35	67-64-1	
Benzene	ND	ug/L	1.0	0.098	1		10/24/12 14:35	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.14	1		10/24/12 14:35	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.35	1		10/24/12 14:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.13	1		10/24/12 14:35	75-27-4	
Bromoform	ND	ug/L	1.0	0.13	1		10/24/12 14:35	75-25-2	
Bromomethane	ND	ug/L	5.0	0.17	1		10/24/12 14:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	3.2	1		10/24/12 14:35	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.047	1		10/24/12 14:35	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.075	1		10/24/12 14:35	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.46	1		10/24/12 14:35	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.060	1		10/24/12 14:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.097	1		10/24/12 14:35	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		10/24/12 14:35	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		10/24/12 14:35	75-00-3	
Chloroform	ND	ug/L	1.0	0.13	1		10/24/12 14:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.076	1		10/24/12 14:35	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.062	1		10/24/12 14:35	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		10/24/12 14:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.80	1		10/24/12 14:35	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.18	1		10/24/12 14:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.18	1		10/24/12 14:35	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/24/12 14:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.15	1		10/24/12 14:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.18	1		10/24/12 14:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.092	1		10/24/12 14:35	106-46-7	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Sample: GW-074922-101712-CM-03823PI-3 **Lab ID: 60131464001** Collected: 10/17/12 12:50 Received: 10/18/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.097	1		10/24/12 14:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.18	1		10/24/12 14:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/24/12 14:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.31	1		10/24/12 14:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.18	1		10/24/12 14:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		10/24/12 14:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		10/24/12 14:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		10/24/12 14:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		10/24/12 14:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.38	1		10/24/12 14:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.049	1		10/24/12 14:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.079	1		10/24/12 14:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/24/12 14:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/24/12 14:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.22	1		10/24/12 14:35	87-68-3	
2-Hexanone	ND	ug/L	10.0	2.4	1		10/24/12 14:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		10/24/12 14:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.11	1		10/24/12 14:35	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.24	1		10/24/12 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.46	1		10/24/12 14:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.083	1		10/24/12 14:35	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.11	1		10/24/12 14:35	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.088	1		10/24/12 14:35	103-65-1	
Styrene	ND	ug/L	1.0	0.14	1		10/24/12 14:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.21	1		10/24/12 14:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.086	1		10/24/12 14:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.13	1		10/24/12 14:35	127-18-4	
Toluene	ND	ug/L	1.0	0.15	1		10/24/12 14:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.22	1		10/24/12 14:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.12	1		10/24/12 14:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.071	1		10/24/12 14:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		10/24/12 14:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.12	1		10/24/12 14:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.067	1		10/24/12 14:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.32	1		10/24/12 14:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.068	1		10/24/12 14:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.076	1		10/24/12 14:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.12	1		10/24/12 14:35	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/24/12 14:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	80-120		1		10/24/12 14:35	460-00-4	
Dibromofluoromethane (S)	100	%	80-120		1		10/24/12 14:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		10/24/12 14:35	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		10/24/12 14:35	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/24/12 14:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Sample: GW-074922-101712-CM-03823PI-3 **Lab ID: 60131464001** Collected: 10/17/12 12:50 Received: 10/18/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**225**	mg/L	20.0	1.2	1		10/24/12 11:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**660**	mg/L	5.0	5.0	1		10/23/12 09:32		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		10/23/12 19:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.078	1		10/30/12 03:59	24959-67-9	
Chloride	**5.6**	mg/L	1.0	0.50	1		10/30/12 03:59	16887-00-6	
Sulfate	**435**	mg/L	25.0	3.0	25		10/30/12 04:17	14808-79-8	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Sample: A-074922-101712-CM-03823P1-3 **Lab ID: 60131464002** Collected: 10/17/12 13:35 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.4**	ug/m3	1.6	0.80	3.3		11/05/12 12:51	67-64-1	
Benzene	ND	ug/m3	1.1	0.54	3.3		11/05/12 12:51	71-43-2	
Benzyl chloride	ND	ug/m3	3.5	1.7	3.3		11/05/12 12:51	100-44-7	
Bromodichloromethane	ND	ug/m3	4.5	0.58	3.3		11/05/12 12:51	75-27-4	
Bromoform	ND	ug/m3	6.9	3.5	3.3		11/05/12 12:51	75-25-2	
Bromomethane	ND	ug/m3	2.6	0.60	3.3		11/05/12 12:51	74-83-9	
1,3-Butadiene	ND	ug/m3	1.5	0.74	3.3		11/05/12 12:51	106-99-0	
2-Butanone (MEK)	**71.1**	ug/m3	2.0	0.51	3.3		11/05/12 12:51	78-93-3	
Carbon disulfide	**28.0**	ug/m3	2.1	1.0	3.3		11/05/12 12:51	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.1	1.1	3.3		11/05/12 12:51	56-23-5	
Chlorobenzene	ND	ug/m3	3.1	1.5	3.3		11/05/12 12:51	108-90-7	
Chloroethane	ND	ug/m3	1.8	0.89	3.3		11/05/12 12:51	75-00-3	
Chloroform	**8.7**	ug/m3	3.3	1.6	3.3		11/05/12 12:51	67-66-3	
Chloromethane	ND	ug/m3	1.4	0.69	3.3		11/05/12 12:51	74-87-3	
Cyclohexane	**4.5**	ug/m3	2.3	1.2	3.3		11/05/12 12:51	110-82-7	
Dibromochloromethane	ND	ug/m3	5.7	2.9	3.3		11/05/12 12:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.1	2.6	3.3		11/05/12 12:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.0	2.0	3.3		11/05/12 12:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4.0	2.0	3.3		11/05/12 12:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.0	2.0	3.3		11/05/12 12:51	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	3.3	1.7	3.3		11/05/12 12:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.7	1.4	3.3		11/05/12 12:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	0.68	3.3		11/05/12 12:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.7	1.3	3.3		11/05/12 12:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.7	0.50	3.3		11/05/12 12:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.7	1.3	3.3		11/05/12 12:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3.1	1.6	3.3		11/05/12 12:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3.0	0.37	3.3		11/05/12 12:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.0	1.5	3.3		11/05/12 12:51	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	4.7	0.70	3.3		11/05/12 12:51	76-14-2	
Ethanol	**19.9**	ug/m3	1.3	0.63	3.3		11/05/12 12:51	64-17-5	
Ethyl acetate	ND	ug/m3	2.4	1.2	3.3		11/05/12 12:51	141-78-6	
Ethylbenzene	**7.4**	ug/m3	2.9	0.39	3.3		11/05/12 12:51	100-41-4	
4-Ethyltoluene	**6.2**	ug/m3	3.3	1.6	3.3		11/05/12 12:51	622-96-8	
n-Heptane	**6.0**	ug/m3	2.7	1.4	3.3		11/05/12 12:51	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.3	3.6	3.3		11/05/12 12:51	87-68-3	
n-Hexane	ND	ug/m3	2.4	1.2	3.3		11/05/12 12:51	110-54-3	
2-Hexanone	**7.9**	ug/m3	2.7	1.4	3.3		11/05/12 12:51	591-78-6	
Methylene Chloride	**3.1**	ug/m3	2.3	1.2	3.3		11/05/12 12:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.4**	ug/m3	2.7	1.4	3.3		11/05/12 12:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2.4	0.29	3.3		11/05/12 12:51	1634-04-4	
Naphthalene	**5.2**	ug/m3	3.5	1.8	3.3		11/05/12 12:51	91-20-3	
2-Propanol	ND	ug/m3	1.6	0.30	3.3		11/05/12 12:51	67-63-0	
Propylene	ND	ug/m3	1.2	0.58	3.3		11/05/12 12:51	115-07-1	
Styrene	**4.8**	ug/m3	2.9	1.4	3.3		11/05/12 12:51	100-42-5	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Sample: A-074922-101712-CM-03823P1-3 **Lab ID: 60131464002** Collected: 10/17/12 13:35 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.3	0.62	3.3		11/05/12 12:51	79-34-5	
Tetrachloroethene	ND	ug/m3	2.3	1.1	3.3		11/05/12 12:51	127-18-4	
Tetrahydrofuran	**84.5**	ug/m3	2.0	0.99	3.3		11/05/12 12:51	109-99-9	
THC as Gas	**6230**	ug/m3	201	100	3.3		11/05/12 12:51		
Toluene	**36.4**	ug/m3	2.5	1.3	3.3		11/05/12 12:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.0	2.5	3.3		11/05/12 12:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3.7	1.8	3.3		11/05/12 12:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.8	0.91	3.3		11/05/12 12:51	79-00-5	
Trichloroethene	ND	ug/m3	1.8	0.90	3.3		11/05/12 12:51	79-01-6	
Trichlorofluoromethane	ND	ug/m3	3.8	0.73	3.3		11/05/12 12:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.3	2.6	3.3		11/05/12 12:51	76-13-1	
1,2,4-Trimethylbenzene	**12.1**	ug/m3	3.3	1.6	3.3		11/05/12 12:51	95-63-6	
1,3,5-Trimethylbenzene	**8.8**	ug/m3	3.3	0.43	3.3		11/05/12 12:51	108-67-8	
Vinyl acetate	ND	ug/m3	2.4	1.2	3.3		11/05/12 12:51	108-05-4	
Vinyl chloride	ND	ug/m3	0.86	0.43	3.3		11/05/12 12:51	75-01-4	
m&p-Xylene	**26.0**	ug/m3	5.8	2.9	3.3		11/05/12 12:51	179601-23-1	
o-Xylene	**12.3**	ug/m3	2.9	0.42	3.3		11/05/12 12:51	95-47-6	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: AIR/16105
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60131464002

METHOD BLANK: 1325781
Matrix: Air
Associated Lab Samples: 60131464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	11/05/12 11:53	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	11/05/12 11:53	
1,1,2-Trichloroethane	ug/m3	ND	0.55	11/05/12 11:53	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	11/05/12 11:53	
1,1-Dichloroethane	ug/m3	ND	0.82	11/05/12 11:53	
1,1-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	11/05/12 11:53	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	11/05/12 11:53	
1,2-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,2-Dichloroethane	ug/m3	ND	0.41	11/05/12 11:53	
1,2-Dichloropropane	ug/m3	ND	0.94	11/05/12 11:53	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,3-Butadiene	ug/m3	ND	0.45	11/05/12 11:53	
1,3-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,4-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
2-Butanone (MEK)	ug/m3	ND	0.60	11/05/12 11:53	
2-Hexanone	ug/m3	ND	0.83	11/05/12 11:53	
2-Propanol	ug/m3	ND	0.50	11/05/12 11:53	
4-Ethyltoluene	ug/m3	ND	1.0	11/05/12 11:53	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	11/05/12 11:53	
Acetone	ug/m3	ND	0.48	11/05/12 11:53	
Benzene	ug/m3	ND	0.32	11/05/12 11:53	
Benzyl chloride	ug/m3	ND	1.0	11/05/12 11:53	
Bromodichloromethane	ug/m3	ND	1.4	11/05/12 11:53	
Bromoform	ug/m3	ND	2.1	11/05/12 11:53	
Bromomethane	ug/m3	ND	0.79	11/05/12 11:53	
Carbon disulfide	ug/m3	ND	0.63	11/05/12 11:53	
Carbon tetrachloride	ug/m3	ND	0.64	11/05/12 11:53	
Chlorobenzene	ug/m3	ND	0.94	11/05/12 11:53	
Chloroethane	ug/m3	ND	0.54	11/05/12 11:53	
Chloroform	ug/m3	ND	0.99	11/05/12 11:53	
Chloromethane	ug/m3	ND	0.42	11/05/12 11:53	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Cyclohexane	ug/m3	ND	0.70	11/05/12 11:53	
Dibromochloromethane	ug/m3	ND	1.7	11/05/12 11:53	
Dichlorodifluoromethane	ug/m3	ND	1.0	11/05/12 11:53	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	11/05/12 11:53	
Ethanol	ug/m3	ND	0.38	11/05/12 11:53	
Ethyl acetate	ug/m3	ND	0.73	11/05/12 11:53	
Ethylbenzene	ug/m3	ND	0.88	11/05/12 11:53	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	11/05/12 11:53	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

METHOD BLANK: 1325781 Matrix: Air

Associated Lab Samples: 60131464002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	11/05/12 11:53	
Methyl-tert-butyl ether	ug/m3	ND	0.73	11/05/12 11:53	
Methylene Chloride	ug/m3	ND	0.71	11/05/12 11:53	
n-Heptane	ug/m3	ND	0.83	11/05/12 11:53	
n-Hexane	ug/m3	ND	0.72	11/05/12 11:53	
Naphthalene	ug/m3	ND	1.1	11/05/12 11:53	
o-Xylene	ug/m3	ND	0.88	11/05/12 11:53	
Propylene	ug/m3	ND	0.35	11/05/12 11:53	
Styrene	ug/m3	ND	0.87	11/05/12 11:53	
Tetrachloroethene	ug/m3	ND	0.69	11/05/12 11:53	
Tetrahydrofuran	ug/m3	ND	0.60	11/05/12 11:53	
THC as Gas	ug/m3	ND	60.8	11/05/12 11:53	
Toluene	ug/m3	ND	0.77	11/05/12 11:53	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Trichloroethene	ug/m3	ND	0.55	11/05/12 11:53	
Trichlorofluoromethane	ug/m3	ND	1.1	11/05/12 11:53	
Vinyl acetate	ug/m3	ND	0.72	11/05/12 11:53	
Vinyl chloride	ug/m3	ND	0.26	11/05/12 11:53	

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.0	115	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	53.6	97	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.2	104	65-132	
1,1-Dichloroethane	ug/m3	41.2	41.6	101	67-132	
1,1-Dichloroethene	ug/m3	40.3	40.1	99	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	82.3	109	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	48.7	97	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.7	106	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	67.3	110	71-132	
1,2-Dichloroethane	ug/m3	41.2	45.3	110	70-131	
1,2-Dichloropropane	ug/m3	47	53.3	113	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	47.2	94	70-133	
1,3-Butadiene	ug/m3	22.5	22.1	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	66.8	109	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	60.7	99	72-131	
2-Butanone (MEK)	ug/m3	30	29.2	97	69-131	
2-Hexanone	ug/m3	41.7	40.0	96	71-134	
2-Propanol	ug/m3	25	27.2	109	72-132	
4-Ethyltoluene	ug/m3	50	51.0	102	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.4	95	69-135	
Acetone	ug/m3	24.2	23.5	97	61-139	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	36.6	113	69-134	
Benzyl chloride	ug/m3	52.5	55.9	107	70-129	
Bromodichloromethane	ug/m3	68.2	78.4	115	71-130	
Bromoform	ug/m3	105	106	101	70-130	
Bromomethane	ug/m3	39.5	40.5	103	69-125	
Carbon disulfide	ug/m3	31.7	30.0	95	66-131	
Carbon tetrachloride	ug/m3	64	73.9	115	68-128	
Chlorobenzene	ug/m3	46.8	49.6	106	75-128	
Chloroethane	ug/m3	26.8	27.3	102	66-131	
Chloroform	ug/m3	49.7	55.4	112	68-132	
Chloromethane	ug/m3	21	20.4	97	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	42.2	105	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	45.3	98	74-134	
Cyclohexane	ug/m3	35	40.3	115	67-136	
Dibromochloromethane	ug/m3	86.6	88.1	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	51.7	103	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	72.4	102	66-130	
Ethanol	ug/m3	19.2	17.0	89	69-131	
Ethyl acetate	ug/m3	36.6	41.3	113	71-131	
Ethylbenzene	ug/m3	44.2	43.9	99	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	74.6	69	41-150	
m&p-Xylene	ug/m3	88.3	86.4	98	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	40.6	111	70-132	
Methylene Chloride	ug/m3	35.3	31.9	90	73-134	
n-Heptane	ug/m3	41.7	40.0	96	70-134	
n-Hexane	ug/m3	35.8	34.7	97	65-133	
Naphthalene	ug/m3	53.3	68.7	129	57-150	
o-Xylene	ug/m3	44.2	42.7	97	69-138	
Propylene	ug/m3	17.5	18.4	105	70-134	
Styrene	ug/m3	43.3	44.0	102	72-132	
Tetrachloroethene	ug/m3	69	81.1	118	70-130	
Tetrahydrofuran	ug/m3	30	29.3	98	74-128	
THC as Gas	ug/m3	3030	3190	105	66-131	
Toluene	ug/m3	38.3	37.8	99	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	43.1	107	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.5	99	73-130	
Trichloroethene	ug/m3	54.6	67.3	123	72-131	
Trichlorofluoromethane	ug/m3	57.1	57.4	100	66-129	
Vinyl acetate	ug/m3	35.8	32.5	91	71-131	
Vinyl chloride	ug/m3	26	26.6	102	70-131	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: GCV/4130
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60131464001

METHOD BLANK: 1084707
Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/22/12 11:53	
4-Bromofluorobenzene (S)	%	93	70-130	10/22/12 11:53	

LABORATORY CONTROL SAMPLE: 1084708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	1.2	124	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: MPRP/20163
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60131464001

METHOD BLANK: 1086308 Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/27/12 13:18	
Calcium, Dissolved	ug/L	ND	100	10/27/12 13:18	
Magnesium, Dissolved	ug/L	ND	50.0	10/27/12 13:18	
Potassium, Dissolved	ug/L	ND	500	10/27/12 13:18	
Sodium, Dissolved	ug/L	ND	500	10/27/12 13:18	

LABORATORY CONTROL SAMPLE: 1086309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	936	94	80-120	
Calcium, Dissolved	ug/L	10000	9710	97	80-120	
Magnesium, Dissolved	ug/L	10000	9280	93	80-120	
Potassium, Dissolved	ug/L	10000	10100	101	80-120	
Sodium, Dissolved	ug/L	10000	9730	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1086310 1086311

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	ND	1000	1000	1030	1020	95	93	75-125	1	20	
Calcium, Dissolved	ug/L	106000	10000	10000	116000	115000	92	88	75-125	0	20	
Magnesium, Dissolved	ug/L	3020	10000	10000	12400	12500	94	94	75-125	1	20	
Potassium, Dissolved	ug/L	2020	10000	10000	12300	12400	103	104	75-125	1	20	
Sodium, Dissolved	ug/L	166000	10000	10000	172000	169000	62	35	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: MSV/49499
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60131464001

METHOD BLANK: 1085845
Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 10:15	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/24/12 10:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 10:15	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/24/12 10:15	
1,1-Dichloroethane	ug/L	ND	1.0	10/24/12 10:15	
1,1-Dichloroethene	ug/L	ND	1.0	10/24/12 10:15	
1,1-Dichloropropene	ug/L	ND	1.0	10/24/12 10:15	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/24/12 10:15	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/24/12 10:15	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/24/12 10:15	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/24/12 10:15	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/24/12 10:15	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/24/12 10:15	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/24/12 10:15	
1,2-Dichloroethane	ug/L	ND	1.0	10/24/12 10:15	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/24/12 10:15	
1,2-Dichloropropane	ug/L	ND	1.0	10/24/12 10:15	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/24/12 10:15	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/24/12 10:15	
1,3-Dichloropropane	ug/L	ND	1.0	10/24/12 10:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/24/12 10:15	
2,2-Dichloropropane	ug/L	ND	1.0	10/24/12 10:15	
2-Butanone (MEK)	ug/L	ND	10.0	10/24/12 10:15	
2-Chlorotoluene	ug/L	ND	1.0	10/24/12 10:15	
2-Hexanone	ug/L	ND	10.0	10/24/12 10:15	
4-Chlorotoluene	ug/L	ND	1.0	10/24/12 10:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/24/12 10:15	
Acetone	ug/L	ND	10.0	10/24/12 10:15	
Benzene	ug/L	ND	1.0	10/24/12 10:15	
Bromobenzene	ug/L	ND	1.0	10/24/12 10:15	
Bromochloromethane	ug/L	ND	1.0	10/24/12 10:15	
Bromodichloromethane	ug/L	ND	1.0	10/24/12 10:15	
Bromoform	ug/L	ND	1.0	10/24/12 10:15	
Bromomethane	ug/L	ND	5.0	10/24/12 10:15	
Carbon disulfide	ug/L	ND	5.0	10/24/12 10:15	
Carbon tetrachloride	ug/L	ND	1.0	10/24/12 10:15	
Chlorobenzene	ug/L	ND	1.0	10/24/12 10:15	
Chloroethane	ug/L	ND	1.0	10/24/12 10:15	
Chloroform	ug/L	ND	1.0	10/24/12 10:15	
Chloromethane	ug/L	ND	1.0	10/24/12 10:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 10:15	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 10:15	
Dibromochloromethane	ug/L	ND	1.0	10/24/12 10:15	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

METHOD BLANK: 1085845 Matrix: Water

Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	10/24/12 10:15	
Dichlorodifluoromethane	ug/L	ND	1.0	10/24/12 10:15	
Ethylbenzene	ug/L	ND	1.0	10/24/12 10:15	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/24/12 10:15	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/24/12 10:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/24/12 10:15	
Methylene chloride	ug/L	ND	1.0	10/24/12 10:15	
n-Butylbenzene	ug/L	ND	1.0	10/24/12 10:15	
n-Propylbenzene	ug/L	ND	1.0	10/24/12 10:15	
Naphthalene	ug/L	ND	10.0	10/24/12 10:15	
p-Isopropyltoluene	ug/L	ND	1.0	10/24/12 10:15	
sec-Butylbenzene	ug/L	ND	1.0	10/24/12 10:15	
Styrene	ug/L	ND	1.0	10/24/12 10:15	
tert-Butylbenzene	ug/L	ND	1.0	10/24/12 10:15	
Tetrachloroethene	ug/L	ND	1.0	10/24/12 10:15	
Toluene	ug/L	ND	1.0	10/24/12 10:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 10:15	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 10:15	
Trichloroethene	ug/L	ND	1.0	10/24/12 10:15	
Trichlorofluoromethane	ug/L	ND	1.0	10/24/12 10:15	
Vinyl chloride	ug/L	ND	1.0	10/24/12 10:15	
Xylene (Total)	ug/L	ND	3.0	10/24/12 10:15	
1,2-Dichloroethane-d4 (S)	%	96	80-120	10/24/12 10:15	
4-Bromofluorobenzene (S)	%	98	80-120	10/24/12 10:15	
Dibromofluoromethane (S)	%	102	80-120	10/24/12 10:15	
Toluene-d8 (S)	%	99	80-120	10/24/12 10:15	

LABORATORY CONTROL SAMPLE: 1085846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	100	79-121	
1,1,1-Trichloroethane	ug/L	20	20.0	100	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	21.9	110	71-121	
1,1,2-Trichloroethane	ug/L	20	22.1	110	78-120	
1,1-Dichloroethane	ug/L	20	18.7	94	74-120	
1,1-Dichloroethene	ug/L	20	21.3	107	68-120	
1,1-Dichloropropene	ug/L	20	21.8	109	78-120	
1,2,3-Trichlorobenzene	ug/L	20	22.0	110	70-129	
1,2,3-Trichloropropane	ug/L	20	24.0	120	74-121	
1,2,4-Trichlorobenzene	ug/L	20	22.0	110	76-123	
1,2,4-Trimethylbenzene	ug/L	20	20.5	102	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	17.8	89	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	22.5	113	76-125	
1,2-Dichlorobenzene	ug/L	20	20.2	101	80-120	
1,2-Dichloroethane	ug/L	20	20.7	103	72-123	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

LABORATORY CONTROL SAMPLE: 1085846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	40.3	101	78-120	
1,2-Dichloropropane	ug/L	20	21.9	110	78-120	
1,3,5-Trimethylbenzene	ug/L	20	20.3	101	75-120	
1,3-Dichlorobenzene	ug/L	20	21.0	105	79-120	
1,3-Dichloropropane	ug/L	20	21.7	108	75-120	
1,4-Dichlorobenzene	ug/L	20	20.3	101	80-120	
2,2-Dichloropropane	ug/L	20	21.1	105	54-132	
2-Butanone (MEK)	ug/L	100	109	109	40-160	
2-Chlorotoluene	ug/L	20	20.1	100	78-120	
2-Hexanone	ug/L	100	111	111	40-160	
4-Chlorotoluene	ug/L	20	21.0	105	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	65-126	
Acetone	ug/L	100	108	108	40-160	
Benzene	ug/L	20	20.7	103	74-123	
Bromobenzene	ug/L	20	21.0	105	79-120	
Bromochloromethane	ug/L	20	21.5	108	75-120	
Bromodichloromethane	ug/L	20	20.7	103	74-120	
Bromoform	ug/L	20	21.4	107	70-123	
Bromomethane	ug/L	20	17.7	89	40-158	
Carbon disulfide	ug/L	20	18.5	92	67-135	
Carbon tetrachloride	ug/L	20	20.6	103	74-126	
Chlorobenzene	ug/L	20	21.8	109	80-120	
Chloroethane	ug/L	20	19.3	97	60-144	
Chloroform	ug/L	20	20.6	103	77-120	
Chloromethane	ug/L	20	16.1	81	40-142	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	70-120	
cis-1,3-Dichloropropene	ug/L	20	21.9	109	73-121	
Dibromochloromethane	ug/L	20	21.0	105	77-122	
Dibromomethane	ug/L	20	21.7	108	76-120	
Dichlorodifluoromethane	ug/L	20	10.3	51	40-160	
Ethylbenzene	ug/L	20	21.9	110	76-123	
Hexachloro-1,3-butadiene	ug/L	20	19.7	98	72-124	
Isopropylbenzene (Cumene)	ug/L	20	23.2	116	80-126	
Methyl-tert-butyl ether	ug/L	20	22.5	112	67-125	
Methylene chloride	ug/L	20	20.5	103	72-127	
n-Butylbenzene	ug/L	20	20.2	101	76-125	
n-Propylbenzene	ug/L	20	18.8	94	77-120	
Naphthalene	ug/L	20	19.6	98	63-128	
p-Isopropyltoluene	ug/L	20	19.9	99	77-121	
sec-Butylbenzene	ug/L	20	20.2	101	77-122	
Styrene	ug/L	20	22.6	113	79-120	
tert-Butylbenzene	ug/L	20	20.3	101	75-124	
Tetrachloroethene	ug/L	20	21.3	107	78-121	
Toluene	ug/L	20	20.5	103	75-123	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	80-129	
trans-1,3-Dichloropropene	ug/L	20	22.8	114	77-122	
Trichloroethene	ug/L	20	20.7	103	74-120	
Trichlorofluoromethane	ug/L	20	20.7	103	69-122	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

LABORATORY CONTROL SAMPLE: 1085846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	18.6	93	50-140	
Xylene (Total)	ug/L	60	64.8	108	76-123	
1,2-Dichloroethane-d4 (S)	%			107	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: OEXT/35576
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60131464001

METHOD BLANK: 1082593 Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/19/12 18:10	
n-Tetracosane (S)	%	58	35-120	10/19/12 18:10	
p-Terphenyl (S)	%	55	35-121	10/19/12 18:10	

LABORATORY CONTROL SAMPLE: 1082594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	25	16.2	65	56-120	
n-Tetracosane (S)	%			58	35-120	
p-Terphenyl (S)	%			59	35-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1082595 1082596

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/L	ND	25	25	16.8	18.0	67	72	56-122	7	29	
n-Tetracosane (S)	%						65	68	35-120			
p-Terphenyl (S)	%						64	68	35-121			

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: WET/37848
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60131464001

METHOD BLANK: 1085484 Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/24/12 10:56	

LABORATORY CONTROL SAMPLE: 1085485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	493	99	90-110	

SAMPLE DUPLICATE: 1085486

Parameter	Units	60131463001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	223	227	2	9	

SAMPLE DUPLICATE: 1085487

Parameter	Units	60131643002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	499	522	5	9	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: WET/37827
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60131464001

METHOD BLANK: 1085113
Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/23/12 09:30	

SAMPLE DUPLICATE: 1085114

Parameter	Units	60131394005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	472	471	0	17	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: WET/37837
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60131464001

METHOD BLANK: 1085237 Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/23/12 19:09	

LABORATORY CONTROL SAMPLE: 1085238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 1085239

Parameter	Units	60131463001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	98	75-125	

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

QC Batch: WETA/22245
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60131464001

METHOD BLANK: 1089453 Matrix: Water
Associated Lab Samples: 60131464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	10/30/12 03:24	
Chloride	mg/L	ND	1.0	10/30/12 03:24	
Sulfate	mg/L	ND	1.0	10/30/12 03:24	

LABORATORY CONTROL SAMPLE: 1089454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.9	99	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1089455 1089456

Parameter	Units	60131955013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	100	100	98.8	96.8	99	97	75-119	2	10	
Chloride	mg/L	187	100	100	281	279	94	92	64-118	1	12	
Sulfate	mg/L	51.3	100	100	147	144	95	93	61-119	2	10	

680

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCV/4130

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/49499

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074922 AREA 6 03823P1-3
Pace Project No.: 60131464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60131464002	**A-074922-101712-CM-03823P1-3**	TO-15	AIR/16105		
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 3510C	OEXT/35576	EPA 8015B	GCSV/13379
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 5030B/8015B	GCV/4130		
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 3010	MPRP/20163	EPA 6010	ICP/16509
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 5030B/8260	MSV/49499		
60131464001	**GW-074922-101712-CM-03823PI-3**	SM 2320B	WET/37848		
60131464001	**GW-074922-101712-CM-03823PI-3**	SM 2540C	WET/37827		
60131464001	**GW-074922-101712-CM-03823PI-3**	SM 4500-S-2 D	WET/37837		
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 300.0	WETA/22216		
60131464001	**GW-074922-101712-CM-03823PI-3**	EPA 300.0	WETA/22245		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 312020 Job Number: 19559

Submitter Sample Name: GW-074922-101712-CM-03823P1-3

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan Basin, NM

Depth/Formation:

Container Type: IsoBag

Sample Collected: 10/17/2012 Results Reported: 11/13/2012

δD of water	----------	-113.3 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-14.96 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks: Nitrates not analyzed for isotopes due to insufficient concentration.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #:	313509	Job #:	19649
Sample Name/Number:	GW-074922-101712-CM-03823P1-3		
Company:	Pace Analytical		
Date Sampled:	10/17/2012		
Container:	IsoBag		
Field/Site Name:	074922 - Area 6		
Location:	San Juan Basin, NM		
Formation/Depth:			
Sampling Point:			
Date Received:	10/26/2012	Date Reported:	10/30/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	na			
Hydrogen	nd			
Argon	1.40			
Oxygen	21.43			
Nitrogen	71.66			
Carbon Dioxide	5.50			
Methane	0.0133			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.80
Concentration of methane in water = 0.0040 cc/L ; 0.0027 ppm
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 313514 Job #: 19650
Sample Name: A-074922-101712-CM-03823P1-3 Co. Lab#:
Company: Pace Analytical
Date Sampled: 10/17/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location:
Formation/Depth:
Sampling Point:
Date Received: 10/26/2012 Date Reported: 11/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	nd			
Hydrogen	nd			
Argon	0.959			
Oxygen	19.10			
Nitrogen	79.17			-0.3
Carbon Dioxide	0.77	-19.12		
Methane	0.0002			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.002
Delta O-18 of carbon dioxide = -4.00‰ vs VPDB

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

Air TECHNOLOGY Laboratories, Inc.

October 31, 2012

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1945

LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175

TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Pace Analytical
ATTN: Alice Flanagan
9608 Loiret Blvd.
Lenexa, KS 66219

LABORATORY TEST RESULTS

Project Reference: 60131464; 074922 Area 6 03823P1-3
Lab Number: D102204-01

Enclosed are results for sample(s) received 10/22/12 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Chain of Custody

D102204-01

Pace Analytical®
www.pacelabs.com

Workorder: 60131464 **Workorder Name:** 074922 AREA 6 03823P1-3 **Results Requested** 10/31/2012

Report/ Invoice To	Subcontract To
Alice Flanagan Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Email: alice.flanagan@pacelabs.com	P.O. SUB-6522

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Acetylene ASTM D1946	Requested Analysis: Hydrogen sulfide EPA 15/16	LAB USE ONLY
1	A-074922-101712-CM-03823P1-3	10/17/2012 13:35	60131464002	Air	1	X	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1				10/23/12 1500
2				
3				

Comments

Cooler Temperature on Receipt °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Package 39 of 49

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 03823P1-3
Project No.: 60131464
Date Received: 10/22/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D102204-01							
Client Sample I.D.:	A-074922-101712-CM-03823P1-3 / 60131464002							
Date Sampled:	10/17/12							
Date Analyzed:	10/23/12							
QC Batch No.:	121023GC3A1							
Analyst Initials:	VM							
Dilution Factor:	2.2							
ANALYTE	Result ppmv	RL ppmv						
Hydrogen Sulfide	ND	0.44						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 10/29/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 121023GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/23/12		10/23/12		10/23/12			
Analyst Initials:	VM		VM		VM			
Datafile:	23oct003		23oct001		23oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	84	70-130%	84	70-130%	0.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 10/29/12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 03823P1-3
Project No.: 60131464
Date Received: 10/22/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	D102204-01							
Client Sample I.D.:	A-074922-101712-CM-03823P1-3 /							
Date Sampled:	10/17/12							
Date Analyzed:	10/25/12							
QC Batch No.:	121025GC8A1							
Analyst Initials:	MJ							
Dilution Factor:	2.2							
ANALYTE	**Result % v/v**	**RL % v/v**						
Acetylene	ND	0.0022						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 10-30-12

Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 03823P1-3
Project No.: 60131464
Date Received: 10/22/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**D102204-01**							
Client Sample I.D.:	**A-074922-101712-CM-03823P1-3 / 60131464002**							
Date Sampled:	**10/17/12**							
Date Analyzed:	**10/25/12**							
QC Batch No.:	**121025GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**2.2**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Acetylene	ND	0.0022						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 10/31/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

AirTECHNOLOGY *Laboratories, Inc.*
18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 121025GC8A1
Matrix: Air
Units: ppmv

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/25/12		10/25/12		10/25/12			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	25oct004		25oct001		25oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Acetylene	ND	10	92	70-130%	90	70-130%	2.6	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 10-30-12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

SUB - 60522

60131464

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
Standard [X] 48 hours [ ]
Same Day [ ] 72 hours [ ]
24 hours [ ] 96 hours [ ]
Other:

DELIVERABLES
EDD [ ]
EDF [ ]
LEVEL 3 [ ]
LEVEL 4 [ ]

PAGE: / **OF**

Condition upon receipt:
Sealed Yes [ ] No [ ]
Intact Yes [ ] No [ ]
Chilled _____ deg C

Project No.:	074922
Project Name:	Area 6
Report To:	Christine Mathews
Company:	CRA
Street:	6121 Indian School NE #200
City/State/Zip:	Albuquerque NM 87110
Phone& Fax:	505.884.0672
e-mail:	cmathews@CRAworld.com

BILLING
P.O. No.:
Bill to: Alice Flanagan
Pace Lenexa

ANALYSIS REQUEST
ASTM D1946 Acetylene
EPA 15/16 Hydrogen Sulfide

Lab ID
60131464002

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE						
1102204-01	A-074922-101712-CM-038231-3	10/17/12	1325	Air	Silco	X	X				

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME	10/19/12 1600
SAMPLED BY Jason Hoyt	COMPANY CRA	DATE/TIME	10/17/12 1335
RELINQUISHED BY	DATE/TIME 10/19/12 1630	RECEIVED BY	DATE/TIME
RELINQUISHED BY FED EX	DATE/TIME 10/22/12 1245	RECEIVED BY JON THOMSON	DATE/TIME 10/22/12 1245
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

COMMENTS
Please report each chain separately and send to Alice Flanagan of Pace Lenexa

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

60 131464

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMathews@Craworld.com

Project: 074922- Area 6
Location: San Juan Basin, NM
Sampled by: CM, JP, SF

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: oxygen, hydrogen & nitrogen isotopes	Analyses Requested: dissolved methane isobags	Analyses Requested:	Comments
	GW-074922-10112-CM-03823PA-3	10-17-12	X	X		

Note: Please report to Alice Flanagan of pace analytical. All samples to be reported seperately.

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	[signature]	CRA	10-17-12	1600
Received by	Peter Colvin	Isotech	10/18/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

60131464

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMathews@craworld.com

Project: 074922 Area 6
Location: San Juan Basin, NM
Sampled by: Christine Mathews

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Mass Spec			Comments
	A-074922-10172-CM-083123PI-3	10-17-12	X			*Please analyze for carbon/hydrogen isotopes C1 and C2. Nitrogen isotopes, Hydrocarbons/Fixed gases, Specific gravity, BTU/cuFt

* report each chain individually send to Alice Flanagan at Pace

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	[signature]	CRA	10/22/12	1600
Received by	[signature]	Isotech	10/23/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

ANALYTICAL RESULTS SUMMARY
MAY 2012 - OCTOBER 2012
02992 - ROBINS, HARVEY

AIR TO-15 RESULTS		
Well ID→	02992	
Sample ID→	A-074922-052412-CM-02992-1	A-074922-101812-CM-02992-2
Date→	5/24/2012	10/18/2012
Constituents ↓	Results in ug/m3	Results in ug/m3
Acetone	79.0	121
Benzene	< 3.4	0.97
Bromodichloromethane	< 7.2	< 2.9
Bromomethane	< 4.1	15.0
2-Butanone	7,470	13,600
Carbon disulfide	< 3.3	2.4
Carbon tetrachloride	< 6.7	< 1.3
Chloroethane	< 2.8	3.1
Chloroform	< 5.2	< 2.1
Chloromethane	< 2.2	3.8
Cyclohexane	20.3	3.8
Dichlorodifluoromethane	< 5.3	< 2.1
1,4-Dichlorobenzene	8.1	< 2.6
1,2 - Dichloroethane	< 4.3	1.0
1,1 - Dichloroethene	< 4.2	< 1.7
cis - 1,2 - Dichloroethene	< 4.2	< 1.7
trans - 1,2 - Dichloroethene	< 4.2	< 1.7
trans - 1,3 - Dichloropropene	< 4.9	< 1.9
Dichlorotetrafluorethane	< 7.5	< 3.0
Ethanol	18.7	64.8
Ethylbenzene	< 4.6	7.5
4 -Ethyltoluene	< 5.2	6.1
n-Heptane	13.6	5.3
2-Hexanone	< 4.4	8.5
Hexachloro-1,3-butadiene	< 11.4	< 4.6
n-Hexane	< 3.8	< 1.5
Methylene Chloride	< 3.7	2.3
4-methyl-2-pentanone	7.5	6.0
Naphthalene	< 5.6	9.3
2-propanol	3.3	11.3
Styrene	< 4.5	5.0
1,1,2,2-Tetrachloroethane	< 7.3	< 1.5
Tetrahydrofuran	3,880	9,170
Toluene	195	49.6
1,2,4-Trichlorobenzene	< 7.9	< 3.2
1,1,2-Trichloroethane	< 5.8	< 1.2
Trichloroethene	< 5.7	< 1.2
Trichlorofluoromethane	< 6.0	< 2.4
1,1,2-Trichlorotrifluoroethane	< 8.2	< 3.4
1,2,4-Trimethylbenzene	< 5.2	16.6
1,3,5-Trimethylbenzene	< 5.2	7.5
Vinyl Chloride	< 2.7	< 0.55
THC as Gas	15,400	14,500
Xylenes	< 13.9	21.1

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume
10. **** = Data obtained from Isobag

There is no EPA-approved method for analysis of methane in the headspace of groundwater samples. Prior to October 2012, analysis of dissolved gases in groundwater samples from this location utilized Method RSK 175. This method requires collection of a groundwater sample in a glass vial with a screw-on cap. Therefore, the sample has the potential for exposure to ambient air during collection. Beginning in October 2012, IsoBags® have been utilized to collect groundwater samples from this location. An IsoBag eliminates exposure of the sample to ambient air thus preventing the potential loss of dissolved gases prior to analysis.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

November 06, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between October 20, 2012 and October 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60131664001	GW-074922-101912-CM-02992-2	Water	10/19/12 14:15	10/20/12 08:45
60131664002	A-074922-101812-CM-02992-2	Air	10/18/12 14:20	10/22/12 12:45

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SAMPLE ANALYTE COUNT

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60131664001	**GW-074922-101912-CM-02992-2**	EPA 8015B	NAW	3	PASI-K
		EPA 5030B/8015B	SDR	3	PASI-K
		EPA 6010	SMW	5	PASI-K
		EPA 5030B/8260	JTK	70	PASI-K
		SM 2320B	DJR	1	PASI-K
		SM 2540C	FJF	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	AJM	3	PASI-K
60131664002	**A-074922-101812-CM-02992-2**	TO-15	CJR	62	PASI-M

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: TO-15
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/16105

A3: The sample was analyzed by serial dilution.

- A-074922-101812-CM-02992-2 (Lab ID: 60131664002)
  - 2-Butanone (MEK)
  - Tetrahydrofuran

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: OEXT/35658

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1085694)
  - n-Tetracosane (S)
- GW-074922-101912-CM-02992-2 (Lab ID: 60131664001)
  - n-Tetracosane (S)
- LCS (Lab ID: 1085695)
  - n-Tetracosane (S)

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCSV/13415

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/20163

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131463001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1086310)
  - Sodium, Dissolved
- MSD (Lab ID: 1086311)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/49641

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/37912

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 1087569)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Sample: GW-074922-101912-CM-02992-2 **Lab ID: 60131664001** Collected: 10/19/12 14:15 Received: 10/20/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.080	1	10/24/12 00:00	10/30/12 19:47		
Surrogates									
p-Terphenyl (S)	95	%	35-121		1	10/24/12 00:00	10/30/12 19:47	92-94-4	
n-Tetracosane (S)	89	%	35-120		1	10/24/12 00:00	10/30/12 19:47	646-31-1	CH
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	ND	mg/L	0.50	0.12	1		10/28/12 15:23		
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/28/12 15:23	460-00-4	
Preservation pH	**1.0**				1		10/28/12 15:23		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	ND	ug/L	100	1.8	1	10/24/12 17:00	10/27/12 13:45	7440-42-8	
Calcium, Dissolved	**237000**	ug/L	100	35.8	1	10/24/12 17:00	10/27/12 13:45	7440-70-2	
Magnesium, Dissolved	**10300**	ug/L	50.0	17.2	1	10/24/12 17:00	10/27/12 13:45	7439-95-4	
Potassium, Dissolved	**2840**	ug/L	500	64.1	1	10/24/12 17:00	10/27/12 13:45	7440-09-7	
Sodium, Dissolved	**176000**	ug/L	500	40.1	1	10/24/12 17:00	10/27/12 13:45	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.2	1		10/28/12 16:58	67-64-1	
Benzene	ND	ug/L	1.0	0.12	1		10/28/12 16:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.083	1		10/28/12 16:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.48	1		10/28/12 16:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.21	1		10/28/12 16:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.58	1		10/28/12 16:58	75-25-2	
Bromomethane	ND	ug/L	5.0	0.27	1		10/28/12 16:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.92	1		10/28/12 16:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.13	1		10/28/12 16:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.12	1		10/28/12 16:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.11	1		10/28/12 16:58	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.14	1		10/28/12 16:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.19	1		10/28/12 16:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.13	1		10/28/12 16:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		10/28/12 16:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.096	1		10/28/12 16:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.092	1		10/28/12 16:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.23	1		10/28/12 16:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.39	1		10/28/12 16:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1.4	1		10/28/12 16:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.29	1		10/28/12 16:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.31	1		10/28/12 16:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.73	1		10/28/12 16:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.18	1		10/28/12 16:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.15	1		10/28/12 16:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.17	1		10/28/12 16:58	106-46-7	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Sample: GW-074922-101912-CM-02992-2 **Lab ID: 60131664001** Collected: 10/19/12 14:15 Received: 10/20/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.18	1		10/28/12 16:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.30	1		10/28/12 16:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.18	1		10/28/12 16:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		10/28/12 16:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.15	1		10/28/12 16:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		10/28/12 16:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.083	1		10/28/12 16:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		10/28/12 16:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.19	1		10/28/12 16:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.26	1		10/28/12 16:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.32	1		10/28/12 16:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		10/28/12 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.11	1		10/28/12 16:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.060	1		10/28/12 16:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.47	1		10/28/12 16:58	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		10/28/12 16:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.18	1		10/28/12 16:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.066	1		10/28/12 16:58	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.24	1		10/28/12 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1.5	1		10/28/12 16:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.33	1		10/28/12 16:58	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.25	1		10/28/12 16:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		10/28/12 16:58	103-65-1	
Styrene	ND	ug/L	1.0	0.070	1		10/28/12 16:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		10/28/12 16:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.26	1		10/28/12 16:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.13	1		10/28/12 16:58	127-18-4	
Toluene	ND	ug/L	1.0	0.054	1		10/28/12 16:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.64	1		10/28/12 16:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.52	1		10/28/12 16:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		10/28/12 16:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.27	1		10/28/12 16:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		10/28/12 16:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.17	1		10/28/12 16:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.35	1		10/28/12 16:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.087	1		10/28/12 16:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.14	1		10/28/12 16:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.11	1		10/28/12 16:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.67	1		10/28/12 16:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		10/28/12 16:58	460-00-4	
Dibromofluoromethane (S)	97	%	80-120		1		10/28/12 16:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		10/28/12 16:58	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		10/28/12 16:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/28/12 16:58		

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Sample: GW-074922-101912-CM-02992-2 **Lab ID: 60131664001** Collected: 10/19/12 14:15 Received: 10/20/12 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**227**	mg/L	20.0	1.2	1		10/24/12 12:48		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1450**	mg/L	5.0	5.0	1		10/26/12 11:28		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		10/23/12 19:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	ND	mg/L	1.0	0.059	1		10/29/12 17:48	24959-67-9	
Chloride	**7.3**	mg/L	1.0	0.50	1		10/29/12 17:48	16887-00-6	
Sulfate	**771**	mg/L	100	34.0	100		10/29/12 18:03	14808-79-8	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Sample: A-074922-101812-CM-02992-2 **Lab ID: 60131664002** Collected: 10/18/12 14:20 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**121**	ug/m3	1.0	0.51	2.1		11/05/12 12:22	67-64-1	
Benzene	**0.97**	ug/m3	0.68	0.34	2.1		11/05/12 12:22	71-43-2	
Benzyl chloride	ND	ug/m3	2.2	1.1	2.1		11/05/12 12:22	100-44-7	
Bromodichloromethane	ND	ug/m3	2.9	0.37	2.1		11/05/12 12:22	75-27-4	
Bromoform	ND	ug/m3	4.4	2.2	2.1		11/05/12 12:22	75-25-2	
Bromomethane	**15.0**	ug/m3	1.7	0.38	2.1		11/05/12 12:22	74-83-9	
1,3-Butadiene	ND	ug/m3	0.94	0.47	2.1		11/05/12 12:22	106-99-0	
2-Butanone (MEK)	**13600**	ug/m3	340	88.5	567.48		11/05/12 14:47	78-93-3	A3
Carbon disulfide	**2.4**	ug/m3	1.3	0.67	2.1		11/05/12 12:22	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.3	0.67	2.1		11/05/12 12:22	56-23-5	
Chlorobenzene	ND	ug/m3	2.0	0.98	2.1		11/05/12 12:22	108-90-7	
Chloroethane	**3.1**	ug/m3	1.1	0.57	2.1		11/05/12 12:22	75-00-3	
Chloroform	ND	ug/m3	2.1	1.0	2.1		11/05/12 12:22	67-66-3	
Chloromethane	**3.8**	ug/m3	0.88	0.44	2.1		11/05/12 12:22	74-87-3	
Cyclohexane	**3.8**	ug/m3	1.5	0.74	2.1		11/05/12 12:22	110-82-7	
Dibromochloromethane	ND	ug/m3	3.6	1.8	2.1		11/05/12 12:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	3.3	1.6	2.1		11/05/12 12:22	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.6	1.3	2.1		11/05/12 12:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.6	1.3	2.1		11/05/12 12:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.6	1.3	2.1		11/05/12 12:22	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2.1	1.1	2.1		11/05/12 12:22	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.7	0.87	2.1		11/05/12 12:22	75-34-3	
1,2-Dichloroethane	**1.0**	ug/m3	0.86	0.43	2.1		11/05/12 12:22	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.7	0.85	2.1		11/05/12 12:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.7	0.32	2.1		11/05/12 12:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.7	0.85	2.1		11/05/12 12:22	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2.0	0.99	2.1		11/05/12 12:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.9	0.23	2.1		11/05/12 12:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.9	0.97	2.1		11/05/12 12:22	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	3.0	0.45	2.1		11/05/12 12:22	76-14-2	
Ethanol	**64.8**	ug/m3	0.80	0.40	2.1		11/05/12 12:22	64-17-5	
Ethyl acetate	ND	ug/m3	1.5	0.75	2.1		11/05/12 12:22	141-78-6	
Ethylbenzene	**7.5**	ug/m3	1.8	0.25	2.1		11/05/12 12:22	100-41-4	
4-Ethyltoluene	**6.1**	ug/m3	2.1	1.0	2.1		11/05/12 12:22	622-96-8	
n-Heptane	**5.3**	ug/m3	1.7	0.87	2.1		11/05/12 12:22	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	4.6	2.3	2.1		11/05/12 12:22	87-68-3	
n-Hexane	ND	ug/m3	1.5	0.76	2.1		11/05/12 12:22	110-54-3	
2-Hexanone	**8.5**	ug/m3	1.7	0.87	2.1		11/05/12 12:22	591-78-6	
Methylene Chloride	**2.3**	ug/m3	1.5	0.74	2.1		11/05/12 12:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**6.0**	ug/m3	1.7	0.87	2.1		11/05/12 12:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	1.5	0.18	2.1		11/05/12 12:22	1634-04-4	
Naphthalene	**9.3**	ug/m3	2.2	1.1	2.1		11/05/12 12:22	91-20-3	
2-Propanol	**11.3**	ug/m3	1.0	0.19	2.1		11/05/12 12:22	67-63-0	
Propylene	ND	ug/m3	0.74	0.37	2.1		11/05/12 12:22	115-07-1	
Styrene	**5.0**	ug/m3	1.8	0.91	2.1		11/05/12 12:22	100-42-5	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Sample: A-074922-101812-CM-02992-2 **Lab ID: 60131664002** Collected: 10/18/12 14:20 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.5	0.39	2.1		11/05/12 12:22	79-34-5	
Tetrachloroethene	ND	ug/m3	1.4	0.72	2.1		11/05/12 12:22	127-18-4	
Tetrahydrofuran	**9170**	ug/m3	340	170	567.48		11/05/12 14:47	109-99-9	A3
THC as Gas	**14500**	ug/m3	128	63.8	2.1		11/05/12 12:22		
Toluene	**49.6**	ug/m3	1.6	0.80	2.1		11/05/12 12:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	3.2	1.6	2.1		11/05/12 12:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2.3	1.2	2.1		11/05/12 12:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.2	0.58	2.1		11/05/12 12:22	79-00-5	
Trichloroethene	ND	ug/m3	1.2	0.57	2.1		11/05/12 12:22	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2.4	0.47	2.1		11/05/12 12:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.4	1.7	2.1		11/05/12 12:22	76-13-1	
1,2,4-Trimethylbenzene	**16.6**	ug/m3	2.1	1.0	2.1		11/05/12 12:22	95-63-6	
1,3,5-Trimethylbenzene	**7.5**	ug/m3	2.1	0.27	2.1		11/05/12 12:22	108-67-8	
Vinyl acetate	ND	ug/m3	1.5	0.75	2.1		11/05/12 12:22	108-05-4	
Vinyl chloride	ND	ug/m3	0.55	0.27	2.1		11/05/12 12:22	75-01-4	
m&p-Xylene	**21.1**	ug/m3	3.7	1.9	2.1		11/05/12 12:22	179601-23-1	
o-Xylene	ND	ug/m3	1.8	0.27	2.1		11/05/12 12:22	95-47-6	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: AIR/16105
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60131664002

METHOD BLANK: 1325781
Matrix: Air
Associated Lab Samples: 60131664002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	11/05/12 11:53	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	11/05/12 11:53	
1,1,2-Trichloroethane	ug/m3	ND	0.55	11/05/12 11:53	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	11/05/12 11:53	
1,1-Dichloroethane	ug/m3	ND	0.82	11/05/12 11:53	
1,1-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	11/05/12 11:53	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	11/05/12 11:53	
1,2-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,2-Dichloroethane	ug/m3	ND	0.41	11/05/12 11:53	
1,2-Dichloropropane	ug/m3	ND	0.94	11/05/12 11:53	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,3-Butadiene	ug/m3	ND	0.45	11/05/12 11:53	
1,3-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,4-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
2-Butanone (MEK)	ug/m3	ND	0.60	11/05/12 11:53	
2-Hexanone	ug/m3	ND	0.83	11/05/12 11:53	
2-Propanol	ug/m3	ND	0.50	11/05/12 11:53	
4-Ethyltoluene	ug/m3	ND	1.0	11/05/12 11:53	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	11/05/12 11:53	
Acetone	ug/m3	ND	0.48	11/05/12 11:53	
Benzene	ug/m3	ND	0.32	11/05/12 11:53	
Benzyl chloride	ug/m3	ND	1.0	11/05/12 11:53	
Bromodichloromethane	ug/m3	ND	1.4	11/05/12 11:53	
Bromoform	ug/m3	ND	2.1	11/05/12 11:53	
Bromomethane	ug/m3	ND	0.79	11/05/12 11:53	
Carbon disulfide	ug/m3	ND	0.63	11/05/12 11:53	
Carbon tetrachloride	ug/m3	ND	0.64	11/05/12 11:53	
Chlorobenzene	ug/m3	ND	0.94	11/05/12 11:53	
Chloroethane	ug/m3	ND	0.54	11/05/12 11:53	
Chloroform	ug/m3	ND	0.99	11/05/12 11:53	
Chloromethane	ug/m3	ND	0.42	11/05/12 11:53	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Cyclohexane	ug/m3	ND	0.70	11/05/12 11:53	
Dibromochloromethane	ug/m3	ND	1.7	11/05/12 11:53	
Dichlorodifluoromethane	ug/m3	ND	1.0	11/05/12 11:53	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	11/05/12 11:53	
Ethanol	ug/m3	ND	0.38	11/05/12 11:53	
Ethyl acetate	ug/m3	ND	0.73	11/05/12 11:53	
Ethylbenzene	ug/m3	ND	0.88	11/05/12 11:53	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	11/05/12 11:53	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

METHOD BLANK: 1325781 Matrix: Air

Associated Lab Samples: 60131664002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	11/05/12 11:53	
Methyl-tert-butyl ether	ug/m3	ND	0.73	11/05/12 11:53	
Methylene Chloride	ug/m3	ND	0.71	11/05/12 11:53	
n-Heptane	ug/m3	ND	0.83	11/05/12 11:53	
n-Hexane	ug/m3	ND	0.72	11/05/12 11:53	
Naphthalene	ug/m3	ND	1.1	11/05/12 11:53	
o-Xylene	ug/m3	ND	0.88	11/05/12 11:53	
Propylene	ug/m3	ND	0.35	11/05/12 11:53	
Styrene	ug/m3	ND	0.87	11/05/12 11:53	
Tetrachloroethene	ug/m3	ND	0.69	11/05/12 11:53	
Tetrahydrofuran	ug/m3	ND	0.60	11/05/12 11:53	
THC as Gas	ug/m3	ND	60.8	11/05/12 11:53	
Toluene	ug/m3	ND	0.77	11/05/12 11:53	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Trichloroethene	ug/m3	ND	0.55	11/05/12 11:53	
Trichlorofluoromethane	ug/m3	ND	1.1	11/05/12 11:53	
Vinyl acetate	ug/m3	ND	0.72	11/05/12 11:53	
Vinyl chloride	ug/m3	ND	0.26	11/05/12 11:53	

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.0	115	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	53.6	97	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.2	104	65-132	
1,1-Dichloroethane	ug/m3	41.2	41.6	101	67-132	
1,1-Dichloroethene	ug/m3	40.3	40.1	99	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	82.3	109	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	48.7	97	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.7	106	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	67.3	110	71-132	
1,2-Dichloroethane	ug/m3	41.2	45.3	110	70-131	
1,2-Dichloropropane	ug/m3	47	53.3	113	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	47.2	94	70-133	
1,3-Butadiene	ug/m3	22.5	22.1	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	66.8	109	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	60.7	99	72-131	
2-Butanone (MEK)	ug/m3	30	29.2	97	69-131	
2-Hexanone	ug/m3	41.7	40.0	96	71-134	
2-Propanol	ug/m3	25	27.2	109	72-132	
4-Ethyltoluene	ug/m3	50	51.0	102	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.4	95	69-135	
Acetone	ug/m3	24.2	23.5	97	61-139	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	36.6	113	69-134	
Benzyl chloride	ug/m3	52.5	55.9	107	70-129	
Bromodichloromethane	ug/m3	68.2	78.4	115	71-130	
Bromoform	ug/m3	105	106	101	70-130	
Bromomethane	ug/m3	39.5	40.5	103	69-125	
Carbon disulfide	ug/m3	31.7	30.0	95	66-131	
Carbon tetrachloride	ug/m3	64	73.9	115	68-128	
Chlorobenzene	ug/m3	46.8	49.6	106	75-128	
Chloroethane	ug/m3	26.8	27.3	102	66-131	
Chloroform	ug/m3	49.7	55.4	112	68-132	
Chloromethane	ug/m3	21	20.4	97	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	42.2	105	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	45.3	98	74-134	
Cyclohexane	ug/m3	35	40.3	115	67-136	
Dibromochloromethane	ug/m3	86.6	88.1	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	51.7	103	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	72.4	102	66-130	
Ethanol	ug/m3	19.2	17.0	89	69-131	
Ethyl acetate	ug/m3	36.6	41.3	113	71-131	
Ethylbenzene	ug/m3	44.2	43.9	99	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	74.6	69	41-150	
m&p-Xylene	ug/m3	88.3	86.4	98	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	40.6	111	70-132	
Methylene Chloride	ug/m3	35.3	31.9	90	73-134	
n-Heptane	ug/m3	41.7	40.0	96	70-134	
n-Hexane	ug/m3	35.8	34.7	97	65-133	
Naphthalene	ug/m3	53.3	68.7	129	57-150	
o-Xylene	ug/m3	44.2	42.7	97	69-138	
Propylene	ug/m3	17.5	18.4	105	70-134	
Styrene	ug/m3	43.3	44.0	102	72-132	
Tetrachloroethene	ug/m3	69	81.1	118	70-130	
Tetrahydrofuran	ug/m3	30	29.3	98	74-128	
THC as Gas	ug/m3	3030	3190	105	66-131	
Toluene	ug/m3	38.3	37.8	99	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	43.1	107	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.5	99	73-130	
Trichloroethene	ug/m3	54.6	67.3	123	72-131	
Trichlorofluoromethane	ug/m3	57.1	57.4	100	66-129	
Vinyl acetate	ug/m3	35.8	32.5	91	71-131	
Vinyl chloride	ug/m3	26	26.6	102	70-131	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: GCV/4139
QC Batch Method: EPA 5030B/8015B
Associated Lab Samples: 60131664001

Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics

METHOD BLANK: 1088957 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/28/12 11:24	
4-Bromofluorobenzene (S)	%	90	70-130	10/28/12 11:24	

LABORATORY CONTROL SAMPLE: 1088958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	0.88	88	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1088959 1088960

Parameter	Units	60131493003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/L	ND	1	1	0.82	1.0	82	103	70-130	23	30	
4-Bromofluorobenzene (S)	%						95	98	70-130			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: MPRP/20163
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60131664001

METHOD BLANK: 1086308 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/27/12 13:18	
Calcium, Dissolved	ug/L	ND	100	10/27/12 13:18	
Magnesium, Dissolved	ug/L	ND	50.0	10/27/12 13:18	
Potassium, Dissolved	ug/L	ND	500	10/27/12 13:18	
Sodium, Dissolved	ug/L	ND	500	10/27/12 13:18	

LABORATORY CONTROL SAMPLE: 1086309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	936	94	80-120	
Calcium, Dissolved	ug/L	10000	9710	97	80-120	
Magnesium, Dissolved	ug/L	10000	9280	93	80-120	
Potassium, Dissolved	ug/L	10000	10100	101	80-120	
Sodium, Dissolved	ug/L	10000	9730	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1086310 1086311

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	ND	1000	1000	1030	1020	95	93	75-125	1	20	
Calcium, Dissolved	ug/L	106000	10000	10000	116000	115000	92	88	75-125	0	20	
Magnesium, Dissolved	ug/L	3020	10000	10000	12400	12500	94	94	75-125	1	20	
Potassium, Dissolved	ug/L	2020	10000	10000	12300	12400	103	104	75-125	1	20	
Sodium, Dissolved	ug/L	166000	10000	10000	172000	169000	62	35	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: MSV/49641
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60131664001

METHOD BLANK: 1088977
Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/28/12 14:09	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/28/12 14:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/28/12 14:09	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/28/12 14:09	
1,1-Dichloroethane	ug/L	ND	1.0	10/28/12 14:09	
1,1-Dichloroethene	ug/L	ND	1.0	10/28/12 14:09	
1,1-Dichloropropene	ug/L	ND	1.0	10/28/12 14:09	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/28/12 14:09	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/28/12 14:09	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/28/12 14:09	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/28/12 14:09	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/28/12 14:09	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/28/12 14:09	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/28/12 14:09	
1,2-Dichloroethane	ug/L	ND	1.0	10/28/12 14:09	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/28/12 14:09	
1,2-Dichloropropane	ug/L	ND	1.0	10/28/12 14:09	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/28/12 14:09	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/28/12 14:09	
1,3-Dichloropropane	ug/L	ND	1.0	10/28/12 14:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/28/12 14:09	
2,2-Dichloropropane	ug/L	ND	1.0	10/28/12 14:09	
2-Butanone (MEK)	ug/L	ND	10.0	10/28/12 14:09	
2-Chlorotoluene	ug/L	ND	1.0	10/28/12 14:09	
2-Hexanone	ug/L	ND	10.0	10/28/12 14:09	
4-Chlorotoluene	ug/L	ND	1.0	10/28/12 14:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/28/12 14:09	
Acetone	ug/L	ND	10.0	10/28/12 14:09	
Benzene	ug/L	ND	1.0	10/28/12 14:09	
Bromobenzene	ug/L	ND	1.0	10/28/12 14:09	
Bromochloromethane	ug/L	ND	1.0	10/28/12 14:09	
Bromodichloromethane	ug/L	ND	1.0	10/28/12 14:09	
Bromoform	ug/L	ND	1.0	10/28/12 14:09	
Bromomethane	ug/L	ND	5.0	10/28/12 14:09	
Carbon disulfide	ug/L	ND	5.0	10/28/12 14:09	
Carbon tetrachloride	ug/L	ND	1.0	10/28/12 14:09	
Chlorobenzene	ug/L	ND	1.0	10/28/12 14:09	
Chloroethane	ug/L	ND	1.0	10/28/12 14:09	
Chloroform	ug/L	ND	1.0	10/28/12 14:09	
Chloromethane	ug/L	ND	1.0	10/28/12 14:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/28/12 14:09	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/28/12 14:09	
Dibromochloromethane	ug/L	ND	1.0	10/28/12 14:09	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

METHOD BLANK: 1088977 Matrix: Water

Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	10/28/12 14:09	
Dichlorodifluoromethane	ug/L	ND	1.0	10/28/12 14:09	
Ethylbenzene	ug/L	ND	1.0	10/28/12 14:09	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/28/12 14:09	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/28/12 14:09	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/28/12 14:09	
Methylene chloride	ug/L	ND	1.0	10/28/12 14:09	
n-Butylbenzene	ug/L	ND	1.0	10/28/12 14:09	
n-Propylbenzene	ug/L	ND	1.0	10/28/12 14:09	
Naphthalene	ug/L	ND	10.0	10/28/12 14:09	
p-Isopropyltoluene	ug/L	ND	1.0	10/28/12 14:09	
sec-Butylbenzene	ug/L	ND	1.0	10/28/12 14:09	
Styrene	ug/L	ND	1.0	10/28/12 14:09	
tert-Butylbenzene	ug/L	ND	1.0	10/28/12 14:09	
Tetrachloroethene	ug/L	ND	1.0	10/28/12 14:09	
Toluene	ug/L	ND	1.0	10/28/12 14:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/28/12 14:09	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/28/12 14:09	
Trichloroethene	ug/L	ND	1.0	10/28/12 14:09	
Trichlorofluoromethane	ug/L	ND	1.0	10/28/12 14:09	
Vinyl chloride	ug/L	ND	1.0	10/28/12 14:09	
Xylene (Total)	ug/L	ND	3.0	10/28/12 14:09	
1,2-Dichloroethane-d4 (S)	%	97	80-120	10/28/12 14:09	
4-Bromofluorobenzene (S)	%	105	80-120	10/28/12 14:09	
Dibromofluoromethane (S)	%	99	80-120	10/28/12 14:09	
Toluene-d8 (S)	%	102	80-120	10/28/12 14:09	

LABORATORY CONTROL SAMPLE: 1088978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.3	96	79-121	
1,1,1-Trichloroethane	ug/L	20	19.9	100	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	92	71-121	
1,1,2-Trichloroethane	ug/L	20	19.0	95	78-120	
1,1-Dichloroethane	ug/L	20	19.2	96	74-120	
1,1-Dichloroethene	ug/L	20	19.9	100	68-120	
1,1-Dichloropropene	ug/L	20	20.8	104	78-120	
1,2,3-Trichlorobenzene	ug/L	20	21.5	108	70-129	
1,2,3-Trichloropropane	ug/L	20	20.6	103	74-121	
1,2,4-Trichlorobenzene	ug/L	20	18.7	94	76-123	
1,2,4-Trimethylbenzene	ug/L	20	18.7	93	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	98	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	76-125	
1,2-Dichlorobenzene	ug/L	20	19.0	95	80-120	
1,2-Dichloroethane	ug/L	20	20.0	100	72-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

LABORATORY CONTROL SAMPLE: 1088978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	38.8	97	78-120	
1,2-Dichloropropane	ug/L	20	20.3	102	78-120	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	75-120	
1,3-Dichlorobenzene	ug/L	20	18.8	94	79-120	
1,3-Dichloropropane	ug/L	20	18.8	94	75-120	
1,4-Dichlorobenzene	ug/L	20	19.8	99	80-120	
2,2-Dichloropropane	ug/L	20	19.9	100	54-132	
2-Butanone (MEK)	ug/L	100	103	103	40-160	
2-Chlorotoluene	ug/L	20	19.0	95	78-120	
2-Hexanone	ug/L	100	95.5	95	40-160	
4-Chlorotoluene	ug/L	20	18.9	95	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5	97	65-126	
Acetone	ug/L	100	113	113	40-160	
Benzene	ug/L	20	20.1	100	74-123	
Bromobenzene	ug/L	20	18.6	93	79-120	
Bromochloromethane	ug/L	20	19.7	98	75-120	
Bromodichloromethane	ug/L	20	18.0	90	74-120	
Bromoform	ug/L	20	18.4	92	70-123	
Bromomethane	ug/L	20	22.4	112	40-158	
Carbon disulfide	ug/L	20	18.5	92	67-135	
Carbon tetrachloride	ug/L	20	20.3	102	74-126	
Chlorobenzene	ug/L	20	19.0	95	80-120	
Chloroethane	ug/L	20	22.9	115	60-144	
Chloroform	ug/L	20	19.2	96	77-120	
Chloromethane	ug/L	20	18.3	92	40-142	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-120	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	73-121	
Dibromochloromethane	ug/L	20	19.3	96	77-122	
Dibromomethane	ug/L	20	19.3	96	76-120	
Dichlorodifluoromethane	ug/L	20	11.7	59	40-160	
Ethylbenzene	ug/L	20	19.4	97	76-123	
Hexachloro-1,3-butadiene	ug/L	20	18.4	92	72-124	
Isopropylbenzene (Cumene)	ug/L	20	21.1	105	80-126	
Methyl-tert-butyl ether	ug/L	20	19.8	99	67-125	
Methylene chloride	ug/L	20	19.9	99	72-127	
n-Butylbenzene	ug/L	20	19.1	95	76-125	
n-Propylbenzene	ug/L	20	19.6	98	77-120	
Naphthalene	ug/L	20	19.2	96	63-128	
p-Isopropyltoluene	ug/L	20	18.9	94	77-121	
sec-Butylbenzene	ug/L	20	19.0	95	77-122	
Styrene	ug/L	20	18.7	93	79-120	
tert-Butylbenzene	ug/L	20	19.5	98	75-124	
Tetrachloroethene	ug/L	20	20.5	102	78-121	
Toluene	ug/L	20	20.3	101	75-123	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	80-129	
trans-1,3-Dichloropropene	ug/L	20	20.7	103	77-122	
Trichloroethene	ug/L	20	19.1	95	74-120	
Trichlorofluoromethane	ug/L	20	22.2	111	69-122	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

LABORATORY CONTROL SAMPLE: 1088978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	21.3	107	50-140	
Xylene (Total)	ug/L	60	58.6	98	76-123	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: OEXT/35658
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60131664001

METHOD BLANK: 1085694 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/30/12 19:03	
n-Tetracosane (S)	%	63	35-120	10/30/12 19:03	CH
p-Terphenyl (S)	%	66	35-121	10/30/12 19:03	

LABORATORY CONTROL SAMPLE: 1085695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	25	20.9	84	56-120	
n-Tetracosane (S)	%			86	35-120	CH
p-Terphenyl (S)	%			87	35-121	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: WET/37848
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60131664001

METHOD BLANK: 1085484 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/24/12 10:56	

LABORATORY CONTROL SAMPLE: 1085485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	493	99	90-110	

SAMPLE DUPLICATE: 1085486

Parameter	Units	60131463001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	223	227	2	9	

SAMPLE DUPLICATE: 1085487

Parameter	Units	60131643002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	499	522	5	9	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: WET/37912
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60131664001

METHOD BLANK: 1087567 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/26/12 11:21	

SAMPLE DUPLICATE: 1087568

Parameter	Units	60131699001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6520	6860	5	17	

SAMPLE DUPLICATE: 1087569

Parameter	Units	60131643001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2940	2080	35	17	D6

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: WET/37837
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60131664001

METHOD BLANK: 1085237 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/23/12 19:09	

LABORATORY CONTROL SAMPLE: 1085238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 1085239

Parameter	Units	60131463001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	98	75-125	

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(913)599-5665

QUALITY CONTROL DATA

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

QC Batch: WETA/22233
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60131664001

METHOD BLANK: 1088972 Matrix: Water
Associated Lab Samples: 60131664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	10/29/12 15:29	
Chloride	mg/L	ND	1.0	10/29/12 15:29	
Sulfate	mg/L	ND	1.0	10/29/12 15:29	

LABORATORY CONTROL SAMPLE: 1088973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.6	91	90-110	
Chloride	mg/L	5	4.6	92	90-110	
Sulfate	mg/L	5	4.6	93	90-110	

MATRIX SPIKE SAMPLE: 1088974

Parameter	Units	60131642001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	10	9.4	85	75-119	
Chloride	mg/L	34.4	10	42.4	80	64-118	
Sulfate	mg/L	19.1	10	27.1	80	61-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1088975 1088976

Parameter	Units	60131642002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	10	10	9.0	9.5	81	87	75-119	6	10	
Chloride	mg/L	8.6	10	10	16.5	16.9	80	83	64-118	2	12	
Sulfate	mg/L	23.8	10	10	32.4	32.1	86	83	61-119	1	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: OEXT/35658

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/49641

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074922 AREA 6 02992-2
Pace Project No.: 60131664

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60131664002	**A-074922-101812-CM-02992-2**	TO-15	AIR/16105		
60131664001	**GW-074922-101912-CM-02992-2**	EPA 3510C	OEXT/35658	EPA 8015B	GCSV/13415
60131664001	**GW-074922-101912-CM-02992-2**	EPA 5030B/8015B	GCV/4139		
60131664001	**GW-074922-101912-CM-02992-2**	EPA 3010	MPRP/20163	EPA 6010	ICP/16509
60131664001	**GW-074922-101912-CM-02992-2**	EPA 5030B/8260	MSV/49641		
60131664001	**GW-074922-101912-CM-02992-2**	SM 2320B	WET/37848		
60131664001	**GW-074922-101912-CM-02992-2**	SM 2540C	WET/37912		
60131664001	**GW-074922-101912-CM-02992-2**	SM 4500-S-2 D	WET/37837		
60131664001	**GW-074922-101912-CM-02992-2**	EPA 300.0	WETA/22233		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 312967 Job Number: 19559

Submitter Sample Name: GW-074922-101912-CM-02992-2

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan Basin, NM

Depth/Formation:

Container Type: IsoBag

Sample Collected: 10/19/2012 Results Reported: 11/13/2012

δD of water	----------	-102.8 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-13.61 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks: Nitrates not analyzed for isotopes due to insufficient concentration.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #:	313510	Job #:	19649
Sample Name/Number:	GW-074922-101912-CM-02992-2		
Company:	Pace Analytical		
Date Sampled:	10/19/2012		
Container:	IsoBag		
Field/Site Name:	074922 - Area 6		
Location:	San Juan Basin, NM		
Formation/Depth:			
Sampling Point:			
Date Received:	10/26/2012	Date Reported:	10/30/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	na			
Hydrogen	nd			
Argon	1.33			
Oxygen	18.74			
Nitrogen	71.59			
Carbon Dioxide	7.68			
Methane	0.651			
Ethane	0.0086			
Ethylene	nd			
Propane	0.0004			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.76
Concentration of methane in water = 0.22 cc/L ; 0.15 ppm
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 313515 Job #: 19650
Sample Name: A-074922-101812-CM-02992-2 Co. Lab#:
Company: Pace Analytical
Date Sampled: 10/18/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location:
Formation/Depth:
Sampling Point:
Date Received: 10/26/2012 Date Reported: 11/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	nd			
Hydrogen	nd			
Argon	0.933			
Oxygen	20.13			
Nitrogen	78.79			-0.4
Carbon Dioxide	0.14			
Methane	0.0034			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.000

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

AirTECHNOLOGY
Laboratories, Inc.

October 29, 2012

ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Pace Analytical
ATTN: Alice Flanagan
9608 Loiret Blvd.
Lenexa, KS 66219

LABORATORY TEST RESULTS

Project Reference: 60131664; 074922 Area 6 02992-2
Lab Number: D102205-01

Enclosed are results for sample(s) received 10/22/12 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

740

Chain of Custody

D102205-01

Pace Analytical
www.pacelabs.com

Workorder: 60131664 **Workorder Name:** 074922 AREA 6 02992-2 **Results Requested** 10/31/2012

Report / Invoice To	Subcontract To
Alice Flanagan Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Email: alice.flanagan@pacelabs.com	P.O. SUB-6523

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Acetylene ASTM D1946	Requested Analysis: Hydrogen sulfide EPA 15/16	LAB USE ONLY
1	A-074922-101812-CM-02992-2	10/18/2012 14:20	660131664002	Air	1	X	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	10/18/12 1500
2				
3				

Comments

Cooler Temperature on Receipt °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Package 39 of 48

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 02992-2
Project No.: 60131664
Date Received: 10/22/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	**D102205-01**							
Client Sample I.D.:	**A-074922-101812-CM-02992-2 / 60131664002**							
Date Sampled:	**10/18/12**							
Date Analyzed:	**10/23/12**							
QC Batch No.:	**121023GC3A1**							
Analyst Initials:	**VM**							
Dilution Factor:	**2.2**							
ANALYTE	**Result ppmv**	**RL ppmv**						
Hydrogen Sulfide	ND	0.44						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ **Date** 10/29/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 121023GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/23/12		10/23/12		10/23/12			
Analyst Initials:	VM		VM		VM			
Datafile:	23oct003		23oct001		23oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	84	70-130%	84	70-130%	0.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 10/29/12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 02992-2
Project No.: 60131664
Date Received: 10/22/12
Matrix: Air
Reporting Units: ppmv

ASTM D1946

Lab No.:	D102205-01							
Client Sample I.D.:	A-074922-101812-CM-02992-2 / 60131664002							
Date Sampled:	10/18/12							
Date Analyzed:	10/25/12							
QC Batch No.:	121025GC8A1							
Analyst Initials:	MJ							
Dilution Factor:	1.0							
ANALYTE	Result ppmv	RL ppmv						
Acetylene	ND	10						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 10-30-12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 121025GC8A1
Matrix: Air
Units: ppmv

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/25/12		10/25/12		10/25/12			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	25oct004		25oct001		25oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Acetylene	ND	10	92	70-130%	90	70-130%	2.6	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 10-30-12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

Sub - ~~[illegible]~~ 6523

60131664

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
Standard ☒ (N) 48 hours ☐
Same Day ☐ 72 hours ☐
24 hours ☐ 96 hours ☐
Other:

DELIVERABLES
EDD ☐
EDF ☐
LEVEL 3 ☐
LEVEL 4 ☐

PAGE: 1 OF 1

Condition upon receipt:
Sealed Yes ☐ No ☐
Intact Yes ☐ No ☐
Chilled _____ deg C

Project No.:	074922
Project Name:	Area 6
Report To:	Christine Mathews
Company:	CRA
Street:	6121 Indian School Rd NE #200
City/State/Zip:	Albuquerque, NM 87110
Phone& Fax:	505-884-0672
e-mail:	cmathews@craworld.com

BILLING
P.O. No.:
Bill to: Alice Flanagan Pace Lenexa

ANALYSIS REQUEST
ASTM D1946 Acetylene
EPA 15/16 Hydrogen Sulfide

Lab ID
10131664002

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	ASTM D1946 Acetylene	EPA 15/16 Hydrogen Sulfide
D102205-01	A-074922-101812-CM-02792-2	10.18.12	1420	Air	Silco	X	X

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME	
SAMPLED BY Christine Mathews	COMPANY CRA	DATE/TIME 10/18/12	1420
RELINQUISHED BY	DATE/TIME 10/19/12	RECEIVED BY	DATE/TIME
RELINQUISHED BY Fed Ex	DATE/TIME 10/22/12 1245	RECEIVED BY DON THOMASON	DATE/TIME 10/22/12 1245
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME

COMMENTS
Please report each Chain . . Separately and send to Alice Flanagan of Pace Lenexa

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

60131664

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Send Data and Invoice to

Name: Christine Matthews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMatthews@Craworld.com

Project: Area 6 074922
Location: San Juan Basin, NM
Sampled by: Christine Matthews

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: EPA Mass Spec	Groundwater Oxygen, Hydrogen & Nitrogen Isotopes	Groundwater Dissolved Methane	Comments
	~~A-074922-101812-CM-02992-2~~	~~10-18-12~~	X			~~Please analyze for Carbon/hydrogen isotopes C1 and C2. Nitrogen isotopes, Hydrocarbons/Fixed gases, Specific gravity, BTU/cu ft in air samples Mass Spec.~~
	GW-074922-101912-CM-02992-2	10-19-12		X	X	~~For groundwater~~

CM 10-19-12

* report each chain individually
-Send to Alice Flanagan of Pace

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Christine Matthews	CRA	10/19/12	1630
Received by	Isotech	Isotech	10/22/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
ISOTECH LABORATORIES INC

1308 Parkland Court Champaign, IL 61821 • (877) 362-4190 • www.isotechlabs.com

60 1311664

Send Data and Invoice to

Name: Christine Matteucs
Company: CRA
Address: 6121 Indian School #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: CMatteucs@crawrld.com

Project: Area 6 074922
Purchase Order #:
Location: San Juan Basin, NM
Sampled By: Christine Matteucs
Circle one: Standard
Priority
Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analysis Requested: Mass Spec			Comments
	A-074922-101812-CM-082922-2	10-18-12	1420	X			*please analyze for Carbon/hydrogen isotopes C1 & C2, Nitrogen isotopes, Hydrocarbons/Fixed gases, Specific gravity, BTU/cuFT

* report each chain individually - send to Alice Flanagan of Pace

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	[signature]	CRA	10-22-12	1600
Received by	Peter Colombo	Isotech	10/23/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
1380G Plaza Office Building
315 Johnstone Avenue
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

Mr. Leo M. Olguin
32 NM 173
Aztec, NM 87410

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

February 18, 2013

Re: Water Well Sample Analytical Results

Dear Mr. Olguin:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on October 16, 2012, from the water well on your property located on Road 4049, in San Juan County, New Mexico. Summary tables are included along with the laboratory reports. The summary table for water results depicts New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your well for the October 2012 sampling event as well as the prior May 2012 sampling event. Note that the only exceedances of established NMWQCC standards are for total dissolved solids, chloride and sulfate. This is typical of many water wells in the region.

As you know, ConocoPhillips initially contacted you seeking permission to sample your well in response to methane and hydrogen sulfide found in a vicinity water well. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the possible source(s) for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that methane was detected at a very low concentration of 13 micrograms per liter (µg/L) in a water sample from your well during the October 2012 sampling. This is less than the 327 µg/L of methane measured in a water sample from your well in May 2012.

Since your well was sealed at the surface, ConocoPhillips' contractor was not able to retrieve a "headspace" sample from the well. Without the headspace sample we have limited options for analyzing any gases in the air which might otherwise allow us to determine the potential source for the methane encountered in the water sample from your well.

ConocoPhillips does not plan to conduct any more sampling of your water well due to the very small amount of methane detected and the distance of your well from the primary investigation area. As explained in the August 17, 2012 letter to you from ConocoPhillips, it is not uncommon for small amounts of methane to appear in water wells in the San Juan Basin due to shallow coal seams and organic-rich shales.

The results of the October 2012 sampling event for your water well have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

October 31, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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Lenexa, KS 66219
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CERTIFICATIONS

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60131355001	GW-074922-101612-CM-03897PI-2	Water	10/16/12 10:10	10/17/12 08:35

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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60131355001	**GW-074922-101612-CM-03897PI-2**	EPA 8015B	NAW	3	PASI-K
		EPA 5030B/8015B	SDR	3	PASI-K
		EPA 6010	JGP, SMW	5	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		SM 2320B	DJR	1	PASI-K
		SM 2540C	FJF	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	AJM	3	PASI-K

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/4130

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

760

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/20061

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131355001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1081813)
  - Calcium, Dissolved
  - Sodium, Dissolved
- MSD (Lab ID: 1081814)
  - Calcium, Dissolved
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: WET/37728

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 1081732)
  - Total Dissolved Solids

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: October 31, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/22188

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131349001,60131355001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1085820)
  - Bromide
- MSD (Lab ID: 1085821)
  - Bromide

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Sample: GW-074922-101612-CM-03897PI-2 **Lab ID: 60131355001** Collected: 10/16/12 10:10 Received: 10/17/12 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.16	1	10/19/12 00:00	10/19/12 19:51		
Surrogates									
p-Terphenyl (S)	71	%	35-121		1	10/19/12 00:00	10/19/12 19:51	92-94-4	
n-Tetracosane (S)	72	%	35-120		1	10/19/12 00:00	10/19/12 19:51	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	ND	mg/L	0.50	0.12	1		10/22/12 18:47		
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/22/12 18:47	460-00-4	
Preservation pH	**1.0**				1		10/22/12 18:47		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**331**	ug/L	100	1.8	1	10/18/12 16:00	10/20/12 16:31	7440-42-8	
Calcium, Dissolved	**379000**	ug/L	100	35.8	1	10/18/12 16:00	10/20/12 16:31	7440-70-2	M1
Magnesium, Dissolved	**12300**	ug/L	250	86.0	5	10/18/12 16:00	10/25/12 14:54	7439-95-4	
Potassium, Dissolved	**4560**	ug/L	2500	320	5	10/18/12 16:00	10/25/12 14:54	7440-09-7	
Sodium, Dissolved	**1750000**	ug/L	2500	200	5	10/18/12 16:00	10/25/12 14:54	7440-23-5	M1
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.1	1		10/23/12 03:34	67-64-1	
Benzene	ND	ug/L	1.0	0.098	1		10/23/12 03:34	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.14	1		10/23/12 03:34	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.35	1		10/23/12 03:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.13	1		10/23/12 03:34	75-27-4	
Bromoform	ND	ug/L	1.0	0.13	1		10/23/12 03:34	75-25-2	
Bromomethane	ND	ug/L	5.0	0.17	1		10/23/12 03:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	3.2	1		10/23/12 03:34	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.047	1		10/23/12 03:34	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.075	1		10/23/12 03:34	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.46	1		10/23/12 03:34	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.060	1		10/23/12 03:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.097	1		10/23/12 03:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.12	1		10/23/12 03:34	108-90-7	
Chloroethane	ND	ug/L	1.0	0.27	1		10/23/12 03:34	75-00-3	
Chloroform	ND	ug/L	1.0	0.13	1		10/23/12 03:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.076	1		10/23/12 03:34	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.062	1		10/23/12 03:34	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.12	1		10/23/12 03:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.80	1		10/23/12 03:34	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.18	1		10/23/12 03:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.18	1		10/23/12 03:34	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/23/12 03:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.15	1		10/23/12 03:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.18	1		10/23/12 03:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.092	1		10/23/12 03:34	106-46-7	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Sample: GW-074922-101612-CM-03897PI-2 **Lab ID: 60131355001** Collected: 10/16/12 10:10 Received: 10/17/12 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.097	1		10/23/12 03:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.18	1		10/23/12 03:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/23/12 03:34	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.31	1		10/23/12 03:34	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.18	1		10/23/12 03:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.15	1		10/23/12 03:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.23	1		10/23/12 03:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.14	1		10/23/12 03:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.16	1		10/23/12 03:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.38	1		10/23/12 03:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.049	1		10/23/12 03:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.079	1		10/23/12 03:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/23/12 03:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.23	1		10/23/12 03:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.22	1		10/23/12 03:34	87-68-3	
2-Hexanone	ND	ug/L	10.0	2.4	1		10/23/12 03:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.11	1		10/23/12 03:34	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.11	1		10/23/12 03:34	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.24	1		10/23/12 03:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.46	1		10/23/12 03:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.083	1		10/23/12 03:34	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.11	1		10/23/12 03:34	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.088	1		10/23/12 03:34	103-65-1	
Styrene	ND	ug/L	1.0	0.14	1		10/23/12 03:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.21	1		10/23/12 03:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.086	1		10/23/12 03:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.13	1		10/23/12 03:34	127-18-4	
Toluene	ND	ug/L	1.0	0.15	1		10/23/12 03:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.22	1		10/23/12 03:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.12	1		10/23/12 03:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.071	1		10/23/12 03:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		10/23/12 03:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.12	1		10/23/12 03:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.067	1		10/23/12 03:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.32	1		10/23/12 03:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.068	1		10/23/12 03:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.076	1		10/23/12 03:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.12	1		10/23/12 03:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.41	1		10/23/12 03:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		10/23/12 03:34	460-00-4	
Dibromofluoromethane (S)	97	%	80-120		1		10/23/12 03:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	93	%	80-120		1		10/23/12 03:34	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		10/23/12 03:34	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/23/12 03:34		

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ANALYTICAL RESULTS

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Sample: GW-074922-101612-CM-03897PI-2 **Lab ID: 60131355001** Collected: 10/16/12 10:10 Received: 10/17/12 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**73.5**	mg/L	20.0	1.2	1		10/23/12 08:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**7860**	mg/L	5.0	5.0	1		10/18/12 11:27		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		10/23/12 19:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	**2.4**	mg/L	1.0	0.078	1		10/24/12 19:31	24959-67-9	M1
Chloride	**319**	mg/L	25.0	12.5	25		10/24/12 20:57	16887-00-6	
Sulfate	**5290**	mg/L	500	60.0	500		10/24/12 21:15	14808-79-8	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: GCV/4130
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60131355001

METHOD BLANK: 1084707
Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/22/12 11:53	
4-Bromofluorobenzene (S)	%	93	70-130	10/22/12 11:53	

LABORATORY CONTROL SAMPLE: 1084708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	1.2	124	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: MPRP/20061
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60131355001

METHOD BLANK: 1081811
Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/20/12 16:29	
Calcium, Dissolved	ug/L	ND	100	10/20/12 16:29	
Magnesium, Dissolved	ug/L	ND	50.0	10/25/12 14:32	
Potassium, Dissolved	ug/L	ND	500	10/25/12 14:32	
Sodium, Dissolved	ug/L	ND	500	10/25/12 14:32	

LABORATORY CONTROL SAMPLE: 1081812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	940	94	80-120	
Calcium, Dissolved	ug/L	10000	8960	90	80-120	
Magnesium, Dissolved	ug/L	10000	10000	100	80-120	
Potassium, Dissolved	ug/L	10000	10200	102	80-120	
Sodium, Dissolved	ug/L	10000	10400	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1081813 1081814

Parameter	Units	60131355001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	331	1000	1000	1310	1320	98	99	75-125	0	20	
Calcium, Dissolved	ug/L	379000	10000	10000	384000	385000	46	59	75-125	0	20	M1
Magnesium, Dissolved	ug/L	12300	10000	10000	21300	21500	91	93	75-125	1	20	
Potassium, Dissolved	ug/L	4560	10000	10000	15300	15800	107	112	75-125	3	20	
Sodium, Dissolved	ug/L	1750000	10000	10000	1770000	1790000	240	475	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: MSV/49450
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60131355001

METHOD BLANK: 1084742
Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1-Dichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,1-Dichloroethene	ug/L	ND	1.0	10/23/12 02:50	
1,1-Dichloropropene	ug/L	ND	1.0	10/23/12 02:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/23/12 02:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/23/12 02:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichloroethane	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/23/12 02:50	
1,2-Dichloropropane	ug/L	ND	1.0	10/23/12 02:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/23/12 02:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
1,3-Dichloropropane	ug/L	ND	1.0	10/23/12 02:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
2,2-Dichloropropane	ug/L	ND	1.0	10/23/12 02:50	
2-Butanone (MEK)	ug/L	ND	10.0	10/23/12 02:50	
2-Chlorotoluene	ug/L	ND	1.0	10/23/12 02:50	
2-Hexanone	ug/L	ND	10.0	10/23/12 02:50	
4-Chlorotoluene	ug/L	ND	1.0	10/23/12 02:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/23/12 02:50	
Acetone	ug/L	ND	10.0	10/23/12 02:50	
Benzene	ug/L	ND	1.0	10/23/12 02:50	
Bromobenzene	ug/L	ND	1.0	10/23/12 02:50	
Bromochloromethane	ug/L	ND	1.0	10/23/12 02:50	
Bromodichloromethane	ug/L	ND	1.0	10/23/12 02:50	
Bromoform	ug/L	ND	1.0	10/23/12 02:50	
Bromomethane	ug/L	ND	5.0	10/23/12 02:50	
Carbon disulfide	ug/L	ND	5.0	10/23/12 02:50	
Carbon tetrachloride	ug/L	ND	1.0	10/23/12 02:50	
Chlorobenzene	ug/L	ND	1.0	10/23/12 02:50	
Chloroethane	ug/L	ND	1.0	10/23/12 02:50	
Chloroform	ug/L	ND	1.0	10/23/12 02:50	
Chloromethane	ug/L	ND	1.0	10/23/12 02:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/23/12 02:50	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/23/12 02:50	
Dibromochloromethane	ug/L	ND	1.0	10/23/12 02:50	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

METHOD BLANK: 1084742 Matrix: Water

Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	10/23/12 02:50	
Dichlorodifluoromethane	ug/L	ND	1.0	10/23/12 02:50	
Ethylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/23/12 02:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/23/12 02:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/23/12 02:50	
Methylene chloride	ug/L	ND	1.0	10/23/12 02:50	
n-Butylbenzene	ug/L	ND	1.0	10/23/12 02:50	
n-Propylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Naphthalene	ug/L	ND	10.0	10/23/12 02:50	
p-Isopropyltoluene	ug/L	ND	1.0	10/23/12 02:50	
sec-Butylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Styrene	ug/L	ND	1.0	10/23/12 02:50	
tert-Butylbenzene	ug/L	ND	1.0	10/23/12 02:50	
Tetrachloroethene	ug/L	ND	1.0	10/23/12 02:50	
Toluene	ug/L	ND	1.0	10/23/12 02:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/23/12 02:50	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/23/12 02:50	
Trichloroethene	ug/L	ND	1.0	10/23/12 02:50	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/12 02:50	
Vinyl chloride	ug/L	ND	1.0	10/23/12 02:50	
Xylene (Total)	ug/L	ND	3.0	10/23/12 02:50	
1,2-Dichloroethane-d4 (S)	%	102	80-120	10/23/12 02:50	
4-Bromofluorobenzene (S)	%	99	80-120	10/23/12 02:50	
Dibromofluoromethane (S)	%	106	80-120	10/23/12 02:50	
Toluene-d8 (S)	%	97	80-120	10/23/12 02:50	

LABORATORY CONTROL SAMPLE: 1084743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	100	79-121	
1,1,1-Trichloroethane	ug/L	20	20.4	102	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	71-121	
1,1,2-Trichloroethane	ug/L	20	21.0	105	78-120	
1,1-Dichloroethane	ug/L	20	19.0	95	74-120	
1,1-Dichloroethene	ug/L	20	19.7	98	68-120	
1,1-Dichloropropene	ug/L	20	20.7	104	78-120	
1,2,3-Trichlorobenzene	ug/L	20	18.6	93	70-129	
1,2,3-Trichloropropane	ug/L	20	23.0	115	74-121	
1,2,4-Trichlorobenzene	ug/L	20	20.2	101	76-123	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	18.2	91	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	76-125	
1,2-Dichlorobenzene	ug/L	20	19.7	99	80-120	
1,2-Dichloroethane	ug/L	20	19.2	96	72-123	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

LABORATORY CONTROL SAMPLE: 1084743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.2	98	78-120	
1,2-Dichloropropane	ug/L	20	21.0	105	78-120	
1,3,5-Trimethylbenzene	ug/L	20	19.9	100	75-120	
1,3-Dichlorobenzene	ug/L	20	19.9	99	79-120	
1,3-Dichloropropane	ug/L	20	20.1	100	75-120	
1,4-Dichlorobenzene	ug/L	20	20.0	100	80-120	
2,2-Dichloropropane	ug/L	20	16.4	82	54-132	
2-Butanone (MEK)	ug/L	100	101	101	40-160	
2-Chlorotoluene	ug/L	20	19.3	96	78-120	
2-Hexanone	ug/L	100	101	101	40-160	
4-Chlorotoluene	ug/L	20	20.5	103	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	65-126	
Acetone	ug/L	100	93.2	93	40-160	
Benzene	ug/L	20	20.3	102	74-123	
Bromobenzene	ug/L	20	21.5	107	79-120	
Bromochloromethane	ug/L	20	21.7	109	75-120	
Bromodichloromethane	ug/L	20	19.3	97	74-120	
Bromoform	ug/L	20	18.6	93	70-123	
Bromomethane	ug/L	20	15.7	78	40-158	
Carbon disulfide	ug/L	20	18.7	94	67-135	
Carbon tetrachloride	ug/L	20	20.0	100	74-126	
Chlorobenzene	ug/L	20	21.1	106	80-120	
Chloroethane	ug/L	20	21.3	106	60-144	
Chloroform	ug/L	20	20.2	101	77-120	
Chloromethane	ug/L	20	18.0	90	40-142	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	70-120	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	73-121	
Dibromochloromethane	ug/L	20	19.4	97	77-122	
Dibromomethane	ug/L	20	21.3	106	76-120	
Dichlorodifluoromethane	ug/L	20	12.5	62	40-160	
Ethylbenzene	ug/L	20	21.0	105	76-123	
Hexachloro-1,3-butadiene	ug/L	20	19.0	95	72-124	
Isopropylbenzene (Cumene)	ug/L	20	22.0	110	80-126	
Methyl-tert-butyl ether	ug/L	20	21.5	108	67-125	
Methylene chloride	ug/L	20	20.0	100	72-127	
n-Butylbenzene	ug/L	20	19.3	96	76-125	
n-Propylbenzene	ug/L	20	18.3	91	77-120	
Naphthalene	ug/L	20	17.7	88	63-128	
p-Isopropyltoluene	ug/L	20	19.3	97	77-121	
sec-Butylbenzene	ug/L	20	20.5	102	77-122	
Styrene	ug/L	20	20.8	104	79-120	
tert-Butylbenzene	ug/L	20	20.0	100	75-124	
Tetrachloroethene	ug/L	20	19.9	99	78-121	
Toluene	ug/L	20	19.3	97	75-123	
trans-1,2-Dichloroethene	ug/L	20	19.1	95	80-129	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	77-122	
Trichloroethene	ug/L	20	20.3	101	74-120	
Trichlorofluoromethane	ug/L	20	20.1	100	69-122	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

LABORATORY CONTROL SAMPLE: 1084743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	20.4	102	50-140	
Xylene (Total)	ug/L	60	60.8	101	76-123	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			97	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1084744 1084745

Parameter	Units	60131493003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.1	19.8	90	99	62-135	9	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.8	21.2	104	106	62-146	2	32	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.4	20.9	97	104	59-131	7	29	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	20.0	92	100	63-129	9	34	
1,1-Dichloroethane	ug/L	ND	20	20	19.9	19.5	100	98	61-132	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	23.5	22.9	117	115	51-140	2	31	
1,1-Dichloropropene	ug/L	ND	20	20	21.3	22.3	106	111	59-145	5	34	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.4	19.4	77	97	51-138	23	44	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	22.9	99	114	61-129	15	31	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.9	21.0	95	105	54-136	11	34	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.6	20.2	98	101	46-141	3	32	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.9	20.4	85	102	53-133	19	32	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.5	21.2	98	106	58-138	8	37	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.9	19.6	94	98	62-130	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.8	96	94	52-146	2	35	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	41.9	41.4	105	103	53-150	1	31	
1,2-Dichloropropane	ug/L	ND	20	20	20.4	19.9	102	99	64-133	2	31	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	20.1	98	100	45-142	2	43	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.1	20.7	96	103	58-130	8	31	
1,3-Dichloropropane	ug/L	ND	20	20	18.6	21.0	93	105	62-124	12	31	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.3	19.8	96	99	60-132	3	32	
2,2-Dichloropropane	ug/L	ND	20	20	14.3	14.5	71	72	40-150	2	31	
2-Butanone (MEK)	ug/L	ND	100	100	89.9	88.4	90	88	40-138	2	34	
2-Chlorotoluene	ug/L	ND	20	20	19.3	19.9	96	99	61-130	3	31	
2-Hexanone	ug/L	ND	100	100	94.8	98.0	95	98	40-130	3	33	
4-Chlorotoluene	ug/L	ND	20	20	20.2	21.2	101	106	61-132	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	95.8	89.1	96	89	57-128	7	35	
Acetone	ug/L	ND	100	100	91.3	99.3	91	99	40-151	8	35	
Benzene	ug/L	ND	20	20	20.1	20.6	101	103	40-155	2	45	
Bromobenzene	ug/L	ND	20	20	20.3	20.5	102	103	63-130	1	30	
Bromochloromethane	ug/L	ND	20	20	19.5	23.2	98	116	63-132	17	30	
Bromodichloromethane	ug/L	ND	20	20	19.0	18.1	95	91	58-133	5	29	
Bromoform	ug/L	ND	20	20	17.1	16.9	85	84	56-132	1	29	
Bromomethane	ug/L	ND	20	20	14.2	19.4	71	97	40-157	31	43	
Carbon disulfide	ug/L	ND	20	20	20.8	21.8	104	109	55-153	5	32	
Carbon tetrachloride	ug/L	ND	20	20	21.0	22.0	105	110	60-154	4	34	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1084744 1084745

Parameter	Units	60131493003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	19.8	21.2	99	106	54-141	7	31	
Chloroethane	ug/L	ND	20	20	29.9	25.7	150	129	48-160	15	23	
Chloroform	ug/L	ND	20	20	20.0	20.0	100	100	59-138	0	29	
Chloromethane	ug/L	ND	20	20	21.3	19.6	106	98	40-160	8	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	20.2	106	101	46-144	5	34	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.5	18.1	92	91	60-130	2	32	
Dibromochloromethane	ug/L	ND	20	20	18.2	19.7	91	98	60-135	8	31	
Dibromomethane	ug/L	ND	20	20	21.0	20.3	105	101	64-131	3	30	
Dichlorodifluoromethane	ug/L	ND	20	20	14.2	14.7	71	73	40-156	4	40	
Ethylbenzene	ug/L	ND	20	20	20.1	21.5	101	108	40-158	7	48	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.5	19.5	87	97	47-144	11	41	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20.9	22.8	104	114	51-156	9	33	
Methyl-tert-butyl ether	ug/L	0.27J	20	20	20.7	20.6	102	102	40-147	0	47	
Methylene chloride	ug/L	ND	20	20	20.2	20.3	101	102	60-137	1	28	
n-Butylbenzene	ug/L	ND	20	20	18.8	20.5	94	102	52-144	9	38	
n-Propylbenzene	ug/L	ND	20	20	18.9	20.2	95	101	55-139	6	34	
Naphthalene	ug/L	ND	20	20	17.6	20.2	88	101	40-149	13	39	
p-Isopropyltoluene	ug/L	ND	20	20	18.7	19.5	94	97	49-143	4	35	
sec-Butylbenzene	ug/L	ND	20	20	19.8	21.3	99	106	54-143	7	36	
Styrene	ug/L	ND	20	20	19.2	20.7	96	104	50-136	7	34	
tert-Butylbenzene	ug/L	ND	20	20	20.0	20.9	100	104	56-142	4	37	
Tetrachloroethene	ug/L	ND	20	20	19.6	21.4	98	107	54-152	9	35	
Toluene	ug/L	ND	20	20	19.3	20.3	96	102	42-151	5	46	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.6	21.2	103	106	66-152	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.9	20.1	90	100	60-133	11	32	
Trichloroethene	ug/L	ND	20	20	20.6	21.0	103	105	51-146	2	34	
Trichlorofluoromethane	ug/L	ND	20	20	22.7	23.0	114	115	55-146	1	34	
Vinyl chloride	ug/L	ND	20	20	23.3	23.5	116	117	40-160	1	30	
Xylene (Total)	ug/L	ND	60	60	58.1	62.7	97	105	40-151	8	45	
1,2-Dichloroethane-d4 (S)	%						105	102	80-120			
4-Bromofluorobenzene (S)	%						100	100	80-120			
Dibromofluoromethane (S)	%						101	98	80-120			
Toluene-d8 (S)	%						100	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: OEXT/35576
QC Batch Method: EPA 3510C
Analysis Method: EPA 8015B
Analysis Description: EPA 8015B
Associated Lab Samples: 60131355001

METHOD BLANK: 1082593 Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/19/12 18:10	
n-Tetracosane (S)	%	58	35-120	10/19/12 18:10	
p-Terphenyl (S)	%	55	35-121	10/19/12 18:10	

LABORATORY CONTROL SAMPLE: 1082594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	25	16.2	65	56-120	
n-Tetracosane (S)	%			58	35-120	
p-Terphenyl (S)	%			59	35-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1082595 1082596

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/L	ND	25	25	16.8	18.0	67	72	56-122	7	29	
n-Tetracosane (S)	%						65	68	35-120			
p-Terphenyl (S)	%						64	68	35-121			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: WET/37819
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60131355001

METHOD BLANK: 1084946 Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/23/12 08:31	

LABORATORY CONTROL SAMPLE: 1084947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	482	96	90-110	

SAMPLE DUPLICATE: 1084948

Parameter	Units	60131705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	109	112	2	9	

SAMPLE DUPLICATE: 1084949

Parameter	Units	60131659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	166	172	3	9	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: WET/37728
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60131355001

METHOD BLANK: 1081731 Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/18/12 11:18	

SAMPLE DUPLICATE: 1081732

Parameter	Units	60131335003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	164	133	21	17	D6

SAMPLE DUPLICATE: 1081733

Parameter	Units	60131271004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	735	739	1	17	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: WET/37837
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60131355001

METHOD BLANK: 1085237 Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/23/12 19:09	

LABORATORY CONTROL SAMPLE: 1085238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 1085239

Parameter	Units	60131463001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	98	75-125	

780

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

QC Batch: WETA/22188
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60131355001

METHOD BLANK: 1085817 Matrix: Water
Associated Lab Samples: 60131355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	10/24/12 15:16	
Chloride	mg/L	ND	1.0	10/24/12 15:16	
Sulfate	mg/L	ND	1.0	10/24/12 15:16	

LABORATORY CONTROL SAMPLE: 1085818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	5.0	99	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE SAMPLE: 1085819

Parameter	Units	60131349001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	ND	50	50.0	100	75-119	
Chloride	mg/L	6.6J	50	49.4	86	64-118	
Sulfate	mg/L	43.7	50	89.0	91	61-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1085820 1085821

Parameter	Units	60131355001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	2.4	5	5	4.8	5.0	48	51	75-119	3	10	M1
Chloride	mg/L	319	125	125	430	434	89	92	64-118	1	12	
Sulfate	mg/L	5290	2500	2500	7500	7480	88	87	61-119	0	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: GCV/4130

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074922 AREA 6 038971P1-2
Pace Project No.: 60131355

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60131355001	GW-074922-101612-CM-03897PI-2	EPA 3510C	OEXT/35576	EPA 8015B	GCSV/13379
60131355001	GW-074922-101612-CM-03897PI-2	EPA 5030B/8015B	GCV/4130		
60131355001	GW-074922-101612-CM-03897PI-2	EPA 3010	MPRP/20061	EPA 6010	ICP/16452
60131355001	GW-074922-101612-CM-03897PI-2	EPA 5030B/8260	MSV/49450		
60131355001	GW-074922-101612-CM-03897PI-2	SM 2320B	WET/37819		
60131355001	GW-074922-101612-CM-03897PI-2	SM 2540C	WET/37728		
60131355001	GW-074922-101612-CM-03897PI-2	SM 4500-S-2 D	WET/37837		
60131355001	GW-074922-101612-CM-03897PI-2	EPA 300.0	WETA/22188		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 312017 Job Number: 19559

Submitter Sample Name: GW-074922-101612-CM-03897P1-3

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan Basin, NM

Depth/Formation:

Container Type: IsoBag

Sample Collected: 10/16/2012 Results Reported: 11/13/2012

δD of water	----------	-110.2 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-14.30 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks: Nitrates not analyzed for isotopes due to insufficient concentration.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #:	313506	Job #:	19649
Sample Name/Number:	GW-074922-101612-CM-03897P1-3		
Company:	Pace Analytical		
Date Sampled:	10/16/2012		
Container:	IsoBag		
Field/Site Name:	074922 - Area 6		
Location:	San Juan Basin, NM		
Formation/Depth:			
Sampling Point:			
Date Received:	10/26/2012	Date Reported:	10/30/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	na			
Hydrogen	nd			
Argon	1.33			
Oxygen	25.10			
Nitrogen	72.06			
Carbon Dioxide	1.45			
Methane	0.0566			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.81
Concentration of methane in water = 0.019 cc/L ; 0.013 ppm
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

60131355
~~60131321~~
11/6/RAF

Send Data and Invoice to

Name: Christine Mathews
Company: CRA
Address: 6121 Indian School Rd #200
Albuquerque, NM 87111
Phone: 505-884-0672
Fax:
Email: CMathews@craworld.com

Project: 074922
Location: San Juan Basin, NM
Sampled by: CM, JP, SF

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Oxygen, hydrogen, Nitrogen Isotopes	Analyses Requested: Dissolved Methane Isotopes	
	GW-074922-101612-CM-038972PL-2	10.16.12	X	X	

Notes: Run carbon & hydrogen isotopes for entire C1 thru C4. Please report to Alice Flanagan @ Pace Analytical

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by		CRA	10.16.12	1530
Received by		Isotech	10/17/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

Terry S. Lauck
Program Manager

ConocoPhillips Company
Risk Management & Remediation
1380G Plaza Office Building
315 Johnstone Avenue
Bartlesville, OK 74004
Phone: 918.661.0935
E-mail: Terry.S.Lauck@conocophillips.com

ConocoPhillips

Ms. Vicky L. Estlack
PO Box 6546
Navajo Dam, NM 87419

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

February 18, 2013

Re: Water Well Sample Analytical Results

Dear Ms. Estlack:

Enclosed are the laboratory analytical results for the water and air samples a ConocoPhillips Company contractor obtained on October 17, 2012, from the water well on your property located on Road 4049, in San Juan County, New Mexico. Summary tables are included along with the laboratory reports. The summary table for water results depicts New Mexico Water Quality Control Commission (NMWQCC) standards in relation to the results obtained for the samples from your well for the October 2012 sampling event as well as the prior May 2012 and December 2011 sampling events. Note that during all three sampling events, the only exceedances of established NMWQCC standards are for total dissolved solids and sulfate. This is typical of water wells in the region.

As you know, ConocoPhillips initially contacted you in late 2011, seeking permission to sample your well in response to methane and hydrogen sulfide found in a vicinity water well. ConocoPhillips continues to work with the New Mexico Oil Conservation Division (NMOCD) to investigate the possible source(s) for the methane and hydrogen sulfide that have impacted that well. ConocoPhillips notes that neither methane nor hydrogen sulfide were detected in the water sample from your well during the October 2012 sampling.

ConocoPhillips does not plan to conduct any more sampling of your water well due to: (1) a lack of methane detected in the water during both the December 2011 and October 2012 sampling events and (2) the very small amount of methane detected in the water during the May 2012 sampling is not characteristic of the methane commercially produced from the Mesaverde and Fruitland Coal Formations in the area. As explained in the August 17, 2012 letter to you from ConocoPhillips, it is not uncommon for small amounts of methane to appear in water wells in the San Juan Basin due to shallow coal seams and organic-rich shales.

The results of the October 2012 sampling event for your water well have been provided to the NMOCD via copy of this letter. Thank you again for your cooperation with ConocoPhillips regarding this matter. Please feel free to contact me if you have any questions.

Sincerely,

CONOCOPHILLIPS COMPANY

Terry S. Lauck

Cc: Mr. Brandon Powell, NMOCD
Mr. Kooper Saiz, ConocoPhillips

Enclosures

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - OCTOBER 2012
02816 - ESTLACK

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	1,2,3-Trichloroben-zene (µg/L)	1,2,4-Trichloroben-zene (µg/L)	Hexachloro-1,3-butadiene (µg/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
02816	DW-074922-120111-CM-46	12/01/2011	< 10.0	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	255	297,000	9,410	4,290	1,110,000	126	3,930	< 0.50	< 2.6	4.8	3,310
	GW-074922-052212-CM-02816-2	05/22/2012	242	NA	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	242	272,000	9,330	4,380	1,160,000	118	4,640	< 0.05	< 1.0	4.5	3,400
	GW-074922-052212-CM-02816-3	10/17/2012	< 0.2***	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	< 1.0	< 1.0	2.3	2.3	1.5	237	277,000	8,600	7,100	191,000	114	1,150	< 0.05	1.5	4.8	4,110
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100	NE	NE	NE	750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
02816	DW-074922-120111-CM-46	12/01/2011	-123.1	-15.93
	GW-074922-052212-CM-02816-2	05/22/2012	-120.6	-15.67
	GW-074922-052212-CM-02816-3	10/17/2012	-121.7	-15.96

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen Chemical mol. %	Nitrogen δ15N‰	Carbon Dioxide Chemical mol. %	Carbon Dioxide δ13C‰	Carbon Dioxide δD‰	Methane Chemical mol. %	Methane δ13C‰	Methane δD‰	Ethane Chemical mol. %	Ethane δ13C‰	Ethane δD‰	Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %
02816	--	12/01/2011	Inaccessible																					
	A-074922-052212-CM-02816-2	05/22/2012	0.0027	--	0.975	21.94	77.02	--	0.065	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A-074922-052212-CM-02816-3	10/17/2012	nd	nd	0.951	20.98	77.94	-0.5	0.13	--	--	0.0002	--	--	nd	--	--	nd	nd	nd	nd	nd	nd	nd

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
02816	--	12/01/2011	Inaccessible	
	A-074922-052212-CM-02816-2	05/22/2012	< 0.42	< 0.0021
	A-074922-052212-CM-02816-3	10/17/2012	< 0.42	< 0.0021

ANALYTICAL RESULTS SUMMARY
MAY 2012 - OCTOBER 2012
02816 - ESTLACK

AIR TO-15 RESULTS		
Well ID→	02816	
Sample ID→	A-074922-052212-CM-02816-2	A-074922-101712-CM-02816-3
Date→	05/22/2012	10/17/2012
Constituents ↓	Results in ug/m3	
Acetone	77.6	54.8
Benzene	< 3.4	< 1.1
Bromodichloromethane	< 7.2	< 4.6
Bromomethane	< 4.1	< 2.7
2-Butanone	87.3	70.2
Carbon disulfide	< 3.3	< 2.1
Carbon tetrachloride	< 6.7	< 2.2
Chloroethane	< 2.8	< 1.8
Chloroform	9.9	< 3.4
Chloromethane	< 2.2	< 1.4
Cyclohexane	187	< 2.4
Dichlorodifluoromethane	< 5.3	< 3.4
1,4-Dichlorobenzene	< 6.4	< 4.1
1,2 - Dichloroethane	< 4.3	< 1.4
1,1 - Dichloroethene	< 4.2	< 2.8
cis - 1,2 - Dichloroethene	< 4.2	< 2.7
trans - 1,2 - Dichloroethene	< 4.2	< 2.7
trans - 1,3 - Dichloropropene	< 4.9	< 3.1
Dichlorotetrafluorethane	< 7.5	< 4.8
Ethanol	17.6	13.2
Ethylbenzene	< 4.6	6.2
4 -Ethyltoluene	< 5.2	4.5
n-Heptane	36.4	5.1
2-Hexanone	< 4.4	7.4
Hexachloro-1,3-butadiene	< 11.4	< 7.5
n-Hexane	209	13.8
Methylene Chloride	< 3.7	31.9
4-methyl-2-pentanone	< 4.4	5.2
Naphthalene	< 5.6	5.6
2-propanol	< 2.6	< 1.7
Styrene	< 4.5	4.5
1,1,2,2-Tetrachloroethane	< 7.3	< 2.4
Tetrahydrofuran	< 3.2	25.8
Toluene	11.0	14.3
1,2,4-Trichlorobenzene	< 7.9	< 5.1
1,1,2-Trichloroethane	< 5.8	< 1.9
Trichloroethene	< 5.7	< 1.9
Trichlorofluoromethane	112	67.8
1,1,2-Trichlorotrifluoroethane	< 8.2	< 5.4
1,2,4-Trimethylbenzene	< 5.2	8.5
1,3,5-Trimethylbenzene	< 5.2	6.9
Vinyl Chloride	< 2.7	< 0.88
THC as Gas	20,700	3,700
Xylenes	< 13.9	23.0

Notes:

1. TPH GRO = total petroluem hydrocarbons gasoline range organics
2. TPH DRO = total petroleum hydrocarbons diesel range organics
3. ug/L = micrograms per liter (parts per billion)
4. mg/L = milligrams per liter (parts per million)
5. < 1.0 = Below laboratory detection limit of 1.0 mg/L
6. NMWQCC = New Mexico Water Quality Control Commission
7. Values in bold indicate an exceedance of the NMWQCC
8. NE = Not established
9. ppmv = part per million by volume
10. **** = Data obtained from Isobag

There is no EPA-approved method for analysis of methane in the headspace of groundwater samples. Prior to October 2012, analysis of dissolved gases in groundwater samples from this location utilized Method RSK 175. This method requires collection of a groundwater sample in a glass vial with a screw-on cap. Therefore, the sample has the potential for exposure to ambient air during collection. Beginning in October 2012, IsoBags® have been utilized to collect groundwater samples from this location. An IsoBag eliminates exposure of the sample to ambient air thus preventing the potential loss of dissolved gases prior to analysis.

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

November 06, 2012

Christine Matthews
CRA
6121 Indian School Rd NE
Suite 200
Albuquerque, NM 87110

RE: Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Dear Christine Matthews:
Enclosed are the analytical results for sample(s) received by the laboratory between October 18, 2012 and October 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa
Angela Bown, COP Conestoga-Rovers & Associa
Cassie Brown, COP Conestoga-Rovers & Associa

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CERTIFICATIONS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 12-019-0
Illinois Certification #: 002885
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-12-3
Utah Certification #: KS000212012-2

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SAMPLE SUMMARY

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60131466001	GW-074922-101712-CM-02816-3	Water	10/17/12 10:25	10/18/12 08:30
60131466002	TRIP BLANK	Water	10/17/12 00:00	10/18/12 08:30
60131466003	A-074922-101712-CM-02816-3	Air	10/17/12 11:30	10/22/12 12:45

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SAMPLE ANALYTE COUNT

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60131466001	**GW-074922-101712-CM-02816-3**	EPA 8015B	NAW	3	PASI-K
		EPA 5030B/8015B	SDR	3	PASI-K
		EPA 6010	SMW	5	PASI-K
		EPA 5030B/8260	JTK	70	PASI-K
		SM 2320B	DJR	1	PASI-K
		SM 2540C	FJF	1	PASI-K
		SM 4500-S-2 D	SRM1	1	PASI-K
		EPA 300.0	AJM	3	PASI-K
60131466003	**A-074922-101712-CM-02816-3**	TO-15	CJR	62	PASI-M

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **TO-15**
Description: TO15 MSV AIR
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **EPA 8015B**
Description: 8015B Diesel Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **EPA 5030B/8015B**
Description: Gasoline Range Organics
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8015B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/4130

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/20163

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131463001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1086310)
  - Sodium, Dissolved
- MSD (Lab ID: 1086311)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/49510

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60131463001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1086002)
  - 1,1-Dichloroethene

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: **SM 4500-S-2 D**
Description: 4500S2D Sulfide, Total
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for SM 4500-S-2 D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Method: EPA 300.0
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: November 06, 2012

General Information:
1 sample was analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Sample: GW-074922-101712-CM-02816-3 **Lab ID: 60131466001** Collected: 10/17/12 10:25 Received: 10/18/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 3510C								
TPH-DRO	ND	mg/L	0.50	0.16	1	10/19/12 00:00	10/19/12 21:10		
Surrogates									
p-Terphenyl (S)	63	%	35-121		1	10/19/12 00:00	10/19/12 21:10	92-94-4	
n-Tetracosane (S)	64	%	35-120		1	10/19/12 00:00	10/19/12 21:10	646-31-1	
Gasoline Range Organics	Analytical Method: EPA 5030B/8015B								
TPH-GRO	ND	mg/L	0.50	0.12	1		10/22/12 20:13		
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/22/12 20:13	460-00-4	
Preservation pH	**1.0**				1		10/22/12 20:13		
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Boron, Dissolved	**237**	ug/L	100	1.8	1	10/24/12 17:00	10/27/12 13:39	7440-42-8	
Calcium, Dissolved	**277000**	ug/L	100	35.8	1	10/24/12 17:00	10/27/12 13:39	7440-70-2	
Magnesium, Dissolved	**8600**	ug/L	50.0	17.2	1	10/24/12 17:00	10/27/12 13:39	7439-95-4	
Potassium, Dissolved	**7100**	ug/L	500	64.1	1	10/24/12 17:00	10/27/12 13:39	7440-09-7	
Sodium, Dissolved	**191000**	ug/L	10000	802	20	10/24/12 17:00	11/02/12 11:18	7440-23-5	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.2	1		10/24/12 14:20	67-64-1	
Benzene	ND	ug/L	1.0	0.12	1		10/24/12 14:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.083	1		10/24/12 14:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.48	1		10/24/12 14:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.21	1		10/24/12 14:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.58	1		10/24/12 14:20	75-25-2	
Bromomethane	ND	ug/L	5.0	0.27	1		10/24/12 14:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.92	1		10/24/12 14:20	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.13	1		10/24/12 14:20	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.12	1		10/24/12 14:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.11	1		10/24/12 14:20	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.14	1		10/24/12 14:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.19	1		10/24/12 14:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.13	1		10/24/12 14:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		10/24/12 14:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.096	1		10/24/12 14:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.092	1		10/24/12 14:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.23	1		10/24/12 14:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.39	1		10/24/12 14:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1.4	1		10/24/12 14:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.29	1		10/24/12 14:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.31	1		10/24/12 14:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.73	1		10/24/12 14:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.18	1		10/24/12 14:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.15	1		10/24/12 14:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.17	1		10/24/12 14:20	106-46-7	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Sample: GW-074922-101712-CM-02816-3 **Lab ID: 60131466001** Collected: 10/17/12 10:25 Received: 10/18/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Dichlorodifluoromethane	ND	ug/L	1.0	0.18	1		10/24/12 14:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.30	1		10/24/12 14:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.18	1		10/24/12 14:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.12	1		10/24/12 14:20	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.15	1		10/24/12 14:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		10/24/12 14:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.083	1		10/24/12 14:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.21	1		10/24/12 14:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.19	1		10/24/12 14:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.26	1		10/24/12 14:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.32	1		10/24/12 14:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		10/24/12 14:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.11	1		10/24/12 14:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.060	1		10/24/12 14:20	100-41-4	
Hexachloro-1,3-butadiene	**1.5**	ug/L	1.0	0.47	1		10/24/12 14:20	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.1	1		10/24/12 14:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.18	1		10/24/12 14:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.066	1		10/24/12 14:20	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.24	1		10/24/12 14:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1.5	1		10/24/12 14:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.33	1		10/24/12 14:20	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.25	1		10/24/12 14:20	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		10/24/12 14:20	103-65-1	
Styrene	ND	ug/L	1.0	0.070	1		10/24/12 14:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.12	1		10/24/12 14:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.26	1		10/24/12 14:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.13	1		10/24/12 14:20	127-18-4	
Toluene	ND	ug/L	1.0	0.054	1		10/24/12 14:20	108-88-3	
1,2,3-Trichlorobenzene	**4.2**	ug/L	1.0	0.64	1		10/24/12 14:20	87-61-6	
1,2,4-Trichlorobenzene	**2.3**	ug/L	1.0	0.52	1		10/24/12 14:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.18	1		10/24/12 14:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.27	1		10/24/12 14:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		10/24/12 14:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.17	1		10/24/12 14:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.35	1		10/24/12 14:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.087	1		10/24/12 14:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.14	1		10/24/12 14:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.11	1		10/24/12 14:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.67	1		10/24/12 14:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		10/24/12 14:20	460-00-4	
Dibromofluoromethane (S)	101	%	80-120		1		10/24/12 14:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		10/24/12 14:20	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		10/24/12 14:20	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		10/24/12 14:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Sample: GW-074922-101712-CM-02816-3 **Lab ID: 60131466001** Collected: 10/17/12 10:25 Received: 10/18/12 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**114**	mg/L	20.0	1.2	1		10/24/12 11:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1150**	mg/L	5.0	5.0	1		10/23/12 09:32		
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D								
Sulfide, Total	ND	mg/L	0.050	0.018	1		10/23/12 19:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Bromide	**1.5**	mg/L	1.0	0.078	1		10/30/12 05:10	24959-67-9	
Chloride	**4.8**	mg/L	1.0	0.50	1		10/30/12 05:10	16887-00-6	
Sulfate	**4110**	mg/L	500	60.0	500		10/30/12 05:27	14808-79-8	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Sample: A-074922-101712-CM-02816-3 **Lab ID: 60131466003** Collected: 10/17/12 11:30 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**54.8**	ug/m3	1.6	0.82	3.39		11/05/12 13:20	67-64-1	
Benzene	ND	ug/m3	1.1	0.55	3.39		11/05/12 13:20	71-43-2	
Benzyl chloride	ND	ug/m3	3.6	1.8	3.39		11/05/12 13:20	100-44-7	
Bromodichloromethane	ND	ug/m3	4.6	0.60	3.39		11/05/12 13:20	75-27-4	
Bromoform	ND	ug/m3	7.1	3.6	3.39		11/05/12 13:20	75-25-2	
Bromomethane	ND	ug/m3	2.7	0.61	3.39		11/05/12 13:20	74-83-9	
1,3-Butadiene	ND	ug/m3	1.5	0.76	3.39		11/05/12 13:20	106-99-0	
2-Butanone (MEK)	**70.2**	ug/m3	2.0	0.53	3.39		11/05/12 13:20	78-93-3	
Carbon disulfide	ND	ug/m3	2.1	1.1	3.39		11/05/12 13:20	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.2	1.1	3.39		11/05/12 13:20	56-23-5	
Chlorobenzene	ND	ug/m3	3.2	1.6	3.39		11/05/12 13:20	108-90-7	
Chloroethane	ND	ug/m3	1.8	0.92	3.39		11/05/12 13:20	75-00-3	
Chloroform	ND	ug/m3	3.4	1.7	3.39		11/05/12 13:20	67-66-3	
Chloromethane	ND	ug/m3	1.4	0.71	3.39		11/05/12 13:20	74-87-3	
Cyclohexane	ND	ug/m3	2.4	1.2	3.39		11/05/12 13:20	110-82-7	
Dibromochloromethane	ND	ug/m3	5.9	2.9	3.39		11/05/12 13:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.3	2.6	3.39		11/05/12 13:20	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.1	2.1	3.39		11/05/12 13:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	4.1	2.1	3.39		11/05/12 13:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.1	2.1	3.39		11/05/12 13:20	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	3.4	1.7	3.39		11/05/12 13:20	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2.8	1.4	3.39		11/05/12 13:20	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.4	0.70	3.39		11/05/12 13:20	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2.7	1.4	3.39		11/05/12 13:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2.7	0.52	3.39		11/05/12 13:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2.7	1.4	3.39		11/05/12 13:20	156-60-5	
1,2-Dichloropropane	ND	ug/m3	3.2	1.6	3.39		11/05/12 13:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	3.1	0.38	3.39		11/05/12 13:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	3.1	1.6	3.39		11/05/12 13:20	10061-02-6	
Dichlorotetrafluoroethane	ND	ug/m3	4.8	0.72	3.39		11/05/12 13:20	76-14-2	
Ethanol	**13.2**	ug/m3	1.3	0.65	3.39		11/05/12 13:20	64-17-5	
Ethyl acetate	ND	ug/m3	2.5	1.2	3.39		11/05/12 13:20	141-78-6	
Ethylbenzene	**6.2**	ug/m3	3.0	0.40	3.39		11/05/12 13:20	100-41-4	
4-Ethyltoluene	**4.5**	ug/m3	3.4	1.7	3.39		11/05/12 13:20	622-96-8	
n-Heptane	**5.1**	ug/m3	2.8	1.4	3.39		11/05/12 13:20	142-82-5	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	3.7	3.39		11/05/12 13:20	87-68-3	
n-Hexane	**13.8**	ug/m3	2.4	1.2	3.39		11/05/12 13:20	110-54-3	
2-Hexanone	**7.4**	ug/m3	2.8	1.4	3.39		11/05/12 13:20	591-78-6	
Methylene Chloride	**31.9**	ug/m3	2.4	1.2	3.39		11/05/12 13:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.2**	ug/m3	2.8	1.4	3.39		11/05/12 13:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2.5	0.30	3.39		11/05/12 13:20	1634-04-4	
Naphthalene	**5.6**	ug/m3	3.6	1.8	3.39		11/05/12 13:20	91-20-3	
2-Propanol	ND	ug/m3	1.7	0.31	3.39		11/05/12 13:20	67-63-0	
Propylene	ND	ug/m3	1.2	0.59	3.39		11/05/12 13:20	115-07-1	
Styrene	**4.5**	ug/m3	2.9	1.5	3.39		11/05/12 13:20	100-42-5	

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ANALYTICAL RESULTS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Sample: A-074922-101712-CM-02816-3 **Lab ID: 60131466003** Collected: 10/17/12 11:30 Received: 10/22/12 12:45 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,2,2-Tetrachloroethane	ND	ug/m3	2.4	0.64	3.39		11/05/12 13:20	79-34-5	
Tetrachloroethene	ND	ug/m3	2.3	1.2	3.39		11/05/12 13:20	127-18-4	
Tetrahydrofuran	**25.8**	ug/m3	2.0	1.0	3.39		11/05/12 13:20	109-99-9	
THC as Gas	**3700**	ug/m3	206	103	3.39		11/05/12 13:20		
Toluene	**14.3**	ug/m3	2.6	1.3	3.39		11/05/12 13:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	2.6	3.39		11/05/12 13:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	3.8	1.9	3.39		11/05/12 13:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.9	0.94	3.39		11/05/12 13:20	79-00-5	
Trichloroethene	ND	ug/m3	1.9	0.93	3.39		11/05/12 13:20	79-01-6	
Trichlorofluoromethane	**67.8**	ug/m3	3.9	0.75	3.39		11/05/12 13:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.4	2.7	3.39		11/05/12 13:20	76-13-1	
1,2,4-Trimethylbenzene	**8.5**	ug/m3	3.4	1.7	3.39		11/05/12 13:20	95-63-6	
1,3,5-Trimethylbenzene	**6.9**	ug/m3	3.4	0.44	3.39		11/05/12 13:20	108-67-8	
Vinyl acetate	ND	ug/m3	2.4	1.2	3.39		11/05/12 13:20	108-05-4	
Vinyl chloride	ND	ug/m3	0.88	0.44	3.39		11/05/12 13:20	75-01-4	
m&p-Xylene	**15.8**	ug/m3	6.0	3.0	3.39		11/05/12 13:20	179601-23-1	
o-Xylene	**7.2**	ug/m3	3.0	0.43	3.39		11/05/12 13:20	95-47-6	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: AIR/16105
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 60131466003

METHOD BLANK: 1325781
Matrix: Air
Associated Lab Samples: 60131466003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	11/05/12 11:53	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	11/05/12 11:53	
1,1,2-Trichloroethane	ug/m3	ND	0.55	11/05/12 11:53	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	11/05/12 11:53	
1,1-Dichloroethane	ug/m3	ND	0.82	11/05/12 11:53	
1,1-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
1,2,4-Trichlorobenzene	ug/m3	ND	1.5	11/05/12 11:53	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	11/05/12 11:53	
1,2-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,2-Dichloroethane	ug/m3	ND	0.41	11/05/12 11:53	
1,2-Dichloropropane	ug/m3	ND	0.94	11/05/12 11:53	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	11/05/12 11:53	
1,3-Butadiene	ug/m3	ND	0.45	11/05/12 11:53	
1,3-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
1,4-Dichlorobenzene	ug/m3	ND	1.2	11/05/12 11:53	
2-Butanone (MEK)	ug/m3	ND	0.60	11/05/12 11:53	
2-Hexanone	ug/m3	ND	0.83	11/05/12 11:53	
2-Propanol	ug/m3	ND	0.50	11/05/12 11:53	
4-Ethyltoluene	ug/m3	ND	1.0	11/05/12 11:53	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	0.83	11/05/12 11:53	
Acetone	ug/m3	ND	0.48	11/05/12 11:53	
Benzene	ug/m3	ND	0.32	11/05/12 11:53	
Benzyl chloride	ug/m3	ND	1.0	11/05/12 11:53	
Bromodichloromethane	ug/m3	ND	1.4	11/05/12 11:53	
Bromoform	ug/m3	ND	2.1	11/05/12 11:53	
Bromomethane	ug/m3	ND	0.79	11/05/12 11:53	
Carbon disulfide	ug/m3	ND	0.63	11/05/12 11:53	
Carbon tetrachloride	ug/m3	ND	0.64	11/05/12 11:53	
Chlorobenzene	ug/m3	ND	0.94	11/05/12 11:53	
Chloroethane	ug/m3	ND	0.54	11/05/12 11:53	
Chloroform	ug/m3	ND	0.99	11/05/12 11:53	
Chloromethane	ug/m3	ND	0.42	11/05/12 11:53	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Cyclohexane	ug/m3	ND	0.70	11/05/12 11:53	
Dibromochloromethane	ug/m3	ND	1.7	11/05/12 11:53	
Dichlorodifluoromethane	ug/m3	ND	1.0	11/05/12 11:53	
Dichlorotetrafluoroethane	ug/m3	ND	1.4	11/05/12 11:53	
Ethanol	ug/m3	ND	0.38	11/05/12 11:53	
Ethyl acetate	ug/m3	ND	0.73	11/05/12 11:53	
Ethylbenzene	ug/m3	ND	0.88	11/05/12 11:53	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	11/05/12 11:53	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

METHOD BLANK: 1325781 Matrix: Air

Associated Lab Samples: 60131466003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/m3	ND	1.8	11/05/12 11:53	
Methyl-tert-butyl ether	ug/m3	ND	0.73	11/05/12 11:53	
Methylene Chloride	ug/m3	ND	0.71	11/05/12 11:53	
n-Heptane	ug/m3	ND	0.83	11/05/12 11:53	
n-Hexane	ug/m3	ND	0.72	11/05/12 11:53	
Naphthalene	ug/m3	ND	1.1	11/05/12 11:53	
o-Xylene	ug/m3	ND	0.88	11/05/12 11:53	
Propylene	ug/m3	ND	0.35	11/05/12 11:53	
Styrene	ug/m3	ND	0.87	11/05/12 11:53	
Tetrachloroethene	ug/m3	ND	0.69	11/05/12 11:53	
Tetrahydrofuran	ug/m3	ND	0.60	11/05/12 11:53	
THC as Gas	ug/m3	ND	60.8	11/05/12 11:53	
Toluene	ug/m3	ND	0.77	11/05/12 11:53	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	11/05/12 11:53	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	11/05/12 11:53	
Trichloroethene	ug/m3	ND	0.55	11/05/12 11:53	
Trichlorofluoromethane	ug/m3	ND	1.1	11/05/12 11:53	
Vinyl acetate	ug/m3	ND	0.72	11/05/12 11:53	
Vinyl chloride	ug/m3	ND	0.26	11/05/12 11:53	

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.0	115	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	53.6	97	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	81.2	104	65-132	
1,1-Dichloroethane	ug/m3	41.2	41.6	101	67-132	
1,1-Dichloroethene	ug/m3	40.3	40.1	99	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	82.3	109	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	48.7	97	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.7	106	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	67.3	110	71-132	
1,2-Dichloroethane	ug/m3	41.2	45.3	110	70-131	
1,2-Dichloropropane	ug/m3	47	53.3	113	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	47.2	94	70-133	
1,3-Butadiene	ug/m3	22.5	22.1	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	66.8	109	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	60.7	99	72-131	
2-Butanone (MEK)	ug/m3	30	29.2	97	69-131	
2-Hexanone	ug/m3	41.7	40.0	96	71-134	
2-Propanol	ug/m3	25	27.2	109	72-132	
4-Ethyltoluene	ug/m3	50	51.0	102	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	39.4	95	69-135	
Acetone	ug/m3	24.2	23.5	97	61-139	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

LABORATORY CONTROL SAMPLE: 1325782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/m3	32.5	36.6	113	69-134	
Benzyl chloride	ug/m3	52.5	55.9	107	70-129	
Bromodichloromethane	ug/m3	68.2	78.4	115	71-130	
Bromoform	ug/m3	105	106	101	70-130	
Bromomethane	ug/m3	39.5	40.5	103	69-125	
Carbon disulfide	ug/m3	31.7	30.0	95	66-131	
Carbon tetrachloride	ug/m3	64	73.9	115	68-128	
Chlorobenzene	ug/m3	46.8	49.6	106	75-128	
Chloroethane	ug/m3	26.8	27.3	102	66-131	
Chloroform	ug/m3	49.7	55.4	112	68-132	
Chloromethane	ug/m3	21	20.4	97	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	42.2	105	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	45.3	98	74-134	
Cyclohexane	ug/m3	35	40.3	115	67-136	
Dibromochloromethane	ug/m3	86.6	88.1	102	69-131	
Dichlorodifluoromethane	ug/m3	50.3	51.7	103	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	72.4	102	66-130	
Ethanol	ug/m3	19.2	17.0	89	69-131	
Ethyl acetate	ug/m3	36.6	41.3	113	71-131	
Ethylbenzene	ug/m3	44.2	43.9	99	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	74.6	69	41-150	
m&p-Xylene	ug/m3	88.3	86.4	98	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	40.6	111	70-132	
Methylene Chloride	ug/m3	35.3	31.9	90	73-134	
n-Heptane	ug/m3	41.7	40.0	96	70-134	
n-Hexane	ug/m3	35.8	34.7	97	65-133	
Naphthalene	ug/m3	53.3	68.7	129	57-150	
o-Xylene	ug/m3	44.2	42.7	97	69-138	
Propylene	ug/m3	17.5	18.4	105	70-134	
Styrene	ug/m3	43.3	44.0	102	72-132	
Tetrachloroethene	ug/m3	69	81.1	118	70-130	
Tetrahydrofuran	ug/m3	30	29.3	98	74-128	
THC as Gas	ug/m3	3030	3190	105	66-131	
Toluene	ug/m3	38.3	37.8	99	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	43.1	107	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.5	99	73-130	
Trichloroethene	ug/m3	54.6	67.3	123	72-131	
Trichlorofluoromethane	ug/m3	57.1	57.4	100	66-129	
Vinyl acetate	ug/m3	35.8	32.5	91	71-131	
Vinyl chloride	ug/m3	26	26.6	102	70-131	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: GCV/4130
QC Batch Method: EPA 5030B/8015B
Analysis Method: EPA 5030B/8015B
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 60131466001

METHOD BLANK: 1084707
Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/L	ND	0.50	10/22/12 11:53	
4-Bromofluorobenzene (S)	%	93	70-130	10/22/12 11:53	

LABORATORY CONTROL SAMPLE: 1084708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/L	1	1.2	124	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: MPRP/20163
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60131466001

METHOD BLANK: 1086308 Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron, Dissolved	ug/L	ND	100	10/27/12 13:18	
Calcium, Dissolved	ug/L	ND	100	10/27/12 13:18	
Magnesium, Dissolved	ug/L	ND	50.0	10/27/12 13:18	
Potassium, Dissolved	ug/L	ND	500	10/27/12 13:18	
Sodium, Dissolved	ug/L	ND	500	10/27/12 13:18	

LABORATORY CONTROL SAMPLE: 1086309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	ug/L	1000	936	94	80-120	
Calcium, Dissolved	ug/L	10000	9710	97	80-120	
Magnesium, Dissolved	ug/L	10000	9280	93	80-120	
Potassium, Dissolved	ug/L	10000	10100	101	80-120	
Sodium, Dissolved	ug/L	10000	9730	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1086310 1086311

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron, Dissolved	ug/L	ND	1000	1000	1030	1020	95	93	75-125	1	20	
Calcium, Dissolved	ug/L	106000	10000	10000	116000	115000	92	88	75-125	0	20	
Magnesium, Dissolved	ug/L	3020	10000	10000	12400	12500	94	94	75-125	1	20	
Potassium, Dissolved	ug/L	2020	10000	10000	12300	12400	103	104	75-125	1	20	
Sodium, Dissolved	ug/L	166000	10000	10000	172000	169000	62	35	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: MSV/49510
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60131466001

METHOD BLANK: 1086000
Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 12:46	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/24/12 12:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/24/12 12:46	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/24/12 12:46	
1,1-Dichloroethane	ug/L	ND	1.0	10/24/12 12:46	
1,1-Dichloroethene	ug/L	ND	1.0	10/24/12 12:46	
1,1-Dichloropropene	ug/L	ND	1.0	10/24/12 12:46	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/24/12 12:46	
1,2,3-Trichloropropane	ug/L	ND	2.5	10/24/12 12:46	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/24/12 12:46	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/24/12 12:46	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	10/24/12 12:46	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/24/12 12:46	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/24/12 12:46	
1,2-Dichloroethane	ug/L	ND	1.0	10/24/12 12:46	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	10/24/12 12:46	
1,2-Dichloropropane	ug/L	ND	1.0	10/24/12 12:46	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/24/12 12:46	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/24/12 12:46	
1,3-Dichloropropane	ug/L	ND	1.0	10/24/12 12:46	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/24/12 12:46	
2,2-Dichloropropane	ug/L	ND	1.0	10/24/12 12:46	
2-Butanone (MEK)	ug/L	ND	10.0	10/24/12 12:46	
2-Chlorotoluene	ug/L	ND	1.0	10/24/12 12:46	
2-Hexanone	ug/L	ND	10.0	10/24/12 12:46	
4-Chlorotoluene	ug/L	ND	1.0	10/24/12 12:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/24/12 12:46	
Acetone	ug/L	ND	10.0	10/24/12 12:46	
Benzene	ug/L	ND	1.0	10/24/12 12:46	
Bromobenzene	ug/L	ND	1.0	10/24/12 12:46	
Bromochloromethane	ug/L	ND	1.0	10/24/12 12:46	
Bromodichloromethane	ug/L	ND	1.0	10/24/12 12:46	
Bromoform	ug/L	ND	1.0	10/24/12 12:46	
Bromomethane	ug/L	ND	5.0	10/24/12 12:46	
Carbon disulfide	ug/L	ND	5.0	10/24/12 12:46	
Carbon tetrachloride	ug/L	ND	1.0	10/24/12 12:46	
Chlorobenzene	ug/L	ND	1.0	10/24/12 12:46	
Chloroethane	ug/L	ND	1.0	10/24/12 12:46	
Chloroform	ug/L	ND	1.0	10/24/12 12:46	
Chloromethane	ug/L	ND	1.0	10/24/12 12:46	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 12:46	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 12:46	
Dibromochloromethane	ug/L	ND	1.0	10/24/12 12:46	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

METHOD BLANK: 1086000 Matrix: Water

Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	10/24/12 12:46	
Dichlorodifluoromethane	ug/L	ND	1.0	10/24/12 12:46	
Ethylbenzene	ug/L	ND	1.0	10/24/12 12:46	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/24/12 12:46	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/24/12 12:46	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/24/12 12:46	
Methylene chloride	ug/L	ND	1.0	10/24/12 12:46	
n-Butylbenzene	ug/L	ND	1.0	10/24/12 12:46	
n-Propylbenzene	ug/L	ND	1.0	10/24/12 12:46	
Naphthalene	ug/L	ND	10.0	10/24/12 12:46	
p-Isopropyltoluene	ug/L	ND	1.0	10/24/12 12:46	
sec-Butylbenzene	ug/L	ND	1.0	10/24/12 12:46	
Styrene	ug/L	ND	1.0	10/24/12 12:46	
tert-Butylbenzene	ug/L	ND	1.0	10/24/12 12:46	
Tetrachloroethene	ug/L	ND	1.0	10/24/12 12:46	
Toluene	ug/L	ND	1.0	10/24/12 12:46	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/24/12 12:46	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/24/12 12:46	
Trichloroethene	ug/L	ND	1.0	10/24/12 12:46	
Trichlorofluoromethane	ug/L	ND	1.0	10/24/12 12:46	
Vinyl chloride	ug/L	ND	1.0	10/24/12 12:46	
Xylene (Total)	ug/L	ND	3.0	10/24/12 12:46	
1,2-Dichloroethane-d4 (S)	%	98	80-120	10/24/12 12:46	
4-Bromofluorobenzene (S)	%	106	80-120	10/24/12 12:46	
Dibromofluoromethane (S)	%	95	80-120	10/24/12 12:46	
Toluene-d8 (S)	%	100	80-120	10/24/12 12:46	

LABORATORY CONTROL SAMPLE: 1086001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.0	90	79-121	
1,1,1-Trichloroethane	ug/L	20	20.8	104	76-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	71-121	
1,1,2-Trichloroethane	ug/L	20	18.9	94	78-120	
1,1-Dichloroethane	ug/L	20	19.5	98	74-120	
1,1-Dichloroethene	ug/L	20	21.5	107	68-120	
1,1-Dichloropropene	ug/L	20	21.7	108	78-120	
1,2,3-Trichlorobenzene	ug/L	20	19.3	97	70-129	
1,2,3-Trichloropropane	ug/L	20	17.3	86	74-121	
1,2,4-Trichlorobenzene	ug/L	20	19.9	99	76-123	
1,2,4-Trimethylbenzene	ug/L	20	18.2	91	76-121	
1,2-Dibromo-3-chloropropane	ug/L	20	21.5	108	65-124	
1,2-Dibromoethane (EDB)	ug/L	20	19.0	95	76-125	
1,2-Dichlorobenzene	ug/L	20	18.6	93	80-120	
1,2-Dichloroethane	ug/L	20	20.3	101	72-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

LABORATORY CONTROL SAMPLE: 1086001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	37.9	95	78-120	
1,2-Dichloropropane	ug/L	20	19.8	99	78-120	
1,3,5-Trimethylbenzene	ug/L	20	18.6	93	75-120	
1,3-Dichlorobenzene	ug/L	20	19.1	96	79-120	
1,3-Dichloropropane	ug/L	20	18.6	93	75-120	
1,4-Dichlorobenzene	ug/L	20	18.5	93	80-120	
2,2-Dichloropropane	ug/L	20	20.2	101	54-132	
2-Butanone (MEK)	ug/L	100	107	107	40-160	
2-Chlorotoluene	ug/L	20	17.8	89	78-120	
2-Hexanone	ug/L	100	103	103	40-160	
4-Chlorotoluene	ug/L	20	17.7	89	79-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	99.0	99	65-126	
Acetone	ug/L	100	105	105	40-160	
Benzene	ug/L	20	20.0	100	74-123	
Bromobenzene	ug/L	20	18.2	91	79-120	
Bromochloromethane	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	17.1	85	74-120	
Bromoform	ug/L	20	17.8	89	70-123	
Bromomethane	ug/L	20	16.0	80	40-158	
Carbon disulfide	ug/L	20	18.7	94	67-135	
Carbon tetrachloride	ug/L	20	20.8	104	74-126	
Chlorobenzene	ug/L	20	18.3	92	80-120	
Chloroethane	ug/L	20	18.0	90	60-144	
Chloroform	ug/L	20	18.4	92	77-120	
Chloromethane	ug/L	20	16.2	81	40-142	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	70-120	
cis-1,3-Dichloropropene	ug/L	20	17.8	89	73-121	
Dibromochloromethane	ug/L	20	18.0	90	77-122	
Dibromomethane	ug/L	20	19.2	96	76-120	
Dichlorodifluoromethane	ug/L	20	10.9	54	40-160	
Ethylbenzene	ug/L	20	19.8	99	76-123	
Hexachloro-1,3-butadiene	ug/L	20	19.8	99	72-124	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	80-126	
Methyl-tert-butyl ether	ug/L	20	19.4	97	67-125	
Methylene chloride	ug/L	20	19.4	97	72-127	
n-Butylbenzene	ug/L	20	18.9	95	76-125	
n-Propylbenzene	ug/L	20	17.7	88	77-120	
Naphthalene	ug/L	20	21.4	107	63-128	
p-Isopropyltoluene	ug/L	20	18.7	93	77-121	
sec-Butylbenzene	ug/L	20	19.0	95	77-122	
Styrene	ug/L	20	18.8	94	79-120	
tert-Butylbenzene	ug/L	20	18.3	92	75-124	
Tetrachloroethene	ug/L	20	21.0	105	78-121	
Toluene	ug/L	20	19.2	96	75-123	
trans-1,2-Dichloroethene	ug/L	20	18.5	93	80-129	
trans-1,3-Dichloropropene	ug/L	20	19.1	95	77-122	
Trichloroethene	ug/L	20	18.8	94	74-120	
Trichlorofluoromethane	ug/L	20	22.2	111	69-122	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

LABORATORY CONTROL SAMPLE: 1086001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	21.6	108	50-140	
Xylene (Total)	ug/L	60	57.7	96	76-123	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1086002 1086003

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.3	19.4	106	97	62-135	9	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	26.8	24.6	134	123	62-146	9	32	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	21.9	104	109	59-131	5	29	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	19.0	102	95	63-129	7	34	
1,1-Dichloroethane	ug/L	ND	20	20	23.1	22.0	115	110	61-132	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	28.3	26.6	141	133	51-140	6	31	M1
1,1-Dichloropropene	ug/L	ND	20	20	28.7	26.4	143	132	59-145	8	34	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.4	22.5	92	113	51-138	20	44	
1,2,3-Trichloropropane	ug/L	ND	20	20	22.6	20.0	113	100	61-129	12	31	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.9	22.6	99	113	54-136	13	34	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.8	19.6	109	98	46-141	11	32	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.2	21.3	96	107	53-133	11	32	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.2	20.9	106	105	58-138	1	37	
1,2-Dichlorobenzene	ug/L	ND	20	20	21.3	20.4	107	102	62-130	4	30	
1,2-Dichloroethane	ug/L	ND	20	20	23.4	22.2	117	111	52-146	5	35	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	48.2	46.4	120	115	53-150	4	31	
1,2-Dichloropropane	ug/L	ND	20	20	23.4	22.8	117	114	64-133	2	31	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.6	20.5	108	102	45-142	5	43	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.1	20.6	111	103	58-130	7	31	
1,3-Dichloropropane	ug/L	ND	20	20	18.7	18.7	94	94	62-124	0	31	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.6	21.7	108	108	60-132	0	32	
2,2-Dichloropropane	ug/L	ND	20	20	26.5	25.4	133	127	40-150	4	31	
2-Butanone (MEK)	ug/L	ND	100	100	113	116	113	116	40-138	2	34	
2-Chlorotoluene	ug/L	ND	20	20	22.6	21.5	113	107	61-130	5	31	
2-Hexanone	ug/L	ND	100	100	101	109	101	109	40-130	8	33	
4-Chlorotoluene	ug/L	ND	20	20	21.6	20.6	108	103	61-132	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	108	117	108	117	57-128	8	35	
Acetone	ug/L	ND	100	100	112	107	112	107	40-151	4	35	
Benzene	ug/L	ND	20	20	24.1	23.2	121	116	40-155	4	45	
Bromobenzene	ug/L	ND	20	20	21.9	21.4	110	107	63-130	2	30	
Bromochloromethane	ug/L	ND	20	20	22.9	22.8	114	114	63-132	0	30	
Bromodichloromethane	ug/L	ND	20	20	20.2	20.2	101	101	58-133	0	29	
Bromoform	ug/L	ND	20	20	19.9	20.3	99	102	56-132	2	29	
Bromomethane	ug/L	ND	20	20	19.4	20.2	97	101	40-157	4	43	
Carbon disulfide	ug/L	ND	20	20	23.5	22.4	117	112	55-153	5	32	
Carbon tetrachloride	ug/L	ND	20	20	26.1	25.0	130	125	60-154	4	34	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1086002 1086003

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	20.8	20.1	104	100	54-141	4	31	
Chloroethane	ug/L	ND	20	20	24.4	21.1	122	106	48-160	14	23	
Chloroform	ug/L	ND	20	20	22.9	21.7	114	108	59-138	5	29	
Chloromethane	ug/L	ND	20	20	21.7	19.4	109	97	40-160	11	29	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.7	23.3	117	115	46-144	2	34	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.8	20.9	104	104	60-130	0	32	
Dibromochloromethane	ug/L	ND	20	20	19.9	19.6	100	98	60-135	2	31	
Dibromomethane	ug/L	ND	20	20	22.2	22.0	111	110	64-131	1	30	
Dichlorodifluoromethane	ug/L	ND	20	20	14.0	12.0	70	60	40-156	16	40	
Ethylbenzene	ug/L	ND	20	20	22.6	22.0	113	110	40-158	3	48	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.8	23.0	114	115	47-144	1	41	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.9	23.5	125	118	51-156	6	33	
Methyl-tert-butyl ether	ug/L	ND	20	20	22.2	22.1	111	110	40-147	1	47	
Methylene chloride	ug/L	ND	20	20	22.8	22.3	114	112	60-137	2	28	
n-Butylbenzene	ug/L	ND	20	20	24.3	21.2	121	106	52-144	14	38	
n-Propylbenzene	ug/L	ND	20	20	21.8	21.9	109	109	55-139	0	34	
Naphthalene	ug/L	ND	20	20	18.7	22.0	93	110	40-149	16	39	
p-Isopropyltoluene	ug/L	ND	20	20	22.8	21.3	114	107	49-143	7	35	
sec-Butylbenzene	ug/L	ND	20	20	23.1	22.3	116	112	54-143	3	36	
Styrene	ug/L	ND	20	20	20.8	21.3	104	107	50-136	2	34	
tert-Butylbenzene	ug/L	ND	20	20	23.1	20.3	115	102	56-142	13	37	
Tetrachloroethene	ug/L	ND	20	20	25.0	23.8	125	119	54-152	5	35	
Toluene	ug/L	ND	20	20	22.1	21.5	111	108	42-151	3	46	
trans-1,2-Dichloroethene	ug/L	ND	20	20	24.5	23.1	123	116	66-152	6	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.5	20.0	102	100	60-133	2	32	
Trichloroethene	ug/L	ND	20	20	23.5	22.8	117	114	51-146	3	34	
Trichlorofluoromethane	ug/L	ND	20	20	29.0	27.4	145	137	55-146	6	34	
Vinyl chloride	ug/L	ND	20	20	26.7	25.5	133	127	40-160	5	30	
Xylene (Total)	ug/L	ND	60	60	64.0	62.7	107	104	40-151	2	45	
1,2-Dichloroethane-d4 (S)	%						105	108	80-120			
4-Bromofluorobenzene (S)	%						103	98	80-120			
Dibromofluoromethane (S)	%						106	104	80-120			
Toluene-d8 (S)	%						99	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: OEXT/35576 Analysis Method: EPA 8015B
QC Batch Method: EPA 3510C Analysis Description: EPA 8015B
Associated Lab Samples: 60131466001

METHOD BLANK: 1082593 Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/L	ND	0.50	10/19/12 18:10	
n-Tetracosane (S)	%	58	35-120	10/19/12 18:10	
p-Terphenyl (S)	%	55	35-121	10/19/12 18:10	

LABORATORY CONTROL SAMPLE: 1082594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/L	25	16.2	65	56-120	
n-Tetracosane (S)	%			58	35-120	
p-Terphenyl (S)	%			59	35-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1082595 1082596

Parameter	Units	60131463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO	mg/L	ND	25	25	16.8	18.0	67	72	56-122	7	29	
n-Tetracosane (S)	%						65	68	35-120			
p-Terphenyl (S)	%						64	68	35-121			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: WET/37848
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60131466001

METHOD BLANK: 1085484 Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	10/24/12 10:56	

LABORATORY CONTROL SAMPLE: 1085485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	493	99	90-110	

SAMPLE DUPLICATE: 1085486

Parameter	Units	60131463001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	223	227	2	9	

SAMPLE DUPLICATE: 1085487

Parameter	Units	60131643002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	499	522	5	9	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: WET/37827
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60131466001

METHOD BLANK: 1085113
Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	10/23/12 09:30	

SAMPLE DUPLICATE: 1085114

Parameter	Units	60131394005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	472	471	0	17	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: WET/37837
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Associated Lab Samples: 60131466001

METHOD BLANK: 1085237 Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.050	10/23/12 19:09	

LABORATORY CONTROL SAMPLE: 1085238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	.5	0.51	102	80-120	

MATRIX SPIKE SAMPLE: 1085239

Parameter	Units	60131463001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	.5	0.50	98	75-125	

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QUALITY CONTROL DATA

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

QC Batch: WETA/22245
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60131466001

METHOD BLANK: 1089453 Matrix: Water
Associated Lab Samples: 60131466001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromide	mg/L	ND	1.0	10/30/12 03:24	
Chloride	mg/L	ND	1.0	10/30/12 03:24	
Sulfate	mg/L	ND	1.0	10/30/12 03:24	

LABORATORY CONTROL SAMPLE: 1089454

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromide	mg/L	5	4.9	99	90-110	
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1089455 1089456

Parameter	Units	60131955013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromide	mg/L	ND	100	100	98.8	96.8	99	97	75-119	2	10	
Chloride	mg/L	187	100	100	281	279	94	92	64-118	1	12	
Sulfate	mg/L	51.3	100	100	147	144	95	93	61-119	2	10	

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QUALIFIERS

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: GCV/4130

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074922 AREA 6 02816-3
Pace Project No.: 60131466

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60131466003	A-074922-101712-CM-02816-3	TO-15	AIR/16105		
60131466001	GW-074922-101712-CM-02816-3	EPA 3510C	OEXT/35576	EPA 8015B	GCSV/13379
60131466001	GW-074922-101712-CM-02816-3	EPA 5030B/8015B	GCV/4130		
60131466001	GW-074922-101712-CM-02816-3	EPA 3010	MPRP/20163	EPA 6010	ICP/16509
60131466001	GW-074922-101712-CM-02816-3	EPA 5030B/8260	MSV/49510		
60131466001	GW-074922-101712-CM-02816-3	SM 2320B	WET/37848		
60131466001	GW-074922-101712-CM-02816-3	SM 2540C	WET/37827		
60131466001	GW-074922-101712-CM-02816-3	SM 4500-S-2 D	WET/37837		
60131466001	GW-074922-101712-CM-02816-3	EPA 300.0	WETA/22216		
60131466001	GW-074922-101712-CM-02816-3	EPA 300.0	WETA/22245		

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ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Water Analysis

Lab Number: 312019 Job Number: 19559

Submitter Sample Name: GW-074922-101712-CM-02816-3

Submitter Sample ID:

Submitter Job #:

Company: Pace Analytical

Field or Site: 074922 - Area 6

Location: San Juan Basin, NM

Depth/Formation:

Container Type: IsoBag

Sample Collected: 10/17/2012 Results Reported: 11/13/2012

δD of water	----------	-121.7 ‰ relative to VSMOW
$\delta^{18}O$ of water	----------	-15.96 ‰ relative to VSMOW
Tritium content of water	----------	na
$\delta^{13}C$ of DIC	----------	na
^{14}C content of DIC	----------	na
$\delta^{15}N$ of nitrate	----------	na
$\delta^{18}O$ of nitrate	----------	na
$\delta^{34}S$ of sulfate	----------	na
$\delta^{18}O$ of sulfate	----------	na

Remarks: Nitrates not analyzed for isotopes due to insufficient concentration.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #:	313508	Job #:	19649
Sample Name/Number:	GW-074922-101712-CM-02816-3		
Company:	Pace Analytical		
Date Sampled:	10/17/2012		
Container:	IsoBag		
Field/Site Name:	074922 - Area 6		
Location:	San Juan Basin, NM		
Formation/Depth:			
Sampling Point:			
Date Received:	10/26/2012	Date Reported:	10/30/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{18}O$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	na			
Hydrogen	nd			
Argon	1.03			
Oxygen	22.57			
Nitrogen	75.70			
Carbon Dioxide	0.70			
Methane	nd			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Remarks:
Analysis is of gas extracted from water by headspace equilibration. Analysis has been corrected for helium added to create headspace. Helium dilution factor = 0.59
Concentration of methane in water = < 0.0002 cc/L ; < 0.0002 ppm
*Addition of helium negates the ability to detect native helium and may negate the ability to detect hydrogen.

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Isotopic composition of oxygen is relative to VSMOW, except for carbon dioxide which is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

ISOTECH
ISOTECH LABORATORIES INC

ANALYSIS REPORT

Lab #: 313513 Job #: 19650
Sample Name: A-074922-101712-CM-02816-3 Co. Lab#:
Company: Pace Analytical
Date Sampled: 10/17/2012
Container: Cali-5-Bond Bag
Field/Site Name: 074922 - Area 6
Location:
Formation/Depth:
Sampling Point:
Date Received: 10/26/2012 Date Reported: 11/05/2012

Component	Chemical mol. %	$\delta^{13}C$ ‰	δD ‰	$\delta^{15}N$ ‰
Carbon Monoxide	nd			
Hydrogen Sulfide	na			
Helium	nd			
Hydrogen	nd			
Argon	0.951			
Oxygen	20.98			
Nitrogen	77.94			-0.5
Carbon Dioxide	0.13			
Methane	0.0002			
Ethane	nd			
Ethylene	nd			
Propane	nd			
Propylene	nd			
Iso-butane	nd			
N-butane	nd			
Iso-pentane	nd			
N-pentane	nd			
Hexanes +	nd			

Total BTU/cu.ft. dry @ 60deg F & 14.73psia, calculated: 0
Specific gravity, calculated: 1.001

nd = not detected. na = not analyzed. Isotopic composition of hydrogen is relative to VSMOW. Isotopic composition of carbon is relative to VPDB. Calculations for BTU and specific gravity per ASTM D3588. Chemical compositions are normalized to 100%. Mol. % is approximately equal to vol. %.

AirTECHNOLOGY
Laboratories, Inc.

October 31, 2012

ACLASS ACCREDITED DoD ELAP
ADE-1461
EPA Methods TO-3, TO14A,TO15 SIM & Scan, ASTM D1946

nelac
LA Cert 04140
EPA Methods TO3, TO14A, TO15, 25C/3C, RSK-175
TX Cert T104704450-09-TX
EPA Methods TO14A, TO15

Pace Analytical
ATTN: Alice Flanagan
9608 Loiret Blvd.
Lenexa, KS 66219

LABORATORY TEST RESULTS

Project Reference: 60131466; 074922 Area 6 02816-3
Lab Number: D102203-01

Enclosed are results for sample(s) received 10/22/12 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the NELAC Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Chain of Custody

D102203-01

Pace Analytical
www.pacelabs.com

Workorder: 60131466 **Workorder Name:** 074922 AREA 6 02816-3 **Results Requested** 10/31/2012

Report / Invoice To	Subcontract To
Alice Flanagan Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Email: alice.flanagan@pacelabs.com	P.O. SUB-6521

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: Acetylene ASTM D1946	Requested Analysis: Hydrogen sulfide EPA 15/16	LAB USE ONLY
1	A-074922-101712-CM-02816-2	10/17/2012 11:30	60131466003	Air	1	X	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	10/23/12 1500
2				
3				

Comments

Cooler Temperature on Receipt °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Package 40 49

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 02816-3
Project No.: 60131466
Date Received: 10/22/12
Matrix: Air
Reporting Units: ppmv

EPA 15/16

Lab No.:	D102203-01							
Client Sample I.D.:	A-074922-101712-CM-02816-2 / 60121466003							
Date Sampled:	10/17/12							
Date Analyzed:	10/23/12							
QC Batch No.:	121023GC3A1							
Analyst Initials:	VM							
Dilution Factor:	2.1							
ANALYTE	Result ppmv	RL ppmv						
Hydrogen Sulfide	ND	0.42						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 10/29/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No.: 121023GC3A1
Matrix: Air
Units: ppmv

QC for Sulfur Compounds by EPA 15/16

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/23/12		10/23/12		10/23/12			
Analyst Initials:	VM		VM		VM			
Datafile:	23oct003		23oct001		23oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Hydrogen Sulfide	ND	0.20	84	70-130%	84	70-130%	0.2	<30

ND = Not Detected (Below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date: 10/29/12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report

Client: Pace Analytical
Attn: Alice Flanagan
Project Name: 074922 Area 6 02816-3
Project No.: 60131466
Date Received: 10/22/12
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	**D102203-01**							
Client Sample I.D.:	**A-074922-101712-CM-02816-2 / 60121466003**							
Date Sampled:	**10/17/12**							
Date Analyzed:	**10/25/12**							
QC Batch No.:	**121025GC8A1**							
Analyst Initials:	**MJ**							
Dilution Factor:	**2.1**							
ANALYTE	**Result % v/v**	**RL % v/v**						
Acetylene	ND	0.0021						

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: _____ Date 10/31/12
Mark Johnson
Operations Manager

The cover letter is an integral part of this analytical report

18501 E. Gale Avenue, Suite 130 ♦ City of Industry, CA 91748 ♦ Ph: (626) 964-4032 ♦ Fx: (626) 964-5832

QC Batch No.: 121025GC8A1
Matrix: Air
Units: ppmv

QC for ASTM D1946

Lab No.:	Method Blank		LCS		LCSD			
Date Analyzed:	10/25/12		10/25/12		10/25/12			
Analyst Initials:	MJ		MJ		MJ			
Datafile:	25oct004		25oct001		25oct002			
Dilution Factor:	1.0		1.0		1.0			
ANALYTE	Results	RL	% Rec.	Criteria	% Rec.	Criteria	%RPD	Criteria
Acetylene	ND	10	92	70-130%	90	70-130%	2.6	<30

PQL = Practical Quantitation Limit
ND = Not Detected (Below RL).
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date: 10-30-12
Mark J. Johnson
Operations Manager

The cover letter is an integral part of this analytical report.

SUB - 6521

60131466

AirTECHNOLOGY Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME				DELIVERABLES		PAGE: 1 OF 1
Standard	☒	48 hours	☐	EDD	☐	Condition upon receipt:
Same Day	☐	72 hours	☐	EDF	☐	Sealed Yes ☐ No ☐
24 hours	☐	96 hours	☐	LEVEL 3	☐	Intact Yes ☐ No ☐
Other:				LEVEL 4	☐	Chilled _____ deg C

Project No.: 074922
Project Name: Area 6
Report To: Christine Mathews
Company: CRA
Street: 6121 Indian School NE #200
City/State/Zip: Alb. NM, 87110
Phone& Fax:
e-mail: cmathews@CRA world.com

BILLING
P.O. No.:
Bill to: Alice Flanagan
Pace Lenexa

ANALYSIS REQUEST
ASTM D1946 Acetylene
EPA 15 Hydrogen Sulfide

Lab ID
60131466003

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	CONTAINER TYPE	ASTM D1946 Acetylene	EPA 15 Hydrogen Sulfide				
D102203-01	A-074922-101712-CM-02816-B2 QD 10/22/12	10/17/12	1130	Air	S.Can	X	X				

AUTHORIZATION TO PERFORM WORK	COMPANY	DATE/TIME
	CRA	10/19/12 1600
SAMPLED BY: Jason Ploss	COMPANY: CRA	DATE/TIME
RELINQUISHED BY	DATE/TIME: 10/19/12 1530	RECEIVED BY / DATE/TIME
RELINQUISHED BY: FED EX	DATE/TIME: 10/22/12 1245	RECEIVED BY: Don Thornton / DATE/TIME: 10/22/12 1245
RELINQUISHED BY / DATE/TIME		RECEIVED BY / DATE/TIME

METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____

COMMENTS
* Please report each chain seperately and send to Alice Flanagan of Pace Lenexa
& ID correction via email from Maryjane Walls QD 10/22/12

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCL N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09

6013146

ISOTECH

Isotech Laboratories, Inc.
1308 Parkland Court
Champaign, IL 61821
Phone: 217-398-3490
Fax: 217-398-3493
www.isotechlabs.com
mail@isotechlabs.com

Send Data and Invoice to

Name: Christine Matthews
Company: CRA
Address: 6121 Indian School #200 Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmatthews@craworld.com

Project: 074922 - Arab
Location: San Juan Basin, NM
Sampled by: CM, JP, SF

Sample Description

Container Number	Sample Identification	Date Sampled	Analyses Requested: Oxygen, Hydrogen, Nitrogen, Isotopes	Analyses Requested: dissolved Methane 150 bags		Comments
	GW-074922-10172-CM-028161-3	10-17-12	X	X		

Note: Please report to Alice Flanagan at Pace Analytical, All samples to be reported seperately.

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by	Christine Matthews	CRA	10-17-12	1600
Received by	Peter Gluck	Isotech	10/18/12	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

ISOTECH
ISOTECH LABORATORIES INC
1308 Parkland Court Champaign, IL 61821 • (877) 362-4190 • www.isotechlabs.com

60131466

Send Data and Invoice to

Name: Christine Matthews
Company: CRA
Address: 6121 Indian School #200
Albuquerque, NM 87110
Phone: 505-884-0672
Fax:
Email: cmatthews@craworld.com

Project: Area 6 074922
Purchase Order #:
Location: San Juan Basin, NM
Sampled By: Christine Matthews
Circle one: (Standard) Priority Rush

Sample Description

Container Number	Sample Identification	Date Sampled	Time	Analysis Requested: Mass Spec			Comments
	A-074922-101712-CM-02814-3	10-17-12	1130	X			*Please analyze for carbon/hydrogen C1 & C2, Nitrogen Isotopes, Hydrocarbons/Fixed gases, Specific gravity, BTU/cuFT.

* report each chain individually -send to Alice Flanagan of Pace

Chain-of-Custody Record

	Signature	Company	Date	Time
Relinquished by		CRA	10-22-12	1600
Received by		Isotech	101230	0900
Relinquished by				
Received by				
Relinquished by				
Received by				

RCVD FEB 21 '13
OIL CONS. DIV.
DIST. 3

ANALYTICAL RESULTS SUMMARY
DECEMBER 2011 - OCTOBER 2012
03259 - ALBIN

WATER RESULTS

Well ID	Sample ID	Date	Methane (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	Acetone (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes (µg/L)	2-Butanone (µg/L)	Chloroform (µg/L)	Methylene Chloride (µg/L)	1,2,3-Trichloroben zene (µg/L)	1,2,4-Trichloroben zene (µg/L)	Hexachloro-1,3-butadiene (ug/L)	Dissolved Boron (µg/L)	Dissolved Calcium (µg/L)	Dissolved Magnesium (µg/L)	Dissolved Potassium (µg/L)	Dissolved Sodium (µg/L)	Alkalinity (mg/L)	Total Dissolved Solids (mg/L)	Total Sulfide (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Sulfate (mg/L)
03259	DW-074922-120111-CM-29	12/01/2011	1,940	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	3.1	< 1.0	< 1.0	< 1.0	< 1.0	164	414,000	9,590	5,340	684,000	184	2,620	< 0.50	< 1.0	5.6	2,240
	GW-074922-052212-CM03259-2	05/22/2012	3,160	NA	< 0.53	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	4.0	< 1.0	< 1.0	< 1.0	< 1.0	152	396,000	9,780	5,180	688,000	180	3,710	< 0.050	< 1.0	5.6	2,610
	GW-074922-052212-CM03259-3	10/16/2012	750***	< 0.50	< 0.50	< 10.0	< 1.0	< 1.0	< 1.0	< 3.0	< 10.0	2.6	< 1.0	< 1.0	< 1.0	< 1.0	152	383,000	9,830	4,710	669,000	170	3,700	< 0.050	< 1.0	5.6	2,660
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply			NE	NE	NE	NE	10	750	750	620	NE	NE	100				750	NE	NE	NE	NE	NE	1000	NE	NE	250	600

ISOTOPE WATER RESULTS

Well ID	Sample ID	Date	δD ‰ Relative to VSMOW	δ18O ‰ Relative to VSMOW
03259	DW-074922-120111-CM-29	12/01/2011	-114.2	-14.84
	GW-074922-052212-CM-03259-2	05/22/2012	-112.9	-14.77
	GW-074922-052212-CM-03259-3	10/16/2012	-111.8	-14.86

ISOTOPE AIR/GAS RESULTS

Well ID	Sample ID	Date	Helium Chemical mol. %	Hydrogen Chemical mol. %	Argon Chemical mol. %	Oxygen Chemical mol. %	Nitrogen		Carbon Dioxide			Methane			Ethane			Propane Chemical mol. %	Propylene Chemical mol. %	Iso-butane Chemical mol. %	N-butane Chemical mol. %	Iso-pentane Chemical mol. %	N-pentane Chemical mol. %	Hexanes+ Chemical mol. %	BTU/cu.ft.	Specific Gravity.
							Chemical mol. %	$\delta^{15}N$‰.	Chemical mol. %	$\delta^{13}C$‰.	δD‰.	Chemical mol. %	$\delta^{13}C$‰.	δD‰.	Chemical mol. %	$\delta^{13}C$‰.	δD‰.										
03259	A-074922-120211-CM-29	12/01/2011	--	--	0.935	20.86	78.04		07.075	--	--	0.0916	--	--	0.0006	--	--	--	--	--	--	--	--	--	1	1.000
	A-074922-052212-CM-03259-2	05/22/2012	0.0016	--	0.980	21.75	77.05		0.085	--	--	0.133	--	--	0.0008	--	--	--	--	--	--	--	--	--	1	1.001
	A-074922-052212-CM-03259-3	10/16/2012	nd	nd	0.950	21.34	77.59	-0.6	0.064	--	--	0.0586	--	--	0.0004	--	--	nd	nd	nd	nd	nd	nd	nd	1	1.001

ACETYLENE AND HYDROGEN SULFIDE AIR/GAS RESULTS

Well ID	Sample ID	Date	Hydrogen Sulfide (ppmv)	Acetylene (ppmv)
03259	A-074922-120211-CM-29	12/01/2011	< 0.20	< 10
	A-074922-052212-CM-03259-2	05/22/2012	< 0.43	< 0.0022
	A-074922-052212-CM-03259-3	10/16/2012	< 0.44	< 0.0022