

**MODUS, INC. &  
CAMPO VERDE OIL, INC.**  
Post Office Box 1809  
Porterville, CA 93258-1809  
(559) 781-6862  
FAX (559) 781-7304  
Email: [moduscampo@ocnet.net](mailto:moduscampo@ocnet.net)

RECEIVED

APR 15 2015

PARCEL-C/R  
FRESNO, CALIF.

*copy 1/2*

April 13, 2015

**Dr. Steven R. Bohlen  
State Oil and Gas Supervisor  
Department of Conservation  
Division of Oil, Gas & Geothermal Resources  
801 K Street, MS 24-03  
Sacramento, CA. 95814-3530**

**Via Email: [Steven.Bohlen@conservation.ca.gov](mailto:Steven.Bohlen@conservation.ca.gov) and via Certified Mail #  
7013 3020 0000 2168 2801, Return Receipt Requested**

**RE: Emergency Order to Cease Injection Operations Immediately and Provide  
Information, Order No. 1066**

**Dr. Bohlen;**

**Attached herewith are reports for wastewater and groundwater, that are  
required to be submitted per your Exhibit B of the above order. The reports  
are in compliance with tests as required by Department of Conservation,  
Division of Oil, Gas and Geothermal Resources (DOGGR) and Central Valley  
Regional Water Quality Control Board(CVRWQCB).**

**Wastewater was taken from the wash tank that feeds all the ponds and the  
injection well.**

**The wastewater of the wash tank is the total wastewater from all of the  
operations of Modus, Inc. and Campo Verde Oil, Inc.**

**The groundwater was taken from Silvio and Lucille T. Filippi, Inc. domestic  
well, from a depth of 400 feet.**

Comparing the test results from the two sources are nearly equal, except the wastewater was 310 ppm Total Dissolved Solids and the water well (groundwater) was 580 ppm Total Dissolved Solids.

Obviously fluid taken from the aquifer has commercial quantities of oil, the fluid is cleaned by removing the oil and the resultant wastewater is injected into the aquifer.

Contrary to the "Cease Injection"... order our permitted injection into the aquifer improved the quality of drinking water, not harmed.

Modus, Inc. voluntarily stopped injection into the aquifer but this was not good enough; you Dr. Bohlen demanded we rescind the permit for the injection well, our designated well number 107-2.

Modus, Inc. could not rescind the permit because it would have the retroactive effect of placing Modus, Inc. in the position of injecting into the aquifer for the past twelve years illegally.

The DOGGR had known for years that the injected wastewater was in compliance, 310 ppm Total Dissolved Solids.

I can only conclude that your demand Dr. Bohlen was solely to remove DOGGR from any liability for issuing the permit.

Clearly under U.S.E.P.A. and DOGGR guidelines for an exemption, Modus, Inc.'s oil production is commercial and therefore an exemption should have been given.

Dr. Bohlen, your acting for DOGGR is clearly wrong in the action taken against Modus, Inc.. Modus, Inc. believes that court action will compensate Modus, Inc. for all damages and restore use of the injection well.

Modus, Inc. prefers not to have to resort to resolving the issue in court, if at all possible.



Ernest A. Filippi

**Attachments:**

- 1. Mr. Bohlen's email to Modus, Inc. dated March 2, 2015 requesting that Modus, Inc. relinquish any and all approval from the Division of Oil, Gas and Geothermal Resources to conduct injection operations in the well....**
- 2. Modus, Inc. email in reply to Mr. Bohlen's email, as stated in item 1 of attachments.**
- 3. BC Lab results for Lot 109, Domestic Well, (SLTF, INC.) (WO150671 FinalReport.pdf)**
- 4. BC Lab results for 107-2 Injection Well (WO 1506719 FinalReport.pdf)**
- 5. Inspection Report from CVRWQCB, dated April 3, 2015**

**cc: Mr. Ron Holcomb, CVRWQCB, via email:**

**[ronald.holcomb@waterboards.ca.gov](mailto:ronald.holcomb@waterboards.ca.gov)**

**Mr. Dane Johnson, CVRWQCB, via email:**

**[dane.johnson@waterboards.ca.gov](mailto:dane.johnson@waterboards.ca.gov)**

**Mr. Craig Braun, Braun Law Firm, via email:**

**[cbraun@braunlawfirm.com](mailto:cbraun@braunlawfirm.com)**

**Mr. Mike Schlitz, via email:**

**[Schlitzgm@aol.com](mailto:Schlitzgm@aol.com)**

**Mrs. Jean Pledger**

**[JPledger@eplawyers.net](mailto:JPledger@eplawyers.net)**

From: Bohlen, Steven@DOC [Steven.Bohlen@conservation.ca.gov]  
Sent: 3/2/2015 12:20:20 PM  
To: moduscampo@ocsnet.net [moduscampo@ocsnet.net]  
Subject: Language for voluntary close in of injection well

Dear Mr. and Mrs. Filippi,

Thank you for confirming the Division's data concerning your well 107-2 (API 10720109) in the Deer Creek field.

Owing to our IUC well review and the chance that this well could be injecting near a water well according to the Water Board records, and as I discussed with Mr. Filippi late last week, injection into this well must be discontinued immediately and the well shut in. My understanding is the well is currently inactive and therefore not injecting.

Here is what we had in mind for voluntary rescission language to go on company letterhead and be signed by someone with clear authority to speak for the operator:

[OPERATOR] hereby relinquishes any and all approval from the Division of Oil, Gas, and Geothermal Resources (Division) to conduct injection operations in the following wells: [IDENTIFY WELLS BY API NUMBER]. [OPERATOR] acknowledges and accepts that no future injection operations in these wells are permitted without first obtaining approval from the Division. [OPERATOR]'s relinquishment of injection approval is of its own accord, and [OPERATOR] waives any administrative appeals hearing that might have been requested had the approval been rescinded by the Division.

Having this in place will give us some insurance against future confusion about the status of the well. It will also give us an answer to the foreseeable questions from the public about the binding nature of the operators' voluntary shut-ins.

Thank you for your rapid attention to this matter. We need to receive the letter – fax or via email by COB today in lieu of our sending a cease and desist order.

Steve

Language for voluntary use in of injection well

Steven R. Bohlen

State Oil and Gas Supervisor

801 K Street, MS 18-05

Sacramento, CA 95814-3530

(916) 445-9686 - Office

(916) 319-9533 - Facsimile

From: moduscampo@ocsnet.net [moduscampo@ocsnet.net]  
Sent: 3/2/2015 1:11:53 PM  
To: Steven.Bohlen@conservation.ca.gov [Steven.Bohlen@conservation.ca.gov]  
Subject: RE: Language for voluntary close in of injection well  
Mr. Bohlen;

We presently are not injecting into our injection well # 107-2 and we have no plans to immediately commence injection into the well. Because the well injects into oil zones that we are producing from in other wells, injection has given us the benefit of a water flood which is pushing oil to our producing wells. The well originally was a producing well from the zones in question. Your suggested text is unacceptable because it waives all of our rights that we have had as a result of our compliance with all D.O.G. regulations concerning the injection well #107-2. Our opinion is that this well should comply with regulations seeking a waiver on the basis that this is a production well in other wells and injection acts as a water flood for those wells.

Thank you for your consideration. We are not looking for a legal fight, but we are unable to accept the terms that you have presented.

Ernest Filippi  
MODUS, INC.

----- Original Message -----

From : Bohlen,  
Steven@DOC[ <mailto:Steven.Bohlen@conservation.ca.gov> ]  
Sent : 3/2/2015 12:20:20 PM  
To : moduscampo@ocsnet.net  
Cc :  
Subject : RE: Language for voluntary close in of injection well

Dear Mr. and Mrs. Filippi,

Thank you for confirming the Division's data concerning your well 107-2 (API 10720109) in the Deer Creek field.

Owing to our IUC well review and the chance that this well could be injecting near a water well according to the Water Board records, and as I discussed with Mr. Filippi late last week, injection into this well must be discontinued immediately and the well shut in. My understanding is the well is currently inactive and therefore not injecting.

Here is what we had in mind for voluntary rescission language to go on company letterhead and be signed by someone with clear authority to speak for the operator:

[OPERATOR] hereby relinquishes any and all approval from the Division of Oil, Gas, and Geothermal Resources (Division) to conduct injection operations in the following wells: [IDENTIFY WELLS BY API NUMBER]. [OPERATOR] acknowledges and accepts that no future injection operations in these wells are permitted without first obtaining approval from the Division. [OPERATOR]'s relinquishment of injection approval is of its own accord, and [OPERATOR] waives any administrative appeals hearing that might have been requested had the approval been rescinded by the Division.

Having this in place will give us some insurance against future confusion about the status of the well. It will also give us an answer to the foreseeable questions from the public about the binding nature of the operators' voluntary shut-ins.

Thank you for your rapid attention to this matter. We need to receive the letter – fax or via email by COB today in lieu of our sending a cease and desist order.

Steve

Steven R. Bohlen  
State Oil and Gas Supervisor  
801 K Street, MS 18-05  
Sacramento, CA 95814-3530  
(916) 445-9686 - Office  
(916) 319-9533 - Facsimile



From: BC Labs Automated LIMS [AutoLIMS@bclabs.com]  
Sent: 4/10/2015 10:29:05 AM  
To: Mary Filippi [moduscampo@ocsnet.net]  
Subject: BC Labs Report/EDD Files for Lab #1506721  
Attachments: WO\_1506721\_FinalReport.pdf (4163.7 Kb)

Mary Filippi,

This is an Automated Email with file attachments regarding the following Work Order:

Work Order: 1506721

Client Project: Lot 109 Domestic Well (SLTF, Inc.)  
COC Number:  
Date Received: 03/19/2015 13:55

Lab Project: Ground Water Samples  
BCL Contact: Misty Orton  
BCL Email: misty.orton@bclabs.com

This email contains the following file attachment(s):  
WO\_1506721\_FinalReport.pdf

This is an Automated Email  
Please send replies to misty.orton@bclabs.com



Date of Report: 04/10/2015

Mary Filippi

Modus Inc

P.O. Box 1809

Porterville, CA 93258

Client Project: Lot 109 Domestic Well (SLTF, Inc.)

BCL Project: Ground Water Samples

BCL Work Order: 1506721

Invoice ID: B200369

Enclosed are the results of analyses for samples received by the laboratory on 3/19/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton

Authorized Signature

Client Service Rep

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



## Table of Contents

### Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	7

### Sample Results

#### 1506721-01 - Domestic Well Sec 21, Lot 109

Volatile Organic Analysis (EPA Method 8260B).....	8
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	9
Total Petroleum Hydrocarbons.....	10
Gas Testing in Water.....	11
Water Analysis (General Chemistry).....	12
Metals Analysis.....	13

### Quality Control Reports

#### Volatile Organic Analysis (EPA Method 8260B)

Method Blank Analysis.....	14
Laboratory Control Sample.....	15
Precision and Accuracy.....	16

#### Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Method Blank Analysis.....	17
Laboratory Control Sample.....	18
Precision and Accuracy.....	19

#### Total Petroleum Hydrocarbons

Method Blank Analysis.....	21
Laboratory Control Sample.....	22
Precision and Accuracy.....	23

#### Gas Testing in Water

Method Blank Analysis.....	24
Laboratory Control Sample.....	25

#### Water Analysis (General Chemistry)

Method Blank Analysis.....	26
Laboratory Control Sample.....	27
Precision and Accuracy.....	28

#### Metals Analysis

Method Blank Analysis.....	29
Laboratory Control Sample.....	30
Precision and Accuracy.....	31

### Subcontract Reports

WO_1506721_SUB_BSKSA.pdf.....	33
WO_1506721_SUB_PACEA.pdf.....	41

### Notes

Notes and Definitions.....	54
----------------------------	----

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



BC LABORATORIES INC.		COOLER RECEIPT FORM		Rev. No. 18	09/04/14	Page	Of
Submission #: <u>15-06721</u>							
<b>SHIPPING INFORMATION</b> Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		<b>FREE LIQUID</b> YES <input type="checkbox"/> NO <input type="checkbox"/>	
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____							
Custody Seals <input checked="" type="checkbox"/> Containers <input checked="" type="checkbox"/> None <input type="checkbox"/> Comments: _____							
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
<input checked="" type="checkbox"/> COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>208</u>		Date/Time: <u>3/19/15</u>		Analyst Init: <u>MVB 1355</u>	
		Temperature: (A) <u>2.9</u> °C / (C) <u>2.7</u> °C					

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4*	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	GH									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS	I									
PT INORGANIC CHEMICAL METALS	J									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC									
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL (Radium 226/228)	KL									
BACTERIOLOGICAL										
40 ml VOA VIAL - 504 <i>unpres</i>	DEF									
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER 8270	MN									
8 OZ. JAR	OP									
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: \_\_\_\_\_  
 Sample Numbering Completed By: MV Date/Time: 3/19/15 @ 1440 (S:WPDocWordPerfect\LAB\_DOCS\FORMS\ISAMREC)  
 A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Mary E. Filippi  
Modus, Inc.

- 6 -

3 March 2015

15-06721

ATTACHMENT A  
Water Quality Sampling, Analysis, and Reporting

Water Quality Sampling

All groundwater sampling is to be performed by a qualified person. A qualified person is any person with the knowledge and training in proper sampling methods, chain of custody, and quality assurance/quality control protocols. Any person conducting groundwater sampling, other than personnel from a certified laboratory, shall consult with the certified laboratory to ensure that the sampler understands and follows the proper sampling collection procedures and protocols. All procedures to sample groundwater supply wells shall be consistent with US EPA Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (March 2013) (available at [www.epa.gov/region04/sesd/fbqstp/Groundwater-Sampling.pdf](http://www.epa.gov/region04/sesd/fbqstp/Groundwater-Sampling.pdf)).

Water Quality Analysis

Groundwater samples collected from wells and injection zones shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program, using current applicable EPA-approved analytical methods. The methods of analysis and the detection limits used shall be appropriate for the expected concentrations. The analytical method having the lowest method detection limit (MDL) shall be selected from among those methods which would provide valid results in light of any matrix effects or interferences. Analyze samples for the following:

- A. Total dissolved solids
- B. Metals listed in California Code of Regulations, title 22, section 66261.24, subdivision (a)(2)(A)
- C. Benzene, toluene, ethylbenzene, and xylenes
- D. Total petroleum hydrocarbons for crude oil
- E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene)
- F. Radionuclides listed under California Code of Regulations, title 22, Table 64442, which includes Gross Alpha particle activity (excluding radon and uranium), Uranium, Radium-226, and Radium-228.
- G. Methane
- H. Major and minor cations (including sodium, potassium, magnesium, and calcium)
- I. Major and minor anions (including nitrate, chloride, sulfate, alkalinity, and bromide)
- J. Trace elements (including lithium, strontium, boron, iron, and manganese)

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Mary E. Filippi  
Modus, Inc.

- 7 -

3 March 2015

Water Quality Reporting

15-06721

Water quality information shall be submitted in a technical report that includes, at a minimum:

- A. Site plan with locations of well(s) sampled.
- B. Description of field sampling procedures.
- C. Table(s) of analytical results organized by well number (including API number).
- D. Copies of analytical laboratory reports, including quality assurance/quality control procedures and analytical test methods.
- E. Waste management and disposal procedures.

( )

( )

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

**Laboratory / Client Sample Cross Reference**

Laboratory	Client Sample Information		Receive Date:	03/19/2015 13:55
1506721-01	COC Number:	---	Sampling Date:	03/19/2015 12:15
	Project Number:	---	Sample Depth:	---
	Sampling Location:	---	Lab Matrix:	Water
	Sampling Point:	Domestic Well Sec 21, Lot 109	Sample Type:	Groundwater
	Sampled By:	Mike Graham	Metal Analysis:	2-Lab Filtered and
			Acidified past 15 minute holding time	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1506721-01		Client Sample Name: Domestic Well Sec 21, Lot 109, 3/19/2015 12:15:00PM, Mike Graham						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260B	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	03/23/15	03/23/15 20:15	JMS	MS-V10	1	BYC1970

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

**Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)**

**BCL Sample ID:** 1506721-01      **Client Sample Name:** Domestic Well Sec 21, Lot 109, 3/19/2015 12:15:00PM, Mike Graham

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.055	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.047	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.017	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.026	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.040	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.051	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.026	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.043	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.022	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.044	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.012	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.030	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.044	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.077	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.022	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.022	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	59.7	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	61.8	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	73.7	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	03/25/15	03/31/15 13:25	MK1	MS-B4	0.970	BYD0018

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1506721-01	<b>Client Sample Name:</b> Domestic Well Sec 21, Lot 109, 3/19/2015 12:15:00PM, Mike Graham
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Crude Oil	ND	ug/L	500	140	EPA-8015B/FFP	ND		1
Tetracosane (Surrogate)	76.8	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/FFP	03/25/15	03/26/15 20:40	MWB	GC-13	1	BYC2331

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
 P.O. Box 1809  
 Porterville, CA 93258

**Reported:** 04/10/2015 9:24  
**Project:** Ground Water Samples  
**Project Number:** Lot 109 Domestic Well (SLTF, Inc.)  
**Project Manager:** Mary Filippi

**Gas Testing in Water**

**BCL Sample ID:** 1506721-01      **Client Sample Name:** Domestic Well Sec 21, Lot 109, 3/19/2015 12:15:00PM, Mike Graham

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methane	0.0018	mg/L	0.0010	0.00028	RSK-175M	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	RSK-175M	03/31/15	03/31/15 14:08	JH2	GC-V1	1	BYC2719

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
 P.O. Box 1809  
 Porterville, CA 93258

Reported: 04/10/2015 9:24  
 Project: Ground Water Samples  
 Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
 Project Manager: Mary Filippi

**Water Analysis (General Chemistry)**

BCL Sample ID: 1506721-01		Client Sample Name: Domestic Well Sec 21, Lot 109, 3/19/2015 12:15:00PM, Mike Graham						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	81	mg/L	0.10	0.016	EPA-200.7	0.034		1
Dissolved Magnesium	19	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	110	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	EPA-310.1	ND		2
Bromide	0.55	mg/L	0.10	0.035	EPA-300.0	ND		3
Chloride	160	mg/L	0.50	0.061	EPA-300.0	ND		3
Nitrate as N	4.9	mg/L	0.10	0.018	EPA-300.0	ND		3
Sulfate	7.6	mg/L	1.0	0.10	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	580	mg/L	33	33	EPA-160.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	03/26/15	03/27/15 18:29	JRG	PE-OP2	1	BYC2532
2	EPA-310.1	03/25/15	03/25/15 08:58	RML	MET-1	1	BYC2143
3	EPA-300.0	03/19/15	03/19/15 23:09	BMW	IC2	1	BYC1881
4	EPA-160.1	03/23/15	03/23/15 13:30	CAD	MANUAL	3.333	BYC2043

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Metals Analysis

BCL Sample ID: 1506721-01		Client Sample Name: Domestic Well Sec 21, Lot 109, 3/19/2015 12:15:00PM, Mike Graham						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	2.0	0.065	EPA-200.8	ND		1
Dissolved Arsenic	0.55	ug/L	2.0	0.38	EPA-200.8	ND	J	1
Dissolved Barium	110	ug/L	1.0	0.066	EPA-200.8	ND		2
Dissolved Beryllium	ND	ug/L	1.0	0.050	EPA-200.8	ND		1
Dissolved Boron	780	ug/L	100	10	EPA-200.7	ND		3
Dissolved Cadmium	ND	ug/L	1.0	0.034	EPA-200.8	ND		1
Dissolved Chromium	1.6	ug/L	3.0	0.15	EPA-200.8	0.16	J	1
Dissolved Cobalt	0.10	ug/L	1.0	0.011	EPA-200.8	ND	J	1
Dissolved Copper	0.53	ug/L	2.0	0.32	EPA-200.8	ND	J	1
Dissolved Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Dissolved Lead	ND	ug/L	1.0	0.021	EPA-200.8	ND		1
Dissolved Manganese	14	ug/L	1.0	0.040	EPA-200.8	0.049		1
Dissolved Mercury	ND	ug/L	0.20	0.033	EPA-245.1	ND		4
Dissolved Molybdenum	7.4	ug/L	1.0	0.033	EPA-200.8	ND		1
Dissolved Nickel	1.4	ug/L	2.0	0.15	EPA-200.8	ND	J	1
Dissolved Selenium	0.64	ug/L	2.0	0.25	EPA-200.8	ND	J	1
Dissolved Silver	ND	ug/L	1.0	0.015	EPA-200.8	ND		1
Dissolved Thallium	ND	ug/L	1.0	0.025	EPA-200.8	ND		1
Dissolved Vanadium	3.7	ug/L	3.0	0.39	EPA-200.8	0.71		1
Dissolved Zinc	55	ug/L	5.0	2.2	EPA-200.8	ND		1
Total Recoverable Lithium	ND	ug/L	20	6.6	EPA-200.7	ND		5
Total Recoverable Strontium	520	ug/L	10	1.0	EPA-200.7	ND		5
Total Recoverable Uranium	11	pCi/L	0.67	0.067	EPA-200.8	ND		6

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.8	03/26/15	03/26/15	21:51	SRM	PE-EL2	1	BYC2431
2	EPA-200.8	03/26/15	03/27/15	12:02	EAR	PE-EL2	1	BYC2431
3	EPA-200.7	03/26/15	03/27/15	18:29	JRG	PE-OP2	1	BYC2532
4	EPA-245.1	03/25/15	03/25/15	16:01	MEV	CETAC1	1	BYC2290
5	EPA-200.7	03/24/15	03/24/15	18:45	JRG	PE-OP2	1	BYC2158
6	EPA-200.8	03/23/15	03/23/15	18:30	SRM	PE-EL2	1	BYC2032

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC1970</b>						
Benzene	BYC1970-BLK1	ND	ug/L	0.50	0.083	
Ethylbenzene	BYC1970-BLK1	ND	ug/L	0.50	0.098	
Toluene	BYC1970-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BYC1970-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BYC1970-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYC1970-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BYC1970-BLK1	91.9	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BYC1970-BLK1	99.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BYC1970-BLK1	93.7	%	80 - 120 (LCL - UCL)		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BYC1970</b>										
Benzene	BYC1970-BS1	LCS	25.650	25.000	ug/L	103		70 - 130		
Toluene	BYC1970-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BYC1970-BS1	LCS	9.1200	10.000	ug/L	91.2		75 - 125		
Toluene-d8 (Surrogate)	BYC1970-BS1	LCS	9.7200	10.000	ug/L	97.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	BYC1970-BS1	LCS	10.500	10.000	ug/L	105		80 - 120		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
<b>QC Batch ID: BYC1970</b>		Used client sample: N									
Benzene	MS	1506771-09	ND	30.620	25.000	ug/L		122			70 - 130
	MSD	1506771-09	ND	29.960	25.000	ug/L	2.2	120	20		70 - 130
Toluene	MS	1506771-09	ND	31.560	25.000	ug/L		126			70 - 130
	MSD	1506771-09	ND	30.030	25.000	ug/L	5.0	120	20		70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1506771-09	ND	9.4900	10.000	ug/L		94.9			75 - 125
	MSD	1506771-09	ND	9.7000	10.000	ug/L	2.2	97.0			75 - 125
Toluene-d8 (Surrogate)	MS	1506771-09	ND	9.9900	10.000	ug/L		99.9			80 - 120
	MSD	1506771-09	ND	9.7100	10.000	ug/L	2.8	97.1			80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1506771-09	ND	10.280	10.000	ug/L		103			80 - 120
	MSD	1506771-09	ND	10.020	10.000	ug/L	2.6	100			80 - 120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
 P.O. Box 1809  
 Porterville, CA 93258

 Reported: 04/10/2015 9:24  
 Project: Ground Water Samples  
 Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
 Project Manager: Mary Filippi

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYD0018</b>						
Acenaphthene	BYD0018-BLK1	ND	ug/L	0.10	0.055	
Acenaphthylene	BYD0018-BLK1	ND	ug/L	0.10	0.047	
Anthracene	BYD0018-BLK1	ND	ug/L	0.10	0.017	
Benzo[a]anthracene	BYD0018-BLK1	ND	ug/L	0.10	0.026	
Benzo[b]fluoranthene	BYD0018-BLK1	ND	ug/L	0.10	0.040	
Benzo[k]fluoranthene	BYD0018-BLK1	ND	ug/L	0.10	0.051	
Benzo[a]pyrene	BYD0018-BLK1	ND	ug/L	0.10	0.026	
Benzo[g,h,i]perylene	BYD0018-BLK1	ND	ug/L	0.10	0.043	
Chrysene	BYD0018-BLK1	ND	ug/L	0.10	0.022	
Dibenzo[a,h]anthracene	BYD0018-BLK1	ND	ug/L	0.10	0.044	
Fluoranthene	BYD0018-BLK1	ND	ug/L	0.10	0.012	
Fluorene	BYD0018-BLK1	ND	ug/L	0.10	0.030	
Indeno[1,2,3-cd]pyrene	BYD0018-BLK1	ND	ug/L	0.10	0.044	
Naphthalene	BYD0018-BLK1	ND	ug/L	0.10	0.077	
Phenanthrene	BYD0018-BLK1	ND	ug/L	0.10	0.022	
Pyrene	BYD0018-BLK1	ND	ug/L	0.10	0.022	
Nitrobenzene-d5 (Surrogate)	BYD0018-BLK1	56.4	%	40 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BYD0018-BLK1	55.5	%	40 - 130 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BYD0018-BLK1	63.6	%	40 - 130 (LCL - UCL)		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
 P.O. Box 1809  
 Porterville, CA 93258

 Reported: 04/10/2015 9:24  
 Project: Ground Water Samples  
 Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
 Project Manager: Mary Filippi

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BYD0018</b>										
Acenaphthene	BYD0018-BS1	LCS	0.69439	1.0000	ug/L	69.4		60 - 110		
Acenaphthylene	BYD0018-BS1	LCS	0.69850	1.0000	ug/L	69.9		56 - 120		
Anthracene	BYD0018-BS1	LCS	0.76715	1.0000	ug/L	76.7		57 - 128		
Benzo[a]anthracene	BYD0018-BS1	LCS	0.74610	1.0000	ug/L	74.6		64 - 130		
Benzo[b]fluoranthene	BYD0018-BS1	LCS	0.84450	1.0000	ug/L	84.4		50 - 130		
Benzo[k]fluoranthene	BYD0018-BS1	LCS	0.80362	1.0000	ug/L	80.4		60 - 120		
Benzo[a]pyrene	BYD0018-BS1	LCS	0.80465	1.0000	ug/L	80.5		60 - 125		
Benzo[g,h,i]perylene	BYD0018-BS1	LCS	0.44971	1.0000	ug/L	45.0		44 - 120		
Chrysene	BYD0018-BS1	LCS	0.72854	1.0000	ug/L	72.9		60 - 110		
Dibenzo[a,h]anthracene	BYD0018-BS1	LCS	0.52846	1.0000	ug/L	52.8		40 - 120		
Fluoranthene	BYD0018-BS1	LCS	0.75726	1.0000	ug/L	75.7		60 - 120		
Fluorene	BYD0018-BS1	LCS	0.77739	1.0000	ug/L	77.7		60 - 120		
Indeno[1,2,3-cd]pyrene	BYD0018-BS1	LCS	0.50054	1.0000	ug/L	50.1		40 - 130		
Naphthalene	BYD0018-BS1	LCS	0.67254	1.0000	ug/L	67.3		60 - 110		
Phenanthrene	BYD0018-BS1	LCS	0.71285	1.0000	ug/L	71.3		60 - 120		
Pyrene	BYD0018-BS1	LCS	0.83606	1.0000	ug/L	83.6		50 - 125		
Nitrobenzene-d5 (Surrogate)	BYD0018-BS1	LCS	2.6547	4.0000	ug/L	66.4		40 - 130		
2-Fluorobiphenyl (Surrogate)	BYD0018-BS1	LCS	2.4887	4.0000	ug/L	62.2		40 - 130		
p-Terphenyl-d14 (Surrogate)	BYD0018-BS1	LCS	3.0407	4.0000	ug/L	76.0		40 - 130		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

**Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)**

**Quality Control Report - Precision & Accuracy**

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYD0018</b>		Used client sample: N								
Acenaphthene	MS	1506890-18	ND	0.74059	1.0000	ug/L		74.1		61 - 110
	MSD	1506890-18	ND	0.87855	1.0000	ug/L	17.0	87.9	30	61 - 110
Acenaphthylene	MS	1506890-18	ND	0.74021	1.0000	ug/L		74.0		60 - 120
	MSD	1506890-18	ND	0.87298	1.0000	ug/L	16.5	87.3	30	60 - 120
Anthracene	MS	1506890-18	ND	0.82342	1.0000	ug/L		82.3		61 - 120
	MSD	1506890-18	ND	0.97646	1.0000	ug/L	17.0	97.6	30	61 - 120
Benzo[a]anthracene	MS	1506890-18	ND	0.75932	1.0000	ug/L		75.9		56 - 121
	MSD	1506890-18	ND	0.92511	1.0000	ug/L	19.7	92.5	30	56 - 121
Benzo[b]fluoranthene	MS	1506890-18	ND	0.88597	1.0000	ug/L		88.6		50 - 130
	MSD	1506890-18	ND	1.0562	1.0000	ug/L	17.5	106	30	50 - 130
Benzo[k]fluoranthene	MS	1506890-18	ND	0.87564	1.0000	ug/L		87.6		60 - 120
	MSD	1506890-18	ND	1.0249	1.0000	ug/L	15.7	102	30	60 - 120
Benzo[a]pyrene	MS	1506890-18	ND	0.84276	1.0000	ug/L		84.3		60 - 120
	MSD	1506890-18	ND	1.0174	1.0000	ug/L	18.8	102	30	60 - 120
Benzo[g,h,i]perylene	MS	1506890-18	ND	0.48279	1.0000	ug/L		48.3		45 - 120
	MSD	1506890-18	ND	0.63969	1.0000	ug/L	28.0	64.0	30	45 - 120
Chrysene	MS	1506890-18	ND	0.77168	1.0000	ug/L		77.2		60 - 110
	MSD	1506890-18	ND	0.92969	1.0000	ug/L	18.6	93.0	30	60 - 110
Dibenzo[a,h]anthracene	MS	1506890-18	ND	0.58751	1.0000	ug/L		58.8		40 - 120
	MSD	1506890-18	ND	0.81241	1.0000	ug/L	32.1	81.2	30	40 - 120 Q02
Fluoranthene	MS	1506890-18	ND	0.78816	1.0000	ug/L		78.8		60 - 120
	MSD	1506890-18	ND	0.94300	1.0000	ug/L	17.9	94.3	30	60 - 120
Fluorene	MS	1506890-18	ND	0.82499	1.0000	ug/L		82.5		60 - 120
	MSD	1506890-18	ND	0.94789	1.0000	ug/L	13.9	94.8	30	60 - 120
Indeno[1,2,3-cd]pyrene	MS	1506890-18	ND	0.51442	1.0000	ug/L		51.4		40 - 130
	MSD	1506890-18	ND	0.69872	1.0000	ug/L	30.4	69.9	30	40 - 130 Q02
Naphthalene	MS	1506890-18	ND	0.70096	1.0000	ug/L		70.1		60 - 110
	MSD	1506890-18	ND	0.84401	1.0000	ug/L	18.5	84.4	30	60 - 110
Phenanthrene	MS	1506890-18	ND	0.75532	1.0000	ug/L		75.5		60 - 120
	MSD	1506890-18	ND	0.90099	1.0000	ug/L	17.6	90.1	30	60 - 120
Pyrene	MS	1506890-18	ND	0.88485	1.0000	ug/L		88.5		50 - 125
	MSD	1506890-18	ND	1.0111	1.0000	ug/L	13.3	101	30	50 - 125
Nitrobenzene-d5 (Surrogate)	MS	1506890-18	ND	2.7185	4.0000	ug/L		68.0		40 - 130
	MSD	1506890-18	ND	3.2987	4.0000	ug/L	19.3	82.5		40 - 130
2-Fluorobiphenyl (Surrogate)	MS	1506890-18	ND	2.5994	4.0000	ug/L		65.0		40 - 130
	MSD	1506890-18	ND	3.1533	4.0000	ug/L	19.3	78.8		40 - 130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BYD0018</b>		Used client sample: N								
p-Terphenyl-d14 (Surrogate)	MS	1506890-18	ND	3.2432	4.0000	ug/L		81.1		40 - 130
	MSD	1506890-18	ND	3.7104	4.0000	ug/L	13.4	92.8		40 - 130

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Total Petroleum Hydrocarbons

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC2331</b>						
TPH - Diesel (FFP)	BYC2331-BLK1	ND	ug/L	200	34	
TPH - Crude Oil	BYC2331-BLK1	ND	ug/L	500	140	
Tetracosane (Surrogate)	BYC2331-BLK1	71.0	%	37 - 134 (LCL - UCL)		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Total Petroleum Hydrocarbons

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2331</b>										
TPH - Diesel (FFP)	BYC2331-BS1	LCS	1753.4	2500.0	ug/L	70.1		52 - 128		
Tetracosane (Surrogate)	BYC2331-BS1	LCS	62.130	100.00	ug/L	62.1		37 - 134		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Total Petroleum Hydrocarbons

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2331</b>		Used client sample: N								
TPH - Diesel (FFP)	MS	1506890-09	ND	1686.6	2500.0	ug/L		67.5		50 - 127
	MSD	1506890-09	ND	1568.6	2500.0	ug/L	7.2	62.7	24	50 - 127
Tetracosane (Surrogate)	MS	1506890-09	ND	66.110	100.00	ug/L		66.1		37 - 134
	MSD	1506890-09	ND	64.230	100.00	ug/L	2.9	64.2		37 - 134

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Gas Testing in Water

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC2719</b>						
Methane	BYC2719-BLK1	ND	mg/L	0.0010	0.00028	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
 P.O. Box 1809  
 Porterville, CA 93258

Reported: 04/10/2015 9:24  
 Project: Ground Water Samples  
 Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
 Project Manager: Mary Filippi

**Gas Testing in Water**

**Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2719</b>										
Methane	BYC2719-BS1	LCS	0.011856	0.010843	mg/L	109		80 - 120		
	BYC2719-BSD1	LCSD	0.011495	0.010843	mg/L	106	3.1	80 - 120		20

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:24  
**Project:** Ground Water Samples  
**Project Number:** Lot 109 Domestic Well (SLTF, Inc.)  
**Project Manager:** Mary Filippi

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC1881</b>						
Bromide	BYC1881-BLK1	ND	mg/L	0.10	0.035	
Chloride	BYC1881-BLK1	ND	mg/L	0.50	0.061	
Nitrate as N	BYC1881-BLK1	ND	mg/L	0.10	0.018	
Sulfate	BYC1881-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: BYC2043</b>						
Total Dissolved Solids @ 180 C	BYC2043-BLK1	ND	mg/L	6.7	6.7	
<b>QC Batch ID: BYC2143</b>						
Total Alkalinity as CaCO3	BYC2143-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: BYC2532</b>						
Dissolved Calcium	BYC2532-BLK1	0.034078	mg/L	0.10	0.016	J
Dissolved Magnesium	BYC2532-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BYC2532-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BYC2532-BLK1	ND	mg/L	1.0	0.10	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC1881</b>										
Bromide	BYC1881-BS1	LCS	2.0490	2.0000	mg/L	102		90 - 110		
Chloride	BYC1881-BS1	LCS	49.554	50.000	mg/L	99.1		90 - 110		
Nitrate as N	BYC1881-BS1	LCS	4.9770	5.0000	mg/L	99.5		90 - 110		
Sulfate	BYC1881-BS1	LCS	98.981	100.00	mg/L	99.0		90 - 110		
<b>QC Batch ID: BYC2043</b>										
Total Dissolved Solids @ 180 C	BYC2043-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
<b>QC Batch ID: BYC2143</b>										
Total Alkalinity as CaCO3	BYC2143-BS3	LCS	106.95	100.00	mg/L	107		90 - 110		
<b>QC Batch ID: BYC2532</b>										
Dissolved Calcium	BYC2532-BS1	LCS	9.8963	10.000	mg/L	99.0		85 - 115		
Dissolved Magnesium	BYC2532-BS1	LCS	10.507	10.000	mg/L	105		85 - 115		
Dissolved Sodium	BYC2532-BS1	LCS	9.9204	10.000	mg/L	99.2		85 - 115		
Dissolved Potassium	BYC2532-BS1	LCS	9.4952	10.000	mg/L	95.0		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC1881</b>		Used client sample: N								
Bromide	DUP	1506712-01	ND	ND		mg/L			10	
	MS	1506712-01	ND	2.2020	2.0202	mg/L		109		80 - 120
	MSD	1506712-01	ND	2.2000	2.0202	mg/L	0.1	109	10	80 - 120
Chloride	DUP	1506712-01	54.210	54.124		mg/L	0.2		10	
	MS	1506712-01	54.210	107.06	50.505	mg/L		105		80 - 120
	MSD	1506712-01	54.210	106.99	50.505	mg/L	0.1	105	10	80 - 120
Nitrate as N	DUP	1506712-01	4.6750	4.7130		mg/L	0.8		10	
	MS	1506712-01	4.6750	9.8263	5.0505	mg/L		102		80 - 120
	MSD	1506712-01	4.6750	9.8253	5.0505	mg/L	0.0	102	10	80 - 120
Sulfate	DUP	1506712-01	63.255	62.898		mg/L	0.6		10	
	MS	1506712-01	63.255	170.11	101.01	mg/L		106		80 - 120
	MSD	1506712-01	63.255	169.91	101.01	mg/L	0.1	106	10	80 - 120
<b>QC Batch ID: BYC2043</b>		Used client sample: N								
Total Dissolved Solids @ 180 C	DUP	1506681-01	1240.0	1255.0		mg/L	1.2		10	
<b>QC Batch ID: BYC2143</b>		Used client sample: N								
Total Alkalinity as CaCO3	DUP	1507048-01	181.04	168.56		mg/L	7.1		10	
<b>QC Batch ID: BYC2532</b>		Used client sample: N								
Dissolved Calcium	DUP	1506947-01	87.111	86.053		mg/L	1.2		20	
	MS	1506947-01	87.111	91.443	10.204	mg/L		42.5		85 - 115 A03
	MSD	1506947-01	87.111	90.248	10.204	mg/L	1.3	30.7	20	85 - 115 A03
Dissolved Magnesium	DUP	1506947-01	17.169	16.936		mg/L	1.4		20	
	MS	1506947-01	17.169	27.109	10.204	mg/L		97.4		85 - 115
	MSD	1506947-01	17.169	26.863	10.204	mg/L	0.9	95.0	20	85 - 115
Dissolved Sodium	DUP	1506947-01	170.78	169.32		mg/L	0.9		20	
	MS	1506947-01	170.78	169.55	10.204	mg/L		-12.1		85 - 115 A03
	MSD	1506947-01	170.78	167.46	10.204	mg/L	1.2	-32.6	20	85 - 115 A03
Dissolved Potassium	DUP	1506947-01	5.3435	5.2968		mg/L	0.9		20	
	MS	1506947-01	5.3435	15.788	10.204	mg/L		102		85 - 115
	MSD	1506947-01	5.3435	15.728	10.204	mg/L	0.4	102	20	85 - 115

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC2032</b>						
Total Recoverable Uranium	BYC2032-BLK1	ND	pCi/L	0.67	0.067	
<b>QC Batch ID: BYC2158</b>						
Total Recoverable Lithium	BYC2158-BLK1	ND	ug/L	20	6.6	
Total Recoverable Strontium	BYC2158-BLK1	ND	ug/L	10	1.0	
<b>QC Batch ID: BYC2290</b>						
Dissolved Mercury	BYC2290-BLK1	ND	ug/L	0.20	0.033	
<b>QC Batch ID: BYC2431</b>						
Dissolved Antimony	BYC2431-BLK1	ND	ug/L	2.0	0.065	
Dissolved Arsenic	BYC2431-BLK1	ND	ug/L	2.0	0.38	
Dissolved Barium	BYC2431-BLK2	ND	ug/L	1.0	0.066	
Dissolved Beryllium	BYC2431-BLK1	ND	ug/L	1.0	0.050	
Dissolved Cadmium	BYC2431-BLK1	ND	ug/L	1.0	0.034	
Dissolved Chromium	BYC2431-BLK1	0.15800	ug/L	3.0	0.15	J
Dissolved Cobalt	BYC2431-BLK1	ND	ug/L	1.0	0.011	
Dissolved Copper	BYC2431-BLK1	ND	ug/L	2.0	0.32	
Dissolved Lead	BYC2431-BLK1	ND	ug/L	1.0	0.021	
Dissolved Manganese	BYC2431-BLK1	0.049000	ug/L	1.0	0.040	J
Dissolved Molybdenum	BYC2431-BLK1	ND	ug/L	1.0	0.033	
Dissolved Nickel	BYC2431-BLK1	ND	ug/L	2.0	0.15	
Dissolved Selenium	BYC2431-BLK1	ND	ug/L	2.0	0.25	
Dissolved Silver	BYC2431-BLK1	ND	ug/L	1.0	0.015	
Dissolved Thallium	BYC2431-BLK1	ND	ug/L	1.0	0.025	
Dissolved Vanadium	BYC2431-BLK1	0.71400	ug/L	3.0	0.39	J
Dissolved Zinc	BYC2431-BLK1	ND	ug/L	5.0	2.2	
<b>QC Batch ID: BYC2532</b>						
Dissolved Boron	BYC2532-BLK1	ND	ug/L	100	10	
Dissolved Iron	BYC2532-BLK1	ND	ug/L	50	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
<b>QC Batch ID: BYC2032</b>									
Total Recoverable Uranium	BYC2032-BS1	LCS	27.310	26.800	pCi/L	102		85 - 115	
<b>QC Batch ID: BYC2158</b>									
Total Recoverable Lithium	BYC2158-BS1	LCS	213.27	200.00	ug/L	107		85 - 115	
Total Recoverable Strontium	BYC2158-BS1	LCS	509.13	500.00	ug/L	102		85 - 115	
<b>QC Batch ID: BYC2290</b>									
Dissolved Mercury	BYC2290-BS1	LCS	0.97500	1.0000	ug/L	97.5		85 - 115	
<b>QC Batch ID: BYC2431</b>									
Dissolved Antimony	BYC2431-BS1	LCS	43.056	40.000	ug/L	108		85 - 115	
Dissolved Arsenic	BYC2431-BS1	LCS	104.87	100.00	ug/L	105		85 - 115	
Dissolved Barium	BYC2431-BS2	LCS	42.739	40.000	ug/L	107		85 - 115	
Dissolved Beryllium	BYC2431-BS1	LCS	44.695	40.000	ug/L	112		85 - 115	
Dissolved Cadmium	BYC2431-BS1	LCS	43.587	40.000	ug/L	109		85 - 115	
Dissolved Chromium	BYC2431-BS1	LCS	43.378	40.000	ug/L	108		85 - 115	
Dissolved Cobalt	BYC2431-BS1	LCS	42.622	40.000	ug/L	107		85 - 115	
Dissolved Copper	BYC2431-BS1	LCS	108.92	100.00	ug/L	109		85 - 115	
Dissolved Lead	BYC2431-BS1	LCS	109.48	100.00	ug/L	109		85 - 115	
Dissolved Manganese	BYC2431-BS1	LCS	110.43	100.00	ug/L	110		85 - 115	
Dissolved Molybdenum	BYC2431-BS1	LCS	42.286	40.000	ug/L	106		85 - 115	
Dissolved Nickel	BYC2431-BS1	LCS	108.63	100.00	ug/L	109		85 - 115	
Dissolved Selenium	BYC2431-BS1	LCS	102.31	100.00	ug/L	102		85 - 115	
Dissolved Silver	BYC2431-BS1	LCS	43.671	40.000	ug/L	109		85 - 115	
Dissolved Thallium	BYC2431-BS1	LCS	41.854	40.000	ug/L	105		85 - 115	
Dissolved Vanadium	BYC2431-BS1	LCS	43.001	40.000	ug/L	108		85 - 115	
Dissolved Zinc	BYC2431-BS1	LCS	106.82	100.00	ug/L	107		85 - 115	
<b>QC Batch ID: BYC2532</b>									
Dissolved Boron	BYC2532-BS1	LCS	1025.7	1000.0	ug/L	103		85 - 115	
Dissolved Iron	BYC2532-BS1	LCS	1096.9	1000.0	ug/L	110		85 - 115	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

**Metals Analysis**

**Quality Control Report - Precision & Accuracy**

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2032</b>		Used client sample: N								
Total Recoverable Uranium	DUP	1506673-01	4.3999	4.3456		pCi/L	1.2		20	
	MS	1506673-01	4.3999	31.676	26.800	pCi/L		102		70 - 130
	MSD	1506673-01	4.3999	31.724	26.800	pCi/L	0.2	102	20	70 - 130
<b>QC Batch ID: BYC2158</b>		Used client sample: N								
Total Recoverable Lithium	DUP	1506834-01	ND	6.6508		ug/L			20	J
	MS	1506834-01	ND	200.51	200.00	ug/L		100		75 - 125
	MSD	1506834-01	ND	203.66	200.00	ug/L	1.6	102	20	75 - 125
Total Recoverable Strontium	DUP	1506834-01	897.05	873.82		ug/L	2.6		20	
	MS	1506834-01	897.05	1356.4	500.00	ug/L		91.9		75 - 125
	MSD	1506834-01	897.05	1385.7	500.00	ug/L	2.1	97.7	20	75 - 125
<b>QC Batch ID: BYC2290</b>		Used client sample: N								
Dissolved Mercury	DUP	1506916-08	ND	ND		ug/L			20	
	MS	1506916-08	ND	0.99250	1.0000	ug/L		99.2		70 - 130
	MSD	1506916-08	ND	0.99000	1.0000	ug/L	0.3	99.0	20	70 - 130
<b>QC Batch ID: BYC2431</b>		Used client sample: N								
Dissolved Antimony	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	45.668	40.816	ug/L		112		70 - 130
	MSD	1506945-03	ND	47.254	40.816	ug/L	3.4	116	20	70 - 130
Dissolved Arsenic	DUP	1506945-03	2.7200	2.9970		ug/L	9.7		20	
	MS	1506945-03	2.7200	128.25	102.04	ug/L		123		70 - 130
	MSD	1506945-03	2.7200	124.27	102.04	ug/L	3.1	119	20	70 - 130
Dissolved Barium	DUP	1506945-03	227.97	231.76		ug/L	1.6		20	
	MS	1506945-03	227.97	267.13	40.816	ug/L		95.9		70 - 130
	MSD	1506945-03	227.97	271.32	40.816	ug/L	1.6	106	20	70 - 130
Dissolved Beryllium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	46.172	40.816	ug/L		113		70 - 130
	MSD	1506945-03	ND	46.198	40.816	ug/L	0.1	113	20	70 - 130
Dissolved Cadmium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	45.554	40.816	ug/L		112		70 - 130
	MSD	1506945-03	ND	47.162	40.816	ug/L	3.5	116	20	70 - 130
Dissolved Chromium	DUP	1506945-03	1.8060	1.5440		ug/L	15.6		20	J
	MS	1506945-03	1.8060	41.306	40.816	ug/L		96.8		70 - 130
	MSD	1506945-03	1.8060	40.728	40.816	ug/L	1.4	95.4	20	70 - 130
Dissolved Cobalt	DUP	1506945-03	1.0670	1.0620		ug/L	0.5		20	
	MS	1506945-03	1.0670	40.679	40.816	ug/L		97.0		70 - 130
	MSD	1506945-03	1.0670	40.020	40.816	ug/L	1.6	95.4	20	70 - 130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:24  
Project: Ground Water Samples  
Project Number: Lot 109 Domestic Well (SLTF, Inc.)  
Project Manager: Mary Filippi

### Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2431</b>		Used client sample: N								
Dissolved Copper	DUP	1506945-03	0.33600	0.32500		ug/L	3.3		20	J
	MS	1506945-03	0.33600	106.88	102.04	ug/L		104		70 - 130
	MSD	1506945-03	0.33600	104.30	102.04	ug/L	2.4	102	20	70 - 130
Dissolved Lead	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	102.87	102.04	ug/L		101		70 - 130
	MSD	1506945-03	ND	105.66	102.04	ug/L	2.7	104	20	70 - 130
Dissolved Manganese	DUP	1506945-03	89.940	91.861		ug/L	2.1		20	
	MS	1506945-03	89.940	192.84	102.04	ug/L		101		70 - 130
	MSD	1506945-03	89.940	188.05	102.04	ug/L	2.5	96.1	20	70 - 130
Dissolved Molybdenum	DUP	1506945-03	0.91400	0.90900		ug/L	0.5		20	J
	MS	1506945-03	0.91400	44.581	40.816	ug/L		107		70 - 130
	MSD	1506945-03	0.91400	45.626	40.816	ug/L	2.3	110	20	70 - 130
Dissolved Nickel	DUP	1506945-03	3.8360	3.8520		ug/L	0.4		20	
	MS	1506945-03	3.8360	102.61	102.04	ug/L		96.8		70 - 130
	MSD	1506945-03	3.8360	101.38	102.04	ug/L	1.2	95.6	20	70 - 130
Dissolved Selenium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	132.61	102.04	ug/L		130		70 - 130
	MSD	1506945-03	ND	128.83	102.04	ug/L	2.9	126	20	70 - 130
Dissolved Silver	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	42.036	40.816	ug/L		103		70 - 130
	MSD	1506945-03	ND	41.821	40.816	ug/L	0.5	102	20	70 - 130
Dissolved Thallium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	39.887	40.816	ug/L		97.7		70 - 130
	MSD	1506945-03	ND	41.049	40.816	ug/L	2.9	101	20	70 - 130
Dissolved Vanadium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	39.488	40.816	ug/L		96.7		70 - 130
	MSD	1506945-03	ND	38.982	40.816	ug/L	1.3	95.5	20	70 - 130
Dissolved Zinc	DUP	1506945-03	2.3370	2.2960		ug/L	1.8		20	J
	MS	1506945-03	2.3370	125.02	102.04	ug/L		120		70 - 130
	MSD	1506945-03	2.3370	121.14	102.04	ug/L	3.2	116	20	70 - 130
<b>QC Batch ID: BYC2532</b>		Used client sample: N								
Dissolved Boron	DUP	1506947-01	46.058	44.182		ug/L	4.2		20	J
	MS	1506947-01	46.058	1146.3	1020.4	ug/L		108		85 - 115
	MSD	1506947-01	46.058	1134.2	1020.4	ug/L	1.1	107	20	85 - 115
Dissolved Iron	DUP	1506947-01	ND	ND		ug/L			20	
	MS	1506947-01	ND	1117.0	1020.4	ug/L		109		85 - 115
	MSD	1506947-01	ND	1119.3	1020.4	ug/L	0.2	110	20	85 - 115

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



BSK Associates Fresno  
1414 Stanislaus St  
Fresno, CA93706  
559-497-2888 (Main)  
559-485-6935 (FAX)

**A5C1801**  
4/06/2015  
Invoice: A506911

Misty Orton  
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

**RE: Report for A5C1801 General: Project Manager-Misty Orton**

Dear Misty Orton,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/23/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Kijuana Hartshorn, Project Coordinator

If additional clarification of any information is required, please contact your Project Manager, Stephane Maupas, at (800) 877-8310 or (559) 497-2888 x212.



Accredited in Accordance with NELAP  
ORELAP #4021

A5C1801 FINAL 04062015 1611  
Printed: 4/6/2015  
QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 1 of 8

**A5C1801**

General: Project Manager-Misty Orton

**Case Narrative**

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: BC Laboratories  
 Report To: Misty Orton  
 Project #: 1506721  
 Received: 3/23/2015 - 09:35  
 Report Due: 4/06/2015

Invoice To: BC Laboratories  
 Invoice Attn: Misty Orton  
 Project PO#: -

**Sample Receipt Conditions**

Cooler: Default Cooler  
 Temperature on Receipt °C: 13.9

Containers Intact  
 COC/Labels Agree  
 Received On Wet Ice  
 Packing Material - Bubble Wrap  
 Sample(s) were received in temperature range.  
 Initial receipt at BSK-FAL

**Data Qualifiers**

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

**Report Distribution**

Recipient(s)	Report Format	CC:
Misty Orton	FINAL.RPT	

A5C1801 FINAL 04062015 1611

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 2 of 8

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

**A5C1801**

General: Project Manager-Misty Orton  
1506721

**Certificate of Analysis**

Sample ID: A5C1801-01  
Sampled By: Client  
Sample Description: 1506721-01

Sample Date - Time: 03/19/15 - 12:15  
Matrix: Water  
Sample Type: Grab

**BSK Associates Fresno**  
**Radiological**

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Gross Alpha	EPA 00-02	13.8	pCi/L	A503420	03/27/15	03/30/15	
1.65 Sigma Uncertainty		0.592	±				
MDA95		1.07	pCi/L				

A5C1801 FINAL 04062015 1611

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 3 of 8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



**A5C1801**

General: Project Manager-Misty Orton

**BSK Associates Fresno  
Radiological Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	--------	-----	-------	---------------	------

**EPA 00-02 - Quality Control**

Batch: A503420  
Prep Method: EPA 00-02

Prepared: 3/27/2015  
Analyst: SAB

**Blank (A503420-BLK1)**

1.65 Sigma Uncertainty	ND			±						03/30/15	
Gross Alpha	ND	3	pCi/L							03/30/15	
MDA95	ND	0.00	pCi/L							03/30/15	

**Blank Spike (A503420-BS1)**

Gross Alpha	29.9	3	pCi/L	30		100	80-120			03/30/15	
-------------	------	---	-------	----	--	-----	--------	--	--	----------	--

**Blank Spike Dup (A503420-BSD1)**

Gross Alpha	26.8	3	pCi/L	30		89	80-120	11	50	03/30/15	
-------------	------	---	-------	----	--	----	--------	----	----	----------	--

**Matrix Spike (A503420-MS1), Source: A5C1443-01**

Gross Alpha	80.7	3	pCi/L	120	ND	67	70-130			03/30/15	MS1.0 Low
-------------	------	---	-------	-----	----	----	--------	--	--	----------	-----------

**Matrix Spike (A503420-MS2), Source: A5C1781-03**

Gross Alpha	82.8	3	pCi/L	120	ND	67	70-130			03/30/15	MS1.0 Low
-------------	------	---	-------	-----	----	----	--------	--	--	----------	-----------

**Matrix Spike Dup (A503420-MSD1), Source: A5C1443-01**

Gross Alpha	104	3	pCi/L	120	ND	87	70-130	25	50	03/30/15	
-------------	-----	---	-------	-----	----	----	--------	----	----	----------	--

**Matrix Spike Dup (A503420-MSD2), Source: A5C1781-03**

Gross Alpha	81.8	3	pCi/L	120	ND	66	70-130	1	50	03/30/15	MS1.0 Low
-------------	------	---	-------	-----	----	----	--------	---	----	----------	-----------

A5C1801 FINAL 04062015 1611

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 4 of 8



**A5C1801**

General: Project Manager-Misty Orton

**Certificate of Analysis**

**Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

**Definitions**

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

BSK is not accredited under the NELAC program for the following parameters: **\*\*NA\*\***

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

**Fresno**

State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792015-1	State of Oregon - NELAC	4021
EPA - UCMR3	CA00079	State of Washington	C997-14

**Sacramento**

State of California - ELAP	2435
----------------------------	------

**Vancouver**

State of Oregon - NELAC	WA100008	State of Washington	C824-13
-------------------------	----------	---------------------	---------

ASC1801 FINAL 04062015 1611

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 5 of 8



A5C1801



03232015

BCLab4911

Turnaround: Standard

Due Date: 4/6/2015



BC Laboratories



Printed: 3/23

Page 6 of 8  
Page 1 of 1

SUBCONTRACT ORDER

BC Laboratories  
1506721

A5C1801  
BCLab4911

03/23/2015  
10

13.9



SENDING LABORATORY:

BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Misty Orton

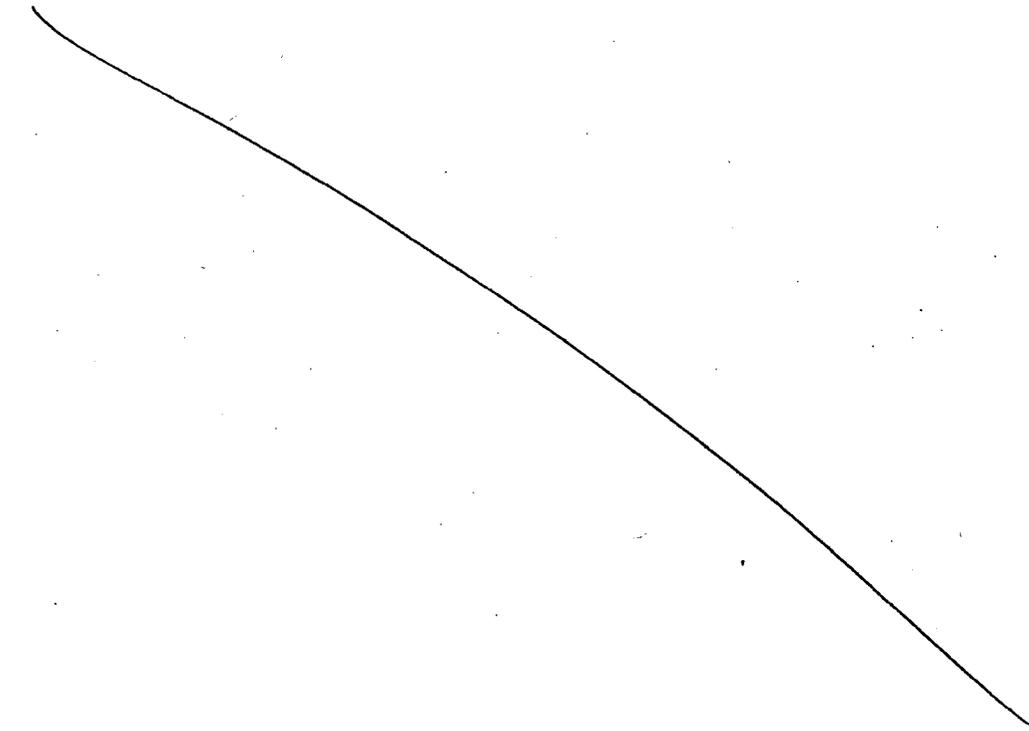
RECEIVING LABORATORY:

BSK Analytical Labs  
1414 Stanislaus Street  
Fresno, CA 93706  
Phone: (800) 877-8310  
FAX: (559) 485-6935

BSKSA

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Sample ID: 1506721-01	Water	Sampled: 03/19/15 12:15	
EPA 900.0 Gross Alpha		04/02/15 17:00	09/16/15 12:15
Containers supplied:			



Released By *[Signature]* Date 3/20/15

Received By \_\_\_\_\_ Date \_\_\_\_\_

Released By \_\_\_\_\_ Date On Trac, Wet, BW

Received By *Michelle Wain* Date 3/23/15 9:35

BSKSA

Page 7 of 8

Page 1 of 1

BSK Associates SR-FL-0002 12

A5C1801  
BCLab4911

03/23/2015  
10



### Sample Integrity

BSK Bottles: Yes  No  Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$	<input checked="" type="radio"/> Yes	No	NA	Were correct containers and preservatives received for the tests requested?	<input checked="" type="radio"/> Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	<input checked="" type="radio"/> NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes	No	<input checked="" type="radio"/> NA
	Did all bottles arrive unbroken and intact?	<input checked="" type="radio"/> Yes	No		Was a sufficient amount of sample received?	<input checked="" type="radio"/> Yes	No	
	Did all bottle labels agree with COC?	<input checked="" type="radio"/> Yes	No		Do samples have a hold time <72 hours?	Yes	No	<input checked="" type="radio"/> NA
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	<input checked="" type="radio"/> NA	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes	No	<input checked="" type="radio"/> NA
Bottles Received <small>means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?					
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—					
	None (P) <small>White Cap</small>	—	—					
	Cr6 (P) <small>Br. Green Label</small> $\text{NH}_4\text{OH}/\text{NH}_4\text{HSO}_4$ DW	pH > 8	Y	N				
	Cr6 (P) <small>Pink Label</small> Hex Chrome Buffer DW	pH 9-9.5	Y	N				
	Cr6 (P) <small>Pink Label</small> Hex Chrome Buffer WW	pH 9.3-9.7	Y	N				
	$\text{HNO}_3$ (P) <small>Red Cap</small>	—	—		IC*			
	$\text{H}_2\text{SO}_4$ (P) or (AG) <small>Yellow Cap/Label</small>	pH < 2	Y	N				
	NaOH (P) <small>Green Cap</small>	Cl, pH > 10	Y	N				
	NaOH + ZnAc (P)	pH > 9	Y	N				
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 608/808/1/8082, 625, 632/832, 8151, 8270	—	—					
	HCl (AG) <small>Li. Blue Label</small> O&G, Diesel	—	—					
	$\text{Na}_2\text{O}_3 + \text{HCl}$ (AG) <small>Li. Pink Label</small> 525	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) <small>Blue Label</small> 547, 545, 548, THM, 524	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) <small>Blue Label</small> 504, 505	—	—					
	$\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) <small>Orange Label</small> 531	pH < 3	Y	N				
	$\text{NH}_4\text{Cl}$ (AG) <small>Purple Label</small> 552	—	—					
	EDA (AG) <small>Brown Label</small> DBPs	—	—					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—					
	Buffer pH 4 (CG)	—	—					
	None (CG)	—	—					
	$\text{H}_3\text{PO}_4$ (CG) <small>Salmon Label</small>	—	—					
	Other:							
	Asbestos 1Liter Plastic w/ Foil	—	—					
	Low Level Hg / Metals Double Baggie	—	—					
	Bottled Water	—	—					
Clear Glass Jar: 250 / 500 / 1 Liter	—	—						
Soil Tube Brass / Steel / Plastic	—	—						
Tedlar Bag / Plastic Bag	—	—						
Split	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials	
	S P				S P			
	S P				S P			
Comments								

Labeled by: SB @ 10/9

Labels checked by: mm @ 10:25

RUSH Paged by: Page 8 of 8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

April 10, 2015

Ms. Misty Orton  
BC Laboratories  
4100 Atlas Ct.  
Bakersfield, CA 93308

RE: Project: 1506721  
Pace Project No.: 30144017

Dear Ms. Orton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2015. 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,

*Carin A. Ferris*

Carin Ferris  
carin.ferris@pacelabs.com  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 1 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

### CERTIFICATIONS

Project: 1506721  
Pace Project No.: 30144017

#### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ACCLASS DOD-ELAP Accreditation #: ADE-1544  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California/TNI Certification #: 04222CA  
Colorado Certification  
Connecticut Certification #: PH-0694  
Delaware Certification  
Florida/TNI Certification #: E87683  
Guam/PADEP Certification  
Hawaii/PADEP Certification  
Idaho Certification  
Illinois/PADEP Certification  
Indiana/PADEP Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: 90133  
Louisiana DHH/TNI Certification #: LA140008  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: PA00091  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification  
Missouri Certification #: 235

Montana Certification #: Cert 0082  
Nebraska Certification #: NE-05-29-14  
Nevada Certification  
New Hampshire/TNI Certification #: 2976  
New Jersey/TNI Certification #: PA 051  
New Mexico Certification  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Oregon/TNI Certification #: PA200002  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
South Dakota Certification  
Tennessee Certification #: TN2867  
Texas/TNI Certification #: T104704188  
Utah/TNI Certification #: PA014572014-4  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin/PADEP Certification  
Wyoming Certification #: 8TMS-Q

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 2 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

## SAMPLE SUMMARY

Project: 1506721  
Pace Project No.: 30144017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30144017001	1506721-01	Drinking Water	03/19/15 12:15	03/26/15 10:00

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 3 of 13



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**SAMPLE ANALYTE COUNT**

Project: 1506721  
Pace Project No.: 30144017

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30144017001	1506721-01	EPA 903.1	JC2	1
		EPA 904.0	JLW	1

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 4 of 13



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

### PROJECT NARRATIVE

Project: 1506721  
Pace Project No.: 30144017

Method: EPA 903.1  
Description: 903.1 Radium 226  
Client: BC Laboratories  
Date: April 10, 2015

**General Information:**

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Additional Comments:**

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 5 of 13



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

### PROJECT NARRATIVE

Project: 1506721  
Pace Project No.: 30144017

Method: EPA 904.0  
Description: 904.0 Radium 228  
Client: BC Laboratories  
Date: April 10, 2015

**General Information:**

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Additional Comments:**

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

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 6 of 13



Pace Analytical Services, Inc.  
 1638 Roseytown Road - Suites 2,3,4  
 Greensburg, PA 15601  
 (724)850-5600

**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: 1506721  
 Pace Project No.: 30144017

Sample: 1506721-01 Lab ID: 30144017001 Collected: 03/19/15 12:15 Received: 03/26/15 10:00 Matrix: Drinking Water  
 PWS: Site ID: Sample Type:

Comments: • Sample Acceptance Policy Waiver on file from the client.  
 • Upon receipt at the laboratory, six mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.345 ± 0.356 (0.533) C:NA T:94%	pCi/L	04/08/15 11:32	13982-63-3	
Radium-228	EPA 904.0	0.312 ± 0.285 (0.590) C:79% T:93%	pCi/L	04/06/15 16:10	15262-20-1	

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 1506721  
Pace Project No.: 30144017

QC Batch: RADC/23886	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
Associated Lab Samples: 30144017001	

METHOD BLANK: 872332	Matrix: Water
Associated Lab Samples: 30144017001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.350 ± 0.326 (0.430) C:NA T:99%	pCi/L	04/08/15 11:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.  
 1638 Roseytown Road - Suites 2,3,4  
 Greensburg, PA 15601  
 (724)850-5600

**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 1506721  
 Pace Project No.: 30144017

QC Batch: RADC/23925 Analysis Method: EPA 904.0  
 QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228  
 Associated Lab Samples: 30144017001

METHOD BLANK: 874027 Matrix: Water  
 Associated Lab Samples: 30144017001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.404 ± 0.305 (0.598) C:81% T:93%	pCi/L	04/06/15 16:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..

Page 9 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

### QUALIFIERS

Project: 1506721  
Pace Project No.: 30144017

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
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.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
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.  
Act - Activity  
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).  
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)  
(MDC) - Minimum Detectable Concentration  
Trac - Tracer Recovery (%)  
Carr - Carrier Recovery (%)  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Date: 04/10/2015 10:56 AM

Page 10 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

SUBCONTRACT ORDER  
BC Laboratories  
1506721

SENDING LABORATORY:

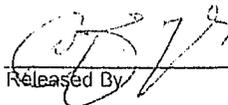
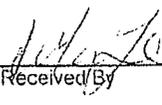
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Misty Orton

RECEIVING LABORATORY:

PACE Analytical  
1638 Roseytown Road, Ste 2,3 &4  
Greensburg, PA 15601  
Phone: (724) 850-5600  
FAX: (724) 850-5601

PACEA

Analysis	Due	Expires	Comments
Sample ID: 1506721-01	Water	Sampled: 03/19/15 12:15	30144017
EPA 903.0 Radium 226	04/02/15 17:00	09/16/15 12:15	ool
EPA 904.0 Radium 228	04/02/15 17:00	09/16/15 12:15	
Containers supplied:			

 3/20/15  
 Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By  Date 3-26-15 10:00

Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_  
 PACEA Page 11 of 13  
Page 1 of 1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Sample Condition Upon Receipt



Client Name: BC

Project # 30144017

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: 1796537160361617733

Custody Seal on Cooler/Box Present:  yes  no Seals Intact:  yes  no Biological Tissue is Frozen: Yes No

Packing Material: ~~Bubble Wrap~~ Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue Marie  Samples on Ice, cooling process has begun

Cooler Temp.: Observed Temp.: NA °C Correction Factor: °C Final Temp: °C

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: April 3-7-15

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12
-Includes date/time/ID/Analysis Matrix:	LST	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. added 6ml HNO3 to both bottles 3-24-15
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1200 PHZ
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed AMI Lot # of added preservative D115-02166
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [Signature]

Date: 3/27/15

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)

30144017

page 2

Project Number:

Client Name:

BA

Pace Analytical

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil Kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500 )	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y	O & G (1L)	TPH (1L)	VOA (40 ml 80 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe / smear filter	Radchem Nalgene (125 / 250 / 500 (1L))	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitator (500 ml / 4L)	Ziploc	Other	Other	

SCURF Back (C016-4 15May2012).xls

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:24  
**Project:** Ground Water Samples  
**Project Number:** Lot 109 Domestic Well (SLTF, Inc.)  
**Project Manager:** Mary Filippi

**Notes And Definitions**

J Estimated Value (CLP Flag)  
MDL Method Detection Limit  
ND Analyte Not Detected  
PQL Practical Quantitation Limit  
A03 The sample concentration is more than 4 times the spike level.  
Q02 Matrix spike precision is not within the control limits.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



From: BC Labs Automated LIMS [AutoLIMS@bclabs.com]  
Sent: 4/10/2015 10:29:03 AM  
To: Mary Filippi [moduscampo@ocsnet.net]  
Subject: BC Labs Report/EDD Files for Lab #1506719  
Attachments: WO\_1506719\_FinalReport.pdf (4229.75 Kb)

Mary Filippi,

This is an Automated Email with file attachments regarding the following Work Order:

Work Order: 1506719

Client Project: 107-2 Injection Well  
COC Number:  
Date Received: 03/19/2015 13:55

Lab Project: Ground Water Samples  
BCL Contact: Misty Orton  
BCL Email: misty.orton@bclabs.com

This email contains the following file attachment(s):  
WO\_1506719\_FinalReport.pdf

This is an Automated Email  
Please send replies to misty.orton@bclabs.com



Date of Report: 04/10/2015

Mary Filippi

Modus Inc

P.O. Box 1809

Porterville, CA 93258

Client Project: 107-2 Injection Well

BCL Project: Ground Water Samples

BCL Work Order: 1506719

Invoice ID: B200368

Enclosed are the results of analyses for samples received by the laboratory on 3/19/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



## Table of Contents

### Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	7

### Sample Results

#### 1506719-01 - Wash Tank Sec. 22, Lot 59

Volatile Organic Analysis (EPA Method 8260B).....	8
Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM).....	9
Total Petroleum Hydrocarbons.....	10
Gas Testing in Water.....	11
Water Analysis (General Chemistry).....	12
Metals Analysis.....	13

### Quality Control Reports

#### Volatile Organic Analysis (EPA Method 8260B)

Method Blank Analysis.....	14
Laboratory Control Sample.....	15
Precision and Accuracy.....	16

#### Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Method Blank Analysis.....	17
Laboratory Control Sample.....	18
Precision and Accuracy.....	19

#### Total Petroleum Hydrocarbons

Method Blank Analysis.....	21
Laboratory Control Sample.....	22
Precision and Accuracy.....	23

#### Gas Testing in Water

Method Blank Analysis.....	24
Laboratory Control Sample.....	25

#### Water Analysis (General Chemistry)

Method Blank Analysis.....	26
Laboratory Control Sample.....	27
Precision and Accuracy.....	28

#### Metals Analysis

Method Blank Analysis.....	29
Laboratory Control Sample.....	30
Precision and Accuracy.....	31

### Subcontract Reports

WO_1506719_SUB_BSKSA.pdf.....	33
WO_1506719_SUB_PACEA.pdf.....	41

### Notes

Notes and Definitions.....	54
----------------------------	----

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody Form



Laboratories, Inc.

Report To: **MODUS, INC.**  
 Client: **MODUS, INC.**  
 Attn: **MARY FILIPPI**  
 Street Address: **P.O. Box 1809**  
 City, State, Zip: **PORTERVILLE, CA 93258**  
 Phone: **559 7818181** Fax:  
 Email Address: **Moduscamp@ccsnet.net**  
 Work Order #: **15-06719**

Sample #	Description	Date Sampled	Time Sampled
1	WASH TANK Sec. 22, LOT 59	3/19/15	1140

Project #: **107-2**  
 Project Name: **INJECTED WELL**  
 Street Address: **P.O. Box 1809**  
 City, State, Zip: **PORTERVILLE, CA 93258**  
 Phone: **559 7818181** Fax:  
 Email Address: **Moduscamp@ccsnet.net**  
 Work Order #: **15-06719**

Analysis Requested  
 Run tests per attachment A (2 pages) attached

Comments:  
 WASTEWATER RECEIVED FROM NEW WASH TANK. SECTION 22, LOT 59

Are there any tests with holding times less than or equal to 48 hours?  
 Yes  No

\* Standard Turnaround = 10 work days

Sample Matrix  
 Soil   
 Sludge   
 Drinking Water   
 Ground Water   
 Waste Water  X

Turnaround # of work days: **5**

Notes

Sample #	Description	Date Sampled	Time Sampled	EDF Required? Geotracker:	EDF Required? Geotracker:	Global ID (Needed for EDF)	System # (Needed for EDF)
1	WASH TANK Sec. 22, LOT 59	3/19/15	1140	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Send Copy to State of CA? (EDT) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Relinquished By: <b>[Signature]</b> Date: <b>3/19/15</b> Time: <b>1:55</b>	1. Received By: <b>[Signature]</b> Date: <b>3/19/15</b> Time: <b>1:55</b>

Billing:  Same as above

Client: \_\_\_\_\_ Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Attn: \_\_\_\_\_ PO#: \_\_\_\_\_

EDF Required? Geotracker:  Yes  No

Send Copy to State of CA? (EDT)  Yes  No

Global ID (Needed for EDF)

1. Relinquished By: **[Signature]** Date: **3/19/15** Time: **1:55**

2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

System # (Needed for EDF)

1. Received By: **[Signature]** Date: **3/19/15** Time: **1:55**

2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Mary E. Filippi  
Modus, Inc.

- 6 -

3 March 2015

15-06719

**ATTACHMENT A**  
**Water Quality Sampling, Analysis, and Reporting**

Water Quality Sampling

All groundwater sampling is to be performed by a qualified person. A qualified person is any person with the knowledge and training in proper sampling methods, chain of custody, and quality assurance/quality control protocols. Any person conducting groundwater sampling, other than personnel from a certified laboratory, shall consult with the certified laboratory to ensure that the sampler understands and follows the proper sampling collection procedures and protocols. All procedures to sample groundwater supply wells shall be consistent with US EPA Science and Ecosystem Support Division Operating Procedure for Groundwater Sampling (March 2013) (available at [www.epa.gov/region04/sesd/fbqstp/Groundwater-Sampling.pdf](http://www.epa.gov/region04/sesd/fbqstp/Groundwater-Sampling.pdf)).

Water Quality Analysis

Groundwater samples collected from wells and injection zones shall be analyzed by a laboratory certified by the Environmental Laboratory Accreditation Program, using current applicable EPA-approved analytical methods. The methods of analysis and the detection limits used shall be appropriate for the expected concentrations. The analytical method having the lowest method detection limit (MDL) shall be selected from among those methods which would provide valid results in light of any matrix effects or interferences. Analyze samples for the following:

- A. Total dissolved solids
- B. Metals listed in California Code of Regulations, title 22, section 66261.24, subdivision (a)(2)(A)
- C. Benzene, toluene, ethylbenzene, and xylenes
- D. Total petroleum hydrocarbons for crude oil
- E. Polynuclear aromatic hydrocarbons (including acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, dibenzo[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene, and pyrene)
- F. Radionuclides listed under California Code of Regulations, title 22, Table 64442, which includes Gross Alpha particle activity (excluding radon and uranium), Uranium, Radium-226, and Radium-228.
- G. Methane
- H. Major and minor cations (including sodium, potassium, magnesium, and calcium)
- I. Major and minor anions (including nitrate, chloride, sulfate, alkalinity, and bromide)
- J. Trace elements (including lithium, strontium, boron, iron, and manganese)

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Mary E. Filippi  
Modus, Inc.

- 7 -

3 March 2015

Water Quality Reporting

15-06719

Water quality information shall be submitted in a technical report that includes, at a minimum:

- A. Site plan with locations of well(s) sampled.
- B. Description of field sampling procedures.
- C. Table(s) of analytical results organized by well number (including API number).
- D. Copies of analytical laboratory reports, including quality assurance/quality control procedures and analytical test methods.
- E. Waste management and disposal procedures.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



BC LABORATORIES INC.	COOLER RECEIPT FORM	Rev. No. 18	09/04/14	Page	Of
----------------------	---------------------	-------------	----------	------	----

Submission #: 15-06719

**SHIPPING INFORMATION**

Federal Express  UPS  Hand Delivery   
 BC Lab Field Service  Other  (Specify) \_\_\_\_\_

**SHIPPING CONTAINER**

Ice Chest  None  Box   
 Other  (Specify) \_\_\_\_\_

**FREE LIQUID**

YES  NO

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208  
 Temperature: (A) 2.4 °C / (C) 2.2 °C

Date/Time: 3/19/15 Analyst Init: MVB/355

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4*	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	J-H									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS	0									
PT INORGANIC CHEMICAL METALS	N									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK IMPRES 098	DERGHI									
40ml VOA VIAL	09W ABC									
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8270	090									
QT EPA 8015M	060									
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: \_\_\_\_\_

Sample Numbering Completed By: VM Date/Time: 3/19/15 1443 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)

A = Actual / C = Corrected



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information																								
1506719-01	<table> <tr> <td><b>COC Number:</b></td> <td>—</td> <td><b>Receive Date:</b></td> <td>03/19/2015 13:55</td> </tr> <tr> <td><b>Project Number:</b></td> <td>—</td> <td><b>Sampling Date:</b></td> <td>03/19/2015 11:40</td> </tr> <tr> <td><b>Sampling Location:</b></td> <td>—</td> <td><b>Sample Depth:</b></td> <td>—</td> </tr> <tr> <td><b>Sampling Point:</b></td> <td>Wash Tank Sec. 22, Lot 59</td> <td><b>Lab Matrix:</b></td> <td>Water</td> </tr> <tr> <td><b>Sampled By:</b></td> <td>Mike Graham</td> <td><b>Sample Type:</b></td> <td>Wastewater</td> </tr> <tr> <td></td> <td></td> <td><b>Metal Analysis:</b></td> <td>2-Lab Filtered and Acidified past 15 minute holding time</td> </tr> </table>	<b>COC Number:</b>	—	<b>Receive Date:</b>	03/19/2015 13:55	<b>Project Number:</b>	—	<b>Sampling Date:</b>	03/19/2015 11:40	<b>Sampling Location:</b>	—	<b>Sample Depth:</b>	—	<b>Sampling Point:</b>	Wash Tank Sec. 22, Lot 59	<b>Lab Matrix:</b>	Water	<b>Sampled By:</b>	Mike Graham	<b>Sample Type:</b>	Wastewater			<b>Metal Analysis:</b>	2-Lab Filtered and Acidified past 15 minute holding time
<b>COC Number:</b>	—	<b>Receive Date:</b>	03/19/2015 13:55																						
<b>Project Number:</b>	—	<b>Sampling Date:</b>	03/19/2015 11:40																						
<b>Sampling Location:</b>	—	<b>Sample Depth:</b>	—																						
<b>Sampling Point:</b>	Wash Tank Sec. 22, Lot 59	<b>Lab Matrix:</b>	Water																						
<b>Sampled By:</b>	Mike Graham	<b>Sample Type:</b>	Wastewater																						
		<b>Metal Analysis:</b>	2-Lab Filtered and Acidified past 15 minute holding time																						

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1506719-01	<b>Client Sample Name:</b> Wash Tank Sec. 22, Lot 59, 3/19/2015 11:40:00AM, Mike Graham
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260B	ND		1
Ethylbenzene	0.84	ug/L	0.50	0.098	EPA-8260B	ND		1
Toluene	0.35	ug/L	0.50	0.093	EPA-8260B	ND	J	1
Total Xylenes	6.4	ug/L	1.0	0.36	EPA-8260B	ND		1
p- & m-Xylenes	2.7	ug/L	0.50	0.28	EPA-8260B	ND		1
o-Xylene	3.7	ug/L	0.50	0.082	EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	109	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	03/23/15	03/23/15 20:33	JMS	MS-V10	1	BYC1970

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1506719-01		Client Sample Name: Wash Tank Sec. 22, Lot 59, 3/19/2015 11:40:00AM, Mike Graham						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	1.0	0.55	EPA-8270C-SIM	ND	A01	1
Acenaphthylene	ND	ug/L	1.0	0.47	EPA-8270C-SIM	ND	A01	1
Anthracene	ND	ug/L	1.0	0.17	EPA-8270C-SIM	ND	A01	1
Benzo[a]anthracene	ND	ug/L	1.0	0.26	EPA-8270C-SIM	ND	A01	1
Benzo[b]fluoranthene	ND	ug/L	1.0	0.40	EPA-8270C-SIM	ND	A01	1
Benzo[k]fluoranthene	ND	ug/L	1.0	0.51	EPA-8270C-SIM	ND	A01	1
Benzo[a]pyrene	ND	ug/L	1.0	0.26	EPA-8270C-SIM	ND	A01	1
Benzo[g,h,i]perylene	ND	ug/L	1.0	0.43	EPA-8270C-SIM	ND	A01	1
Chrysene	ND	ug/L	1.0	0.22	EPA-8270C-SIM	ND	A01	1
Dibenzo[a,h]anthracene	ND	ug/L	1.0	0.44	EPA-8270C-SIM	ND	A01	1
Fluoranthene	ND	ug/L	1.0	0.12	EPA-8270C-SIM	ND	A01	1
Fluorene	ND	ug/L	1.0	0.30	EPA-8270C-SIM	ND	A01	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	1.0	0.44	EPA-8270C-SIM	ND	A01	1
<b>Naphthalene</b>	<b>0.80</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.77</b>	<b>EPA-8270C-SIM</b>	<b>ND</b>	<b>J,A01</b>	<b>1</b>
Phenanthrene	ND	ug/L	1.0	0.22	EPA-8270C-SIM	ND	A01	1
Pyrene	ND	ug/L	1.0	0.22	EPA-8270C-SIM	ND	A01	1
Nitrobenzene-d5 (Surrogate)	42.9	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM		A01	1
2-Fluorobiphenyl (Surrogate)	72.9	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM		A01	1
p-Terphenyl-d14 (Surrogate)	155	%	40 - 130 (LCL - UCL)		EPA-8270C-SIM		A01,S09	1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8270C-SIM	03/25/15	03/31/15	13:51	MK1	MS-B4	10	BYD0018

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Total Petroleum Hydrocarbons

<b>BCL Sample ID:</b> 1506719-01	<b>Client Sample Name:</b> Wash Tank Sec. 22, Lot 59, 3/19/2015 11:40:00AM, Mike Graham							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Crude Oil	120000	ug/L	10000	2800	EPA-8015B/FFP	ND	A01	1
Tetracosane (Surrogate)	0	%	37 - 134 (LCL - UCL)		EPA-8015B/FFP		A01,A17	1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-8015B/FFP	03/25/15	03/27/15	10:00	MWB	GC-13	20	BYC2331

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Gas Testing in Water

<b>BCL Sample ID:</b> 1506719-01	<b>Client Sample Name:</b> Wash Tank Sec. 22, Lot 59, 3/19/2015 11:40:00AM, Mike Graham							
<b>Constituent</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Method</b>	<b>MB Bias</b>	<b>Lab Quals</b>	<b>Run #</b>
Methane	2.0	mg/L	0.010	0.0028	RSK-175M	ND	A01	1

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	RSK-175M	03/31/15	03/31/15 14:04	JH2	GC-V1	10	BYC2719

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Water Analysis (General Chemistry)

BCL Sample ID: 1506719-01		Client Sample Name: Wash Tank Sec. 22, Lot 59, 3/19/2015 11:40:00AM, Mike Graham						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Calcium	7.3	mg/L	0.10	0.016	EPA-200.7	0.034		1
Dissolved Magnesium	0.78	mg/L	0.050	0.019	EPA-200.7	ND		1
Dissolved Sodium	120	mg/L	0.50	0.051	EPA-200.7	ND		1
Dissolved Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	EPA-310.1	ND		2
Bromide	0.20	mg/L	0.10	0.035	EPA-300.0	ND		3
Chloride	51	mg/L	0.50	0.061	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.018	EPA-300.0	ND		3
Sulfate	3.8	mg/L	1.0	0.10	EPA-300.0	ND		3
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	03/26/15	03/27/15 18:26	JRG	PE-OP2	1	BYC2532
2	EPA-310.1	03/25/15	03/25/15 08:51	RML	MET-1	1	BYC2143
3	EPA-300.0	03/19/15	03/19/15 22:51	BMW	IC2	1	BYC1881
4	EPA-160.1	03/23/15	03/23/15 13:30	CAD	MANUAL	2	BYC2045

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Metals Analysis

<b>BCL Sample ID:</b> 1506719-01	<b>Client Sample Name:</b> Wash Tank Sec. 22, Lot 59, 3/19/2015 11:40:00AM, Mike Graham
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Dissolved Antimony	ND	ug/L	2.0	0.065	EPA-200.8	ND		1
Dissolved Arsenic	0.47	ug/L	2.0	0.38	EPA-200.8	ND	J	1
Dissolved Barium	31	ug/L	1.0	0.066	EPA-200.8	ND		2
Dissolved Beryllium	ND	ug/L	1.0	0.050	EPA-200.8	ND		1
Dissolved Boron	440	ug/L	100	10	EPA-200.7	ND		3
Dissolved Cadmium	ND	ug/L	1.0	0.034	EPA-200.8	ND		1
Dissolved Chromium	0.56	ug/L	3.0	0.15	EPA-200.8	0.16	J	1
Dissolved Cobalt	0.060	ug/L	1.0	0.011	EPA-200.8	ND	J	1
Dissolved Copper	ND	ug/L	2.0	0.32	EPA-200.8	ND		1
Dissolved Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Dissolved Lead	ND	ug/L	1.0	0.021	EPA-200.8	ND		1
Dissolved Manganese	35	ug/L	1.0	0.040	EPA-200.8	0.049		1
Dissolved Mercury	ND	ug/L	0.20	0.033	EPA-245.1	ND		4
Dissolved Molybdenum	7.8	ug/L	1.0	0.033	EPA-200.8	ND		1
Dissolved Nickel	0.53	ug/L	2.0	0.15	EPA-200.8	ND	J	1
Dissolved Selenium	ND	ug/L	2.0	0.25	EPA-200.8	ND		1
Dissolved Silver	ND	ug/L	1.0	0.015	EPA-200.8	ND		1
Dissolved Thallium	ND	ug/L	1.0	0.025	EPA-200.8	ND		1
Dissolved Vanadium	ND	ug/L	3.0	0.39	EPA-200.8	0.71		1
Dissolved Zinc	ND	ug/L	5.0	2.2	EPA-200.8	ND		1
Total Recoverable Lithium	ND	ug/L	20	6.6	EPA-200.7	ND		5
Total Recoverable Strontium	41	ug/L	10	1.0	EPA-200.7	ND		5
Total Recoverable Uranium	ND	pCi/L	0.67	0.067	EPA-200.8	ND		6

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	03/26/15	03/26/15 21:48	SRM	PE-EL2	1	BYC2431
2	EPA-200.8	03/26/15	03/27/15 11:58	EAR	PE-EL2	1	BYC2431
3	EPA-200.7	03/26/15	03/27/15 18:26	JRG	PE-OP2	1	BYC2532
4	EPA-245.1	03/25/15	03/25/15 15:55	MEV	CETAC1	1	BYC2290
5	EPA-200.7	03/24/15	03/24/15 18:35	JRG	PE-OP2	1	BYC2158
6	EPA-200.8	03/23/15	03/23/15 18:33	SRM	PE-EL2	1	BYC2032

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC1970</b>						
Benzene	BYC1970-BLK1	ND	ug/L	0.50	0.083	
Ethylbenzene	BYC1970-BLK1	ND	ug/L	0.50	0.098	
Toluene	BYC1970-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BYC1970-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BYC1970-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BYC1970-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BYC1970-BLK1	91.9	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BYC1970-BLK1	99.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BYC1970-BLK1	93.7	%	80 - 120 (LCL - UCL)		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
<b>QC Batch ID: BYC1970</b>									
Benzene	BYC1970-BS1	LCS	25.650	25.000	ug/L	103		70 - 130	
Toluene	BYC1970-BS1	LCS	25.820	25.000	ug/L	103		70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BYC1970-BS1	LCS	9.1200	10.000	ug/L	91.2		75 - 125	
Toluene-d8 (Surrogate)	BYC1970-BS1	LCS	9.7200	10.000	ug/L	97.2		80 - 120	
4-Bromofluorobenzene (Surrogate)	BYC1970-BS1	LCS	10.500	10.000	ug/L	105		80 - 120	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Volatile Organic Analysis (EPA Method 8260B)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: BYC1970</b>		Used client sample: N									
Benzene	MS	1506771-09	ND	30.620	25.000	ug/L		122			70 - 130
	MSD	1506771-09	ND	29.960	25.000	ug/L	2.2	120	20		70 - 130
Toluene	MS	1506771-09	ND	31.560	25.000	ug/L		126			70 - 130
	MSD	1506771-09	ND	30.030	25.000	ug/L	5.0	120	20		70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1506771-09	ND	9.4900	10.000	ug/L		94.9			75 - 125
	MSD	1506771-09	ND	9.7000	10.000	ug/L	2.2	97.0			75 - 125
Toluene-d8 (Surrogate)	MS	1506771-09	ND	9.9900	10.000	ug/L		99.9			80 - 120
	MSD	1506771-09	ND	9.7100	10.000	ug/L	2.8	97.1			80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1506771-09	ND	10.280	10.000	ug/L		103			80 - 120
	MSD	1506771-09	ND	10.020	10.000	ug/L	2.6	100			80 - 120

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** - 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

## Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYD0018</b>						
Acenaphthene	BYD0018-BLK1	ND	ug/L	0.10	0.055	
Acenaphthylene	BYD0018-BLK1	ND	ug/L	0.10	0.047	
Anthracene	BYD0018-BLK1	ND	ug/L	0.10	0.017	
Benzo[a]anthracene	BYD0018-BLK1	ND	ug/L	0.10	0.026	
Benzo[b]fluoranthene	BYD0018-BLK1	ND	ug/L	0.10	0.040	
Benzo[k]fluoranthene	BYD0018-BLK1	ND	ug/L	0.10	0.051	
Benzo[a]pyrene	BYD0018-BLK1	ND	ug/L	0.10	0.026	
Benzo[g,h,i]perylene	BYD0018-BLK1	ND	ug/L	0.10	0.043	
Chrysene	BYD0018-BLK1	ND	ug/L	0.10	0.022	
Dibenzo[a,h]anthracene	BYD0018-BLK1	ND	ug/L	0.10	0.044	
Fluoranthene	BYD0018-BLK1	ND	ug/L	0.10	0.012	
Fluorene	BYD0018-BLK1	ND	ug/L	0.10	0.030	
Indeno[1,2,3-cd]pyrene	BYD0018-BLK1	ND	ug/L	0.10	0.044	
Naphthalene	BYD0018-BLK1	ND	ug/L	0.10	0.077	
Phenanthrene	BYD0018-BLK1	ND	ug/L	0.10	0.022	
Pyrene	BYD0018-BLK1	ND	ug/L	0.10	0.022	
<b>Nitrobenzene-d5 (Surrogate)</b>	<b>BYD0018-BLK1</b>	<b>56.4</b>	<b>%</b>	<b>40 - 130 (LCL - UCL)</b>		
<b>2-Fluorobiphenyl (Surrogate)</b>	<b>BYD0018-BLK1</b>	<b>55.5</b>	<b>%</b>	<b>40 - 130 (LCL - UCL)</b>		
<b>p-Terphenyl-d14 (Surrogate)</b>	<b>BYD0018-BLK1</b>	<b>63.6</b>	<b>%</b>	<b>40 - 130 (LCL - UCL)</b>		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
<b>QC Batch ID: BYD0018</b>									
Acenaphthene	BYD0018-BS1	LCS	0.69439	1.0000	ug/L	69.4		60 - 110	
Acenaphthylene	BYD0018-BS1	LCS	0.69850	1.0000	ug/L	69.9		56 - 120	
Anthracene	BYD0018-BS1	LCS	0.76715	1.0000	ug/L	76.7		57 - 128	
Benzo[a]anthracene	BYD0018-BS1	LCS	0.74610	1.0000	ug/L	74.6		64 - 130	
Benzo[b]fluoranthene	BYD0018-BS1	LCS	0.84450	1.0000	ug/L	84.4		50 - 130	
Benzo[k]fluoranthene	BYD0018-BS1	LCS	0.80362	1.0000	ug/L	80.4		60 - 120	
Benzo[a]pyrene	BYD0018-BS1	LCS	0.80465	1.0000	ug/L	80.5		60 - 125	
Benzo[g,h,i]perylene	BYD0018-BS1	LCS	0.44971	1.0000	ug/L	45.0		44 - 120	
Chrysene	BYD0018-BS1	LCS	0.72854	1.0000	ug/L	72.9		60 - 110	
Dibenzo[a,h]anthracene	BYD0018-BS1	LCS	0.52846	1.0000	ug/L	52.8		40 - 120	
Fluoranthene	BYD0018-BS1	LCS	0.75726	1.0000	ug/L	75.7		60 - 120	
Fluorene	BYD0018-BS1	LCS	0.77739	1.0000	ug/L	77.7		60 - 120	
Indeno[1,2,3-cd]pyrene	BYD0018-BS1	LCS	0.50054	1.0000	ug/L	50.1		40 - 130	
Naphthalene	BYD0018-BS1	LCS	0.67254	1.0000	ug/L	67.3		60 - 110	
Phenanthrene	BYD0018-BS1	LCS	0.71285	1.0000	ug/L	71.3		60 - 120	
Pyrene	BYD0018-BS1	LCS	0.83606	1.0000	ug/L	83.6		50 - 125	
Nitrobenzene-d5 (Surrogate)	BYD0018-BS1	LCS	2.6547	4.0000	ug/L	66.4		40 - 130	
2-Fluorobiphenyl (Surrogate)	BYD0018-BS1	LCS	2.4887	4.0000	ug/L	62.2		40 - 130	
p-Terphenyl-d14 (Surrogate)	BYD0018-BS1	LCS	3.0407	4.0000	ug/L	76.0		40 - 130	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc
P.O. Box 1809
Porterville, CA 93258

Reported: 04/10/2015 9:22
Project: Ground Water Samples
Project Number: 107-2 Injection Well
Project Manager: Mary Filippi

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: BYD0018 and Used client sample: N.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
									RPD	Percent Recovery
<b>QC Batch ID: BYD0018</b>		Used client sample: N								
p-Terphenyl-d14 (Surrogate)	MS	1506890-18	ND	3.2432	4.0000	ug/L		81.1		40 - 130
	MSD	1506890-18	ND	3.7104	4.0000	ug/L	13.4	92.8		40 - 130

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Total Petroleum Hydrocarbons

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC2331</b>						
TPH - Diesel (FFP)	BYC2331-BLK1	ND	ug/L	200	34	
TPH - Crude Oil	BYC2331-BLK1	ND	ug/L	500	140	
Tetracosane (Surrogate)	BYC2331-BLK1	71.0	%	37 - 134 (LCL - UCL)		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Total Petroleum Hydrocarbons

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2331</b>										
TPH - Diesel (FFP)	BYC2331-BS1	LCS	1753.4	2500.0	ug/L	70.1		52 - 128		
Tetracosane (Surrogate)	BYC2331-BS1	LCS	62.130	100.00	ug/L	62.1		37 - 134		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Total Petroleum Hydrocarbons

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
<b>QC Batch ID: BYC2331</b>		Used client sample: N									
TPH - Diesel (FFP)	MS	1506890-09	ND	1686.6	2500.0	ug/L		67.5			50 - 127
	MSD	1506890-09	ND	1568.6	2500.0	ug/L	7.2	62.7	24		50 - 127
Tetracosane (Surrogate)	MS	1506890-09	ND	66.110	100.00	ug/L		66.1			37 - 134
	MSD	1506890-09	ND	64.230	100.00	ug/L	2.9	64.2			37 - 134

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Gas Testing in Water

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC2719</b>						
Methane	BYC2719-BLK1	ND	mg/L	0.0010	0.00028	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Gas Testing in Water

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC2719</b>										
Methane	BYC2719-BS1	LCS	0.011856	0.010843	mg/L	109		80 - 120		
	BYC2719-BSD1	LCSD	0.011495	0.010843	mg/L	106	3.1	80 - 120	20	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC1881</b>						
Bromide	BYC1881-BLK1	ND	mg/L	0.10	0.035	
Chloride	BYC1881-BLK1	ND	mg/L	0.50	0.061	
Nitrate as N	BYC1881-BLK1	ND	mg/L	0.10	0.018	
Sulfate	BYC1881-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: BYC2045</b>						
Total Dissolved Solids @ 180 C	BYC2045-BLK1	ND	mg/L	6.7	6.7	
<b>QC Batch ID: BYC2143</b>						
Total Alkalinity as CaCO3	BYC2143-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: BYC2532</b>						
Dissolved Calcium	BYC2532-BLK1	0.034078	mg/L	0.10	0.016	J
Dissolved Magnesium	BYC2532-BLK1	ND	mg/L	0.050	0.019	
Dissolved Sodium	BYC2532-BLK1	ND	mg/L	0.50	0.051	
Dissolved Potassium	BYC2532-BLK1	ND	mg/L	1.0	0.10	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BYC1881</b>										
Bromide	BYC1881-BS1	LCS	2.0490	2.0000	mg/L	102		90 - 110		
Chloride	BYC1881-BS1	LCS	49.554	50.000	mg/L	99.1		90 - 110		
Nitrate as N	BYC1881-BS1	LCS	4.9770	5.0000	mg/L	99.5		90 - 110		
Sulfate	BYC1881-BS1	LCS	98.981	100.00	mg/L	99.0		90 - 110		
<b>QC Batch ID: BYC2045</b>										
Total Dissolved Solids @ 180 C	BYC2045-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
<b>QC Batch ID: BYC2143</b>										
Total Alkalinity as CaCO3	BYC2143-BS3	LCS	106.95	100.00	mg/L	107		90 - 110		
<b>QC Batch ID: BYC2532</b>										
Dissolved Calcium	BYC2532-BS1	LCS	9.8963	10.000	mg/L	99.0		85 - 115		
Dissolved Magnesium	BYC2532-BS1	LCS	10.507	10.000	mg/L	105		85 - 115		
Dissolved Sodium	BYC2532-BS1	LCS	9.9204	10.000	mg/L	99.2		85 - 115		
Dissolved Potassium	BYC2532-BS1	LCS	9.4952	10.000	mg/L	95.0		85 - 115		

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
<b>QC Batch ID: BYC1881</b>		Used client sample: N									
Bromide	DUP	1506712-01	ND	ND		mg/L			10		
	MS	1506712-01	ND	2.2020	2.0202	mg/L		109		80 - 120	
	MSD	1506712-01	ND	2.2000	2.0202	mg/L	0.1	109	10	80 - 120	
Chloride	DUP	1506712-01	54.210	54.124		mg/L	0.2		10		
	MS	1506712-01	54.210	107.06	50.505	mg/L		105		80 - 120	
	MSD	1506712-01	54.210	106.99	50.505	mg/L	0.1	105	10	80 - 120	
Nitrate as N	DUP	1506712-01	4.6750	4.7130		mg/L	0.8		10		
	MS	1506712-01	4.6750	9.8263	5.0505	mg/L		102		80 - 120	
	MSD	1506712-01	4.6750	9.8253	5.0505	mg/L	0.0	102	10	80 - 120	
Sulfate	DUP	1506712-01	63.255	62.898		mg/L	0.6		10		
	MS	1506712-01	63.255	170.11	101.01	mg/L		106		80 - 120	
	MSD	1506712-01	63.255	169.91	101.01	mg/L	0.1	106	10	80 - 120	
<b>QC Batch ID: BYC2045</b>		Used client sample: N									
Total Dissolved Solids @ 180 C	DUP	1506752-02	2180.0	2190.0		mg/L	0.5		10		
<b>QC Batch ID: BYC2143</b>		Used client sample: N									
Total Alkalinity as CaCO3	DUP	1507048-01	181.04	168.56		mg/L	7.1		10		
<b>QC Batch ID: BYC2532</b>		Used client sample: N									
Dissolved Calcium	DUP	1506947-01	87.111	86.053		mg/L	1.2		20		
	MS	1506947-01	87.111	91.443	10.204	mg/L		42.5		85 - 115	A03
	MSD	1506947-01	87.111	90.248	10.204	mg/L	1.3	30.7	20	85 - 115	A03
Dissolved Magnesium	DUP	1506947-01	17.169	16.936		mg/L	1.4		20		
	MS	1506947-01	17.169	27.109	10.204	mg/L		97.4		85 - 115	
	MSD	1506947-01	17.169	26.863	10.204	mg/L	0.9	95.0	20	85 - 115	
Dissolved Sodium	DUP	1506947-01	170.78	169.32		mg/L	0.9		20		
	MS	1506947-01	170.78	169.55	10.204	mg/L		-12.1		85 - 115	A03
	MSD	1506947-01	170.78	167.46	10.204	mg/L	1.2	-32.6	20	85 - 115	A03
Dissolved Potassium	DUP	1506947-01	5.3435	5.2968		mg/L	0.9		20		
	MS	1506947-01	5.3435	15.788	10.204	mg/L		102		85 - 115	
	MSD	1506947-01	5.3435	15.728	10.204	mg/L	0.4	102	20	85 - 115	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BYC2032</b>						
Total Recoverable Uranium	BYC2032-BLK1	ND	pCi/L	0.67	0.067	
<b>QC Batch ID: BYC2158</b>						
Total Recoverable Lithium	BYC2158-BLK1	ND	ug/L	20	6.6	
Total Recoverable Strontium	BYC2158-BLK1	ND	ug/L	10	1.0	
<b>QC Batch ID: BYC2290</b>						
Dissolved Mercury	BYC2290-BLK1	ND	ug/L	0.20	0.033	
<b>QC Batch ID: BYC2431</b>						
Dissolved Antimony	BYC2431-BLK1	ND	ug/L	2.0	0.065	
Dissolved Arsenic	BYC2431-BLK1	ND	ug/L	2.0	0.38	
Dissolved Barium	BYC2431-BLK2	ND	ug/L	1.0	0.066	
Dissolved Beryllium	BYC2431-BLK1	ND	ug/L	1.0	0.050	
Dissolved Cadmium	BYC2431-BLK1	ND	ug/L	1.0	0.034	
Dissolved Chromium	BYC2431-BLK1	0.15800	ug/L	3.0	0.15	J
Dissolved Cobalt	BYC2431-BLK1	ND	ug/L	1.0	0.011	
Dissolved Copper	BYC2431-BLK1	ND	ug/L	2.0	0.32	
Dissolved Lead	BYC2431-BLK1	ND	ug/L	1.0	0.021	
Dissolved Manganese	BYC2431-BLK1	0.049000	ug/L	1.0	0.040	J
Dissolved Molybdenum	BYC2431-BLK1	ND	ug/L	1.0	0.033	
Dissolved Nickel	BYC2431-BLK1	ND	ug/L	2.0	0.15	
Dissolved Selenium	BYC2431-BLK1	ND	ug/L	2.0	0.25	
Dissolved Silver	BYC2431-BLK1	ND	ug/L	1.0	0.015	
Dissolved Thallium	BYC2431-BLK1	ND	ug/L	1.0	0.025	
Dissolved Vanadium	BYC2431-BLK1	0.71400	ug/L	3.0	0.39	J
Dissolved Zinc	BYC2431-BLK1	ND	ug/L	5.0	2.2	
<b>QC Batch ID: BYC2532</b>						
Dissolved Boron	BYC2532-BLK1	ND	ug/L	100	10	
Dissolved Iron	BYC2532-BLK1	ND	ug/L	50	30	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab RPD	Quals
							Percent Recovery	RPD		
<b>QC Batch ID: BYC2032</b>										
Total Recoverable Uranium	BYC2032-BS1	LCS	27.310	26.800	pCi/L	102	85 - 115			
<b>QC Batch ID: BYC2158</b>										
Total Recoverable Lithium	BYC2158-BS1	LCS	213.27	200.00	ug/L	107	85 - 115			
Total Recoverable Strontium	BYC2158-BS1	LCS	509.13	500.00	ug/L	102	85 - 115			
<b>QC Batch ID: BYC2290</b>										
Dissolved Mercury	BYC2290-BS1	LCS	0.97500	1.0000	ug/L	97.5	85 - 115			
<b>QC Batch ID: BYC2431</b>										
Dissolved Antimony	BYC2431-BS1	LCS	43.056	40.000	ug/L	108	85 - 115			
Dissolved Arsenic	BYC2431-BS1	LCS	104.87	100.00	ug/L	105	85 - 115			
Dissolved Barium	BYC2431-BS2	LCS	42.739	40.000	ug/L	107	85 - 115			
Dissolved Beryllium	BYC2431-BS1	LCS	44.695	40.000	ug/L	112	85 - 115			
Dissolved Cadmium	BYC2431-BS1	LCS	43.587	40.000	ug/L	109	85 - 115			
Dissolved Chromium	BYC2431-BS1	LCS	43.378	40.000	ug/L	108	85 - 115			
Dissolved Cobalt	BYC2431-BS1	LCS	42.622	40.000	ug/L	107	85 - 115			
Dissolved Copper	BYC2431-BS1	LCS	108.92	100.00	ug/L	109	85 - 115			
Dissolved Lead	BYC2431-BS1	LCS	109.48	100.00	ug/L	109	85 - 115			
Dissolved Manganese	BYC2431-BS1	LCS	110.43	100.00	ug/L	110	85 - 115			
Dissolved Molybdenum	BYC2431-BS1	LCS	42.286	40.000	ug/L	106	85 - 115			
Dissolved Nickel	BYC2431-BS1	LCS	108.63	100.00	ug/L	109	85 - 115			
Dissolved Selenium	BYC2431-BS1	LCS	102.31	100.00	ug/L	102	85 - 115			
Dissolved Silver	BYC2431-BS1	LCS	43.671	40.000	ug/L	109	85 - 115			
Dissolved Thallium	BYC2431-BS1	LCS	41.854	40.000	ug/L	105	85 - 115			
Dissolved Vanadium	BYC2431-BS1	LCS	43.001	40.000	ug/L	108	85 - 115			
Dissolved Zinc	BYC2431-BS1	LCS	106.82	100.00	ug/L	107	85 - 115			
<b>QC Batch ID: BYC2532</b>										
Dissolved Boron	BYC2532-BS1	LCS	1025.7	1000.0	ug/L	103	85 - 115			
Dissolved Iron	BYC2532-BS1	LCS	1096.9	1000.0	ug/L	110	85 - 115			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery	Control Limits		Lab Quals
								RPD	Percent Recovery	
<b>QC Batch ID: BYC2032</b>		Used client sample: N								
Total Recoverable Uranium	DUP	1506673-01	4.3999	4.3456		pCi/L	1.2		20	
	MS	1506673-01	4.3999	31.676	26.800	pCi/L	102		70 - 130	
	MSD	1506673-01	4.3999	31.724	26.800	pCi/L	0.2	102	20	70 - 130
<b>QC Batch ID: BYC2158</b>		Used client sample: N								
Total Recoverable Lithium	DUP	1506834-01	ND	6.6508		ug/L			20	J
	MS	1506834-01	ND	200.51	200.00	ug/L	100		75 - 125	
	MSD	1506834-01	ND	203.66	200.00	ug/L	1.6	102	20	75 - 125
Total Recoverable Strontium	DUP	1506834-01	897.05	873.82		ug/L	2.3		20	
	MS	1506834-01	897.05	1356.4	500.00	ug/L	91.9		75 - 125	
	MSD	1506834-01	897.05	1385.7	500.00	ug/L	2.1	97.7	20	75 - 125
<b>QC Batch ID: BYC2290</b>		Used client sample: N								
Dissolved Mercury	DUP	1506916-08	ND	ND		ug/L			20	
	MS	1506916-08	ND	0.99250	1.0000	ug/L	99.2		70 - 130	
	MSD	1506916-08	ND	0.99000	1.0000	ug/L	0.3	99.0	20	70 - 130
<b>QC Batch ID: BYC2431</b>		Used client sample: N								
Dissolved Antimony	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	45.668	40.816	ug/L	112		70 - 130	
	MSD	1506945-03	ND	47.254	40.816	ug/L	3.4	116	20	70 - 130
Dissolved Arsenic	DUP	1506945-03	2.7200	2.9970		ug/L	9.7		20	
	MS	1506945-03	2.7200	128.25	102.04	ug/L	123		70 - 130	
	MSD	1506945-03	2.7200	124.27	102.04	ug/L	3.1	119	20	70 - 130
Dissolved Barium	DUP	1506945-03	227.97	231.76		ug/L	1.6		20	
	MS	1506945-03	227.97	267.13	40.816	ug/L	95.9		70 - 130	
	MSD	1506945-03	227.97	271.32	40.816	ug/L	1.6	106	20	70 - 130
Dissolved Beryllium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	46.172	40.816	ug/L	113		70 - 130	
	MSD	1506945-03	ND	46.198	40.816	ug/L	0.1	113	20	70 - 130
Dissolved Cadmium	DUP	1506945-03	ND	ND		ug/L			20	
	MS	1506945-03	ND	45.554	40.816	ug/L	112		70 - 130	
	MSD	1506945-03	ND	47.162	40.816	ug/L	3.5	116	20	70 - 130
Dissolved Chromium	DUP	1506945-03	1.8060	1.5440		ug/L	15.6		20	J
	MS	1506945-03	1.8060	41.306	40.816	ug/L	96.8		70 - 130	
	MSD	1506945-03	1.8060	40.728	40.816	ug/L	1.4	95.4	20	70 - 130
Dissolved Cobalt	DUP	1506945-03	1.0670	1.0620		ug/L	0.5		20	
	MS	1506945-03	1.0670	40.679	40.816	ug/L	97.0		70 - 130	
	MSD	1506945-03	1.0670	40.020	40.816	ug/L	1.6	95.4	20	70 - 130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

Reported: 04/10/2015 9:22  
Project: Ground Water Samples  
Project Number: 107-2 Injection Well  
Project Manager: Mary Filippi

### Metals Analysis

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: BYC2431</b>		Used client sample: N									
Dissolved Copper	DUP	1506945-03	0.33600	0.32500		ug/L	3.3		20		J
	MS	1506945-03	0.33600	106.88	102.04	ug/L		104		70 - 130	
	MSD	1506945-03	0.33600	104.30	102.04	ug/L	2.4	102	20	70 - 130	
Dissolved Lead	DUP	1506945-03	ND	ND		ug/L			20		
	MS	1506945-03	ND	102.87	102.04	ug/L		101		70 - 130	
	MSD	1506945-03	ND	105.66	102.04	ug/L	2.7	104	20	70 - 130	
Dissolved Manganese	DUP	1506945-03	89.940	91.861		ug/L	2.1		20		
	MS	1506945-03	89.940	192.84	102.04	ug/L		101		70 - 130	
	MSD	1506945-03	89.940	188.05	102.04	ug/L	2.5	96.1	20	70 - 130	
Dissolved Molybdenum	DUP	1506945-03	0.91400	0.90900		ug/L	0.5		20		J
	MS	1506945-03	0.91400	44.581	40.816	ug/L		107		70 - 130	
	MSD	1506945-03	0.91400	45.626	40.816	ug/L	2.3	110	20	70 - 130	
Dissolved Nickel	DUP	1506945-03	3.8360	3.8520		ug/L	0.4		20		
	MS	1506945-03	3.8360	102.61	102.04	ug/L		96.8		70 - 130	
	MSD	1506945-03	3.8360	101.38	102.04	ug/L	1.2	95.6	20	70 - 130	
Dissolved Selenium	DUP	1506945-03	ND	ND		ug/L			20		
	MS	1506945-03	ND	132.61	102.04	ug/L		130		70 - 130	
	MSD	1506945-03	ND	128.83	102.04	ug/L	2.9	126	20	70 - 130	
Dissolved Silver	DUP	1506945-03	ND	ND		ug/L			20		
	MS	1506945-03	ND	42.036	40.816	ug/L		103		70 - 130	
	MSD	1506945-03	ND	41.821	40.816	ug/L	0.5	102	20	70 - 130	
Dissolved Thallium	DUP	1506945-03	ND	ND		ug/L			20		
	MS	1506945-03	ND	39.887	40.816	ug/L		97.7		70 - 130	
	MSD	1506945-03	ND	41.049	40.816	ug/L	2.9	101	20	70 - 130	
Dissolved Vanadium	DUP	1506945-03	ND	ND		ug/L			20		
	MS	1506945-03	ND	39.488	40.816	ug/L		96.7		70 - 130	
	MSD	1506945-03	ND	38.982	40.816	ug/L	1.3	95.5	20	70 - 130	
Dissolved Zinc	DUP	1506945-03	2.3370	2.2960		ug/L	1.8		20		J
	MS	1506945-03	2.3370	125.02	102.04	ug/L		120		70 - 130	
	MSD	1506945-03	2.3370	121.14	102.04	ug/L	3.2	116	20	70 - 130	
<b>QC Batch ID: BYC2532</b>		Used client sample: N									
Dissolved Boron	DUP	1506947-01	46.058	44.182		ug/L	4.2		20		J
	MS	1506947-01	46.058	1146.3	1020.4	ug/L		108		85 - 115	
	MSD	1506947-01	46.058	1134.2	1020.4	ug/L	1.1	107	20	85 - 115	
Dissolved Iron	DUP	1506947-01	ND	ND		ug/L			20		
	MS	1506947-01	ND	1117.0	1020.4	ug/L		109		85 - 115	
	MSD	1506947-01	ND	1119.3	1020.4	ug/L	0.2	110	20	85 - 115	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



BSK Associates Fresno  
1414 Stanislaus St  
Fresno, CA93706  
559-497-2888 (Main)  
559-485-6935 (FAX)

**A5C1800**

4/06/2015

Invoice: A506910

Misty Orton  
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

**RE: Report for A5C1800 General: Project Manager-Misty Orton**

Dear Misty Orton,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 3/23/2015. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Kijuana Hartshorn, Project Coordinator

If additional clarification of any information is required, please contact your Project Manager, Stephane Maupas, at (800) 877-8310 or (559) 497-2888 x212.



Accredited in Accordance with NELAP  
ORELAP #4021

A5C1800 FINAL 04062015 1603

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

[www.BSKAssociates.com](http://www.BSKAssociates.com)

Page 1 of 8

**A5C1800**

General: Project Manager-Misty Orton

**Case Narrative****Project and Report Details**

Client: BC Laboratories  
 Report To: Misty Orton  
 Project #: 1506719  
 Received: 3/23/2015 - 09:35  
 Report Due: 4/06/2015

**Invoice Details**

Invoice To: BC Laboratories  
 Invoice Attn: Misty Orton  
 Project PO#: -

**Sample Receipt Conditions**

Cooler: Default Cooler  
 Temperature on Receipt °C: 13.9

Containers Intact  
 COC/Labels Agree  
 Received On Wet Ice  
 Packing Material - Bubble Wrap  
 Sample(s) were received in temperature range.  
 Initial receipt at BSK-FAL

**Data Qualifiers**

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

**Report Distribution**

Recipient(s)	Report Format	CC:
Misty Orton	FINAL.RPT	

A5C1800 FINAL 04062015 1603

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 2 of 8

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



A5C1800

General: Project Manager-Misty Orton

1506719

## Certificate of Analysis

Sample ID: A5C1800-01

Sampled By: Client

Sample Description: 1506719-01

Sample Date - Time: 03/19/15 - 11:40

Matrix: Water

Sample Type: Grab

## BSK Associates Fresno

## Radiological

Analyte	Method	Result	Units	Batch	Prepared	Analyzed	Qual
Gross Alpha	EPA 00-02	ND	pCi/L	A503420	03/27/15	03/30/15	
1.65 Sigma Uncertainty		0.110	±				
MDA95		536	pCi/L				

A5C1800 FINAL 04062015 1603

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 3 of 8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



**A5C1800**

General: Project Manager-Misty Orton

**BSK Associates Fresno  
Radiological Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	--------	-----	-----------	---------------	------

**EPA 00-02 - Quality Control**

Batch: A503420  
Prep Method: EPA 00-02

Prepared: 3/27/2015  
Analyst: SAB

**Blank (A503420-BLK1)**

1.65 Sigma Uncertainty	ND			±						03/30/15	
Gross Alpha	ND	3	pCi/L							03/30/15	
MDA95	ND	0.00	pCi/L							03/30/15	

**Blank Spike (A503420-BS1)**

Gross Alpha	29.9	3	pCi/L	30		100	80-120			03/30/15	
-------------	------	---	-------	----	--	-----	--------	--	--	----------	--

**Blank Spike Dup (A503420-BSD1)**

Gross Alpha	26.8	3	pCi/L	30		89	80-120	11	50	03/30/15	
-------------	------	---	-------	----	--	----	--------	----	----	----------	--

**Matrix Spike (A503420-MS1), Source: A5C1443-01**

Gross Alpha	80.7	3	pCi/L	120	ND	67	70-130			03/30/15	MS1.0 Low
-------------	------	---	-------	-----	----	----	--------	--	--	----------	-----------

**Matrix Spike (A503420-MS2), Source: A5C1781-03**

Gross Alpha	82.8	3	pCi/L	120	ND	67	70-130			03/30/15	MS1.0 Low
-------------	------	---	-------	-----	----	----	--------	--	--	----------	-----------

**Matrix Spike Dup (A503420-MSD1), Source: A5C1443-01**

Gross Alpha	104	3	pCi/L	120	ND	87	70-130	25	50	03/30/15	
-------------	-----	---	-------	-----	----	----	--------	----	----	----------	--

**Matrix Spike Dup (A503420-MSD2), Source: A5C1781-03**

Gross Alpha	81.8	3	pCi/L	120	ND	66	70-130	1	50	03/30/15	MS1.0 Low
-------------	------	---	-------	-----	----	----	--------	---	----	----------	-----------

A5C1800 FINAL 04062015 1603

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 4 of 8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



A5C1800

General: Project Manager-Misty Orton

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps.
Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
J-value is equivalent to DNQ (Detected, not quantified) which is a trace value.
(1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136.
Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts.
The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

Table with 4 columns: Unit/Abbreviation, Definition, Unit/Abbreviation, Definition. Includes mg/L, mg/Kg, µg/L, µg/Kg, %, NR, MDL, RL, ND, pCi/L, RL Mult, MCL, MDA95, MPN, CFU, Absent, Present.

BSK is not accredited under the NELAC program for the following parameters: \*\*NA\*\*

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

Table listing certifications for Fresno: State of California - ELAP, State of Nevada, EPA - UCMR3, State of Hawaii, State of Oregon - NELAC, State of Washington.

Sacramento

Table listing certification for Sacramento: State of California - ELAP.

Vancouver

Table listing certification for Vancouver: State of Oregon - NELAC, State of Washington.

A5C1800 FINAL 04062015 1603

Printed: 4/6/2015

QA-RP-0001-10 Final.rpt

www.BSKAssociates.com

Page 5 of 8

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



A5C1800



03232015

BCLab4911

Turnaround: Standard

Due Date: 4/6/2015



BC Laboratories



Printed: 3/23

Page 6 of 8  
Page 1 of 1

SUBCONTRACT ORDER

BC Laboratories  
1506719

13.9

ASC1800  
BCLab4911

03/23/2015  
10



SENDING LABORATORY:

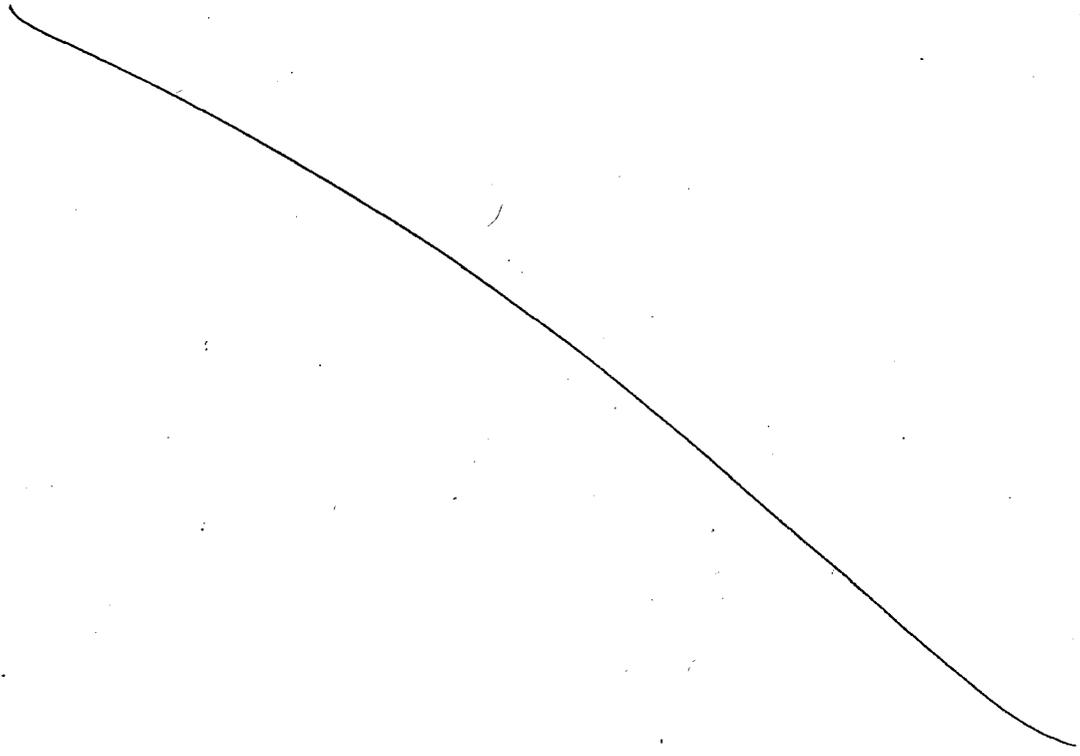
BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Misty Orton

RECEIVING LABORATORY:

BSK Analytical Labs  
1414 Stanislaus Street  
Fresno, CA 93706  
Phone: (800) 877-8310  
FAX: (559) 485-6935

BSKSA

Analysis	Due	Expires	Comments
Sample ID: 1506719-01	Water	Sampled: 03/19/15 11:40	
EPA 900.0 Gross Alpha	04/02/15 17:00	09/16/15 11:40	
Containers supplied:			



Released By: [Signature] Date: 3/20/15
 Received By: [Signature] Date: 3/23/15 9:35  
 Released By: [Signature] Date: On Trac, Wet, BW
 Received By: [Signature] Date: 3/23/15 9:35

BSKSA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BSK Associates SR-FL-0002-12

A5C1800  
BCLab4911

03/23/2015  
10



Sample Integrity

BSK Bottles: Yes  No  Page 1 of 1

COC Info		Yes	No	NA	Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
If samples were taken today, is there evidence that chilling has begun?		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Did all bottles arrive unbroken and intact?		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Did all bottle labels agree with COC?		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Were correct containers and preservatives received for the tests requested?		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Were there bubbles in the VOA vials? (Volatiles Only)		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Was a sufficient amount of sample received?		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do samples have a hold time <72 hours?		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Was PM notified of discrepancies? PM: _____ By/Time: _____		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Bottles Received	Description	Checks	Passed?	Notes
		Y	N	
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)			
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$			
	None (P) <sup>White Cap</sup>			
	Cr6 (P) <sup>Br. Green Label</sup> $\text{NH}_4\text{OH}/\text{NH}_4\text{I}_2\text{SO}_4$ DW	pH > 8	Y N	
	Cr6 (P) <sup>Pink Label</sup> Hex Chrome Buffer DW	pH 9-9.5	Y N	
	Cr6 (P) <sup>Pink Label</sup> Hex Chrome Buffer WW	pH 9.3-9.7	Y N	
	$\text{HNO}_3$ (P) <sup>Red Cap</sup>			IC*
	$\text{H}_2\text{SO}_4$ (P) or (AG) <sup>Yellow Cap/Label</sup>	pH < 2	Y N	
	$\text{NaOH}$ (P) <sup>Green Cap</sup>	Cl, pH > 10	Y N	
	$\text{NaOH} + \text{ZnAc}$ (P)	pH > 9	Y N	
	Dissolved Oxygen 300ml (g)			
	None (AG) 608/8081/8082, 625, 632/8321, 815f, 8270			
	$\text{HCl}$ (AG) <sup>LI. Blue Label</sup> O&G, Diesel			
	$\text{Na}_2\text{O}_3 + \text{HCl}$ (AG) <sup>LI. Pink Label</sup> 525			
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549			
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) <sup>Blue Label</sup> 547, 515, 548, THM, 524			
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) <sup>Blue Label</sup> 604, 505			
	$\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) <sup>Orange Label</sup> 531	pH < 3	Y N	
	$\text{NH}_4\text{Cl}$ (AG) <sup>Purple Label</sup> 552			
	EDA (AG) <sup>Brown Label</sup> DBPs			
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624			
	Buffer pH 4 (CG)			
	None (CG)			
	$\text{H}_3\text{PO}_4$ (CG) <sup>Salmon Label</sup>			
	Other:			
	Asbestos 1Liter Plastic w/ Foil			
	Low Level Hg / Metals Double Baggie			
	Bottled Water			
	Clear Glass Jar: 250 / 500 / 1 Liter			
	Soil Tube Brass / Steel / Plastic			
	Tedlar Bag / Plastic Bag			

Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
	S P				S P	
S P				S P		

Comments

Labeled by: SD @ 10:49

Labels checked by: MW @ 10:25

RUSH Paged by: \_\_\_\_\_

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

April 10, 2015

Ms. Misty Orton  
BC Laboratories  
4100 Atlas Ct.  
Bakersfield, CA 93308

RE: Project: 1506719  
Pace Project No.: 30144016

Dear Ms. Orton:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2015. 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,

Carin Ferris  
carin.ferris@pacelabs.com  
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 1 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

### CERTIFICATIONS

Project: 1506719  
Pace Project No.: 30144016

#### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ACLASS DOD-ELAP Accreditation #: ADE-1544  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California/TNI Certification #: 04222CA  
Colorado Certification  
Connecticut Certification #: PH-0694  
Delaware Certification  
Florida/TNI Certification #: E87683  
Guam/PADEP Certification  
Hawaii/PADEP Certification  
Idaho Certification  
Illinois/PADEP Certification  
Indiana/PADEP Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: 90133  
Louisiana DHH/TNI Certification #: LA140008  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: PA00091  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification  
Missouri Certification #: 235

Montana Certification #: Cert 0082  
Nebraska Certification #: NE-05-29-14  
Nevada Certification  
New Hampshire/TNI Certification #: 2976  
New Jersey/TNI Certification #: PA 051  
New Mexico Certification  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Oregon/TNI Certification #: PA200002  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
South Dakota Certification  
Tennessee Certification #: TN2867  
Texas/TNI Certification #: T104704188  
Utah/TNI Certification #: PA014572014-4  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin/PADEP Certification  
Wyoming Certification #: BTMS-Q

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 2 of 13



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**SAMPLE SUMMARY**

Project: 1506719  
Pace Project No.: 30144016

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30144016001	1506719-01	Drinking Water	03/19/15 11:40	03/26/15 10:00

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 3 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**SAMPLE ANALYTE COUNT**

Project: 1506719  
Pace Project No.: 30144016

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30144016001	1506719-01	EPA 903.1	JC2	1
		EPA 904.0	JLW	1

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

### PROJECT NARRATIVE

Project: 1506719  
Pace Project No.: 30144016

Method: EPA 903.1  
Description: 903.1 Radium 226  
Client: BC Laboratories  
Date: April 10, 2015

**General Information:**

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Additional Comments:**

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 5 of 13

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**PROJECT NARRATIVE**

Project: 1506719  
Pace Project No.: 30144016

Method: EPA 904.0  
Description: 904.0 Radium 228  
Client: BC Laboratories  
Date: April 10, 2015

**General Information:**

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

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

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

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

**Additional Comments:**

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

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: 1506719  
Pace Project No.: 30144016

Sample: 1506719-01 Lab ID: 30144016001 Collected: 03/19/15 11:40 Received: 03/26/15 10:00 Matrix: Drinking Water  
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, six mls of nitric acid were added to the sample to meet the sample preservation requirement of pH <2 for radiochemistry analysis.  
• Sample Acceptance Policy Waiver on file from the client.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 903.1	0.237 ± 0.329 (0.551) C:NA T:96%	pCi/L	04/08/15 11:36	13982-63-3	
Radium-228	EPA 904.0	0.814 ± 0.438 (0.760) C:80% T:83%	pCi/L	04/06/15 16:09	15262-20-1	

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.  
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Pace Analytical Services, Inc.  
 1638 Roseytown Road - Suites 2,3,4  
 Greensburg, PA 15601  
 (724)850-5600

**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 1506719  
 Pace Project No.: 30144016

QC Batch: RADC/23886 Analysis Method: EPA 903.1  
 QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226  
 Associated Lab Samples: 30144016001

METHOD BLANK: 872332 Matrix: Water  
 Associated Lab Samples: 30144016001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.350 ± 0.326 (0.430) C:NA T:99%	pCi/L	04/08/15 11:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, Inc..

Page 8 of 13



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

**QUALITY CONTROL - RADIOCHEMISTRY**

Project: 1506719  
Pace Project No.: 30144016

QC Batch: RADC/23925	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
Associated Lab Samples: 30144016001	

METHOD BLANK: 874027	Matrix: Water
Associated Lab Samples: 30144016001	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.404 ± 0.305 (0.598) C:81% T:93%	pCi/L	04/06/15 16:09	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.  
1638 Roseytown Road - Suites 2,3,4  
Greensburg, PA 15601  
(724)850-5600

## QUALIFIERS

Project: 1506719  
Pace Project No.: 30144016

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
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.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
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.  
Act - Activity  
Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).  
Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)  
(MDC) - Minimum Detectable Concentration  
Trac - Tracer Recovery (%)  
Carr - Carrier Recovery (%)  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

Date: 04/10/2015 10:56 AM

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

Page 10 of 13



**SUBCONTRACT ORDER**  
**BC Laboratories**  
**1506719**

**SENDING LABORATORY:**

BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308  
Phone: 661-327-4911  
FAX: 661-327-1918  
Project Manager: Misty Orton

**RECEIVING LABORATORY:**

PACE Analytical  
1638 Roseytown Road, Ste 2,3 &4  
Greensburg, PA 15601  
Phone: (724) 850-5600  
FAX: (724) 850-5601

**PACEA**

Analysis	Due	Expires	Comments
			<b>30144016</b>
<b>Sample ID: 1506719-01</b>	<b>Water</b>	<b>Sampled: 03/19/15 11:40</b>	<i>001</i>
EPA 903.0 Radium 226	04/02/15 17:00	09/16/15 11:40	
EPA 904.0 Radium 228	04/02/15 17:00	09/16/15 11:40	
<i>Containers supplied:</i>			

*MBJ*
*3/20/15*
*Misty*
*3-26-15 (COR)*

---

Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_

Released By \_\_\_\_\_ Date \_\_\_\_\_ Received By \_\_\_\_\_ Date \_\_\_\_\_

**PACEA** Page 11 of 13  
Page 1 of 1

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.*

Sample Condition Upon Receipt



Client Name: BC

Project # 30144016

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other

Tracking #: 17965376036167733

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no Biological Tissue Is Frozen: Yes No

Packing Material: ~~Bubble Wrap~~ Bubble Bags None Other

Thermometer Used NA Type of Ice: Wet Blue  None  Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: NA °C Correction Factor: °C Final Temp: °C

Temp should be above freezing to 6°C

Comments:

Date and initials of person examining contents: April 3-7-15

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	WJT	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. added 6mL HNO3 to water bottles
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3-26-15 1200 PACZ
exceptions: VOA, coliform, TOC, O&G, Phenols	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed AMI Lot # of added preservative D15-0260
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [Signature] Date: 012715

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) Page 12 of 13





Modus Inc  
P.O. Box 1809  
Porterville, CA 93258

**Reported:** 04/10/2015 9:22  
**Project:** Ground Water Samples  
**Project Number:** 107-2 Injection Well  
**Project Manager:** Mary Filippi

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- A17 Surrogate not reportable due to sample dilution.
- Q02 Matrix spike precision is not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.

