

### Technical Report for

**Verdad Oil and Gas Corporation**  
**Cervi 26 Confirmation**

Spill# 448845  
Complaint 200440955  
Document 2495762

**SGS Accutest Job Number: D93126**

**Sampling Date: 04/19/17**

**Report to:**

**Verdad Oil and Gas Corporation**  
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**Denver, CO**  
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**Total number of pages in report: 52**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

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**Laboratory Director**

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Certifications: CO (CO00049), ID (CO00049), NE (NE-OS-06-04), ND (R-027), NJ (CO007), OK (D9942)  
UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.

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## Sample Summary

**Verdad Oil and Gas Corporation**

**Job No: D93126**

**Cervi 26 Confirmation**

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D93126-1	04/19/17	14:30 MC	04/19/17	SO	Soil	1
D93126-2	04/19/17	14:30 MC	04/19/17	SO	Soil	2
D93126-3	04/19/17	14:30 MC	04/19/17	SO	Soil	3
D93126-4	04/19/17	14:30 MC	04/19/17	SO	Soil	4
D93126-5	04/19/17	14:30 MC	04/19/17	SO	Soil	5
D93126-6	04/19/17	14:30 MC	04/19/17	SO	Soil	6
D93126-7	04/19/17	14:30 MC	04/19/17	SO	Soil	7
D93126-8	04/19/17	14:30 MC	04/19/17	SO	Soil	8

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Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** D93126  
**Account:** Verdad Oil and Gas Corporation  
**Project:** Cervi 26 Confirmation  
**Collected:** 04/19/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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D93126-1      1

No hits reported in this sample.

D93126-2      2

No hits reported in this sample.

D93126-3      3

No hits reported in this sample.

D93126-4      4

No hits reported in this sample.

D93126-5      5

No hits reported in this sample.

D93126-6      6

No hits reported in this sample.

D93126-7      7

No hits reported in this sample.

D93126-8      8

No hits reported in this sample.

**Sample Results**

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**Report of Analysis**

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## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> 1	
<b>Lab Sample ID:</b> D93126-1	<b>Date Sampled:</b> 04/19/17
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/19/17
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 98.1
<b>Project:</b> Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41735.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

**Purgeable Aromatics**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	103%		65-142%
17060-07-0	1,2-Dichloroethane-D4	109%		70-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> 1 <b>Lab Sample ID:</b> D93126-1 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8015B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 98.1
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37854.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> 1 <b>Lab Sample ID:</b> D93126-1 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 98.1
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53310.D	1	04/26/17	GN	04/22/17	OP14904	GFI2240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	9.8	8.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		41-134%		

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ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
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## Report of Analysis

32  
3

<b>Client Sample ID:</b> 2 <b>Lab Sample ID:</b> D93126-2 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.2
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41736.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

### Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	108%		70-130%

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

32  
3

<b>Client Sample ID:</b> 2 <b>Lab Sample ID:</b> D93126-2 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8015B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.2
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37855.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%		

---

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
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## Report of Analysis

32  
3

<b>Client Sample ID:</b> 2 <b>Lab Sample ID:</b> D93126-2 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.2
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53332.D	1	04/26/17	GN	04/22/17	OP14904	GFI2240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	83%		41-134%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> 3 <b>Lab Sample ID:</b> D93126-3 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 96.3
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41737.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

**Purgeable Aromatics**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.52	ug/kg	
108-88-3	Toluene	ND	2.1	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	108%		70-130%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> 3	<b>Date Sampled:</b> 04/19/17
<b>Lab Sample ID:</b> D93126-3	<b>Date Received:</b> 04/19/17
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.3
<b>Method:</b> SW846 8015B	
<b>Project:</b> Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37856.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	99%		60-140%		

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> 3 <b>Lab Sample ID:</b> D93126-3 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 96.3
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53395.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	100%		41-134%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.4  
3

<b>Client Sample ID:</b> 4 <b>Lab Sample ID:</b> D93126-4 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 98.4
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41738.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	4.98 g	5.0 ml
Run #2		

### Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	114%		70-130%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.4  
3

<b>Client Sample ID:</b> 4 <b>Lab Sample ID:</b> D93126-4 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8015B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 98.4
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37859.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	105%		60-140%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.4  
3

<b>Client Sample ID:</b> 4 <b>Lab Sample ID:</b> D93126-4 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 98.4
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53383.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		41-134%		

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ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
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## Report of Analysis

Client Sample ID: 5		
Lab Sample ID: D93126-5		Date Sampled: 04/19/17
Matrix: SO - Soil		Date Received: 04/19/17
Method: SW846 8260B		Percent Solids: 97.8
Project: Cervi 26 Confirmation		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41739.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.05 g	5.0 ml
Run #2		

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	108%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

3.5  
3

<b>Client Sample ID:</b> 5 <b>Lab Sample ID:</b> D93126-5 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8015B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.8
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37860.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%		

---

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
--	--

## Report of Analysis

3.5  
3

<b>Client Sample ID:</b> 5 <b>Lab Sample ID:</b> D93126-5 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.8
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Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53397.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		41-134%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.6  
3

<b>Client Sample ID:</b> 6 <b>Lab Sample ID:</b> D93126-6 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.8
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41740.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.03 g	5.0 ml
Run #2		

### Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	112%		70-130%
460-00-4	4-Bromofluorobenzene	104%		65-142%
17060-07-0	1,2-Dichloroethane-D4	113%		70-130%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

3.6  
3

<b>Client Sample ID:</b> 6 <b>Lab Sample ID:</b> D93126-6 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8015B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.8
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37861.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	102%		60-140%		

---

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
--	--

## Report of Analysis

3.6  
3

<b>Client Sample ID:</b> 6 <b>Lab Sample ID:</b> D93126-6 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.8
--	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53399.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	107%		41-134%		

---

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
--	--

## Report of Analysis

37  
3

<b>Client Sample ID:</b> 7	
<b>Lab Sample ID:</b> D93126-7	<b>Date Sampled:</b> 04/19/17
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 04/19/17
<b>Method:</b> SW846 8260B	<b>Percent Solids:</b> 97.1
<b>Project:</b> Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41741.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.06 g	5.0 ml
Run #2		

**Purgeable Aromatics**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	105%		65-142%
17060-07-0	1,2-Dichloroethane-D4	109%		70-130%

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

37  
3

<b>Client Sample ID:</b> 7 <b>Lab Sample ID:</b> D93126-7 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8015B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.1
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37862.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		60-140%		

---

ND = Not detected RL = Reporting Limit E = Indicates value exceeds calibration range	MDL = Method Detection Limit J = Indicates an estimated value B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound
--	--

## Report of Analysis

37  
3

<b>Client Sample ID:</b> 7 <b>Lab Sample ID:</b> D93126-7 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846-8015B SW846 3546 <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 97.1
--	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53401.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		41-134%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



<b>Client Sample ID:</b> 8 <b>Lab Sample ID:</b> D93126-8 <b>Matrix:</b> SO - Soil <b>Method:</b> SW846 8260B <b>Project:</b> Cervi 26 Confirmation	<b>Date Sampled:</b> 04/19/17 <b>Date Received:</b> 04/19/17 <b>Percent Solids:</b> 96.9
---	--

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41742.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

Run #	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

**Purgeable Aromatics**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.52	ug/kg	
108-88-3	Toluene	ND	2.1	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	112%		70-130%
460-00-4	4-Bromofluorobenzene	102%		65-142%
17060-07-0	1,2-Dichloroethane-D4	106%		70-130%

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis



<b>Client Sample ID:</b> 8	<b>Date Sampled:</b> 04/19/17
<b>Lab Sample ID:</b> D93126-8	<b>Date Received:</b> 04/19/17
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.9
<b>Method:</b> SW846 8015B	
<b>Project:</b> Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37863.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> 8	<b>Date Sampled:</b> 04/19/17
<b>Lab Sample ID:</b> D93126-8	<b>Date Received:</b> 04/19/17
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 96.9
<b>Method:</b> SW846-8015B SW846 3546	
<b>Project:</b> Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53403.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	87%		41-134%		

---

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

**Misc. Forms**

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**Custody Documents and Other Forms**

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**Includes the following where applicable:**

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #
SGS Accutest Quote #
SGS Accutest Job # D93126

Client / Reporting Information, Project Information, Requested Analysis, Matrix Codes, Collection table, Turnaround Time, Data Deliverable Information, Sample Custody

4.1
4

D93126: Chain of Custody

Page 1 of 3



# SGS Accutest Sample Receipt Summary

Job Number: D93126

Client: VERDAD

Project: CERVI 26 CONFIRMATION

Date / Time Received: 4/19/2017 3:30:00 PM

Delivery Method: \_\_\_\_\_

Airbill #'s: HD

Cooler Temps (Initial/Adjusted): #1: (2.4/2.4):

**Cooler Security**

Y or N

Y or N

- |                           |                                     |                          |                      |                                     |                          |
|---------------------------|-------------------------------------|--------------------------|----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present:      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smp Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Cooler Temperature**

Y or N

- |                              |                                     |                          |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>Bar Therm;</u>                   |                          |
| 3. Cooler media:             | <u>Ice (Bag)</u>                    |                          |
| 4. No. Coolers:              | <u>1</u>                            |                          |

**Quality Control Preservation**

Y or N

N/A

- |                                 |                                     |                          |                                     |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC:    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| 4. VOCs headspace free:         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

**Sample Integrity - Documentation**

Y or N

- |  |                                     |                          |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete:        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Sample Integrity - Condition**

Y or N

- |                                  |                                     |                          |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT:       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample:          | <u>Intact</u>                       |                          |

**Sample Integrity - Instructions**

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis:  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Compositing instructions clear:        | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear:          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

4.1  
4

D93126: Chain of Custody

Page 3 of 3

**GC/MS Volatiles****5****QC Data Summaries**

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**Includes the following where applicable:**

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

# Method Blank Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-MB	5V41719.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	25	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	110	50	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	91%	70-130%
2037-26-5	Toluene-D8	109%	70-130%
460-00-4	4-Bromofluorobenzene	102%	65-142%
17060-07-0	1,2-Dichloroethane-D4	104%	70-130%

5.1.1  
5

# Method Blank Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-MB	5V41720.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples: Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	89%	70-130%
2037-26-5	Toluene-D8	107%	70-130%
460-00-4	4-Bromofluorobenzene	103%	65-142%
17060-07-0	1,2-Dichloroethane-D4	110%	70-130%

5.1.2  
5

# Blank Spike Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-BS	5V41717.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	39.2	78	70-130
100-41-4	Ethylbenzene	50	45.5	91	70-130
108-88-3	Toluene	50	44.2	88	70-130
1330-20-7	Xylene (total)	150	137	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	70-130%
2037-26-5	Toluene-D8	109%	70-130%
460-00-4	4-Bromofluorobenzene	100%	65-142%
17060-07-0	1,2-Dichloroethane-D4	106%	70-130%

\* = Outside of Control Limits.

5.2.1  
 5

# Blank Spike Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-BS	5V41718.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples: Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	102%	65-142%
17060-07-0	1,2-Dichloroethane-D4	105%	70-130%

\* = Outside of Control Limits.

5.2.2  
5

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D93168-5MS	5V41726.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5MSD	5V41727.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5	5V41725.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93168-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	12700	10500	82	12700	9530	75	10	43-135/30
100-41-4	Ethylbenzene	8180	12700	18400	80	12700	17000	69	8	30-144/30
108-88-3	Toluene	ND	12700	11700	92	12700	10500	82	11	27-144/30
1330-20-7	Xylene (total)	6800	38200	41400	90	38200	37900	81	9	13-154/30

CAS No.	Surrogate Recoveries	MS	MSD	D93168-5	Limits
1868-53-7	Dibromofluoromethane	92%	89%	89%	70-130%
2037-26-5	Toluene-D8	106%	108%	107%	70-130%
460-00-4	4-Bromofluorobenzene	105%	100%	104%	65-142%
17060-07-0	1,2-Dichloroethane-D4	103%	107%	108%	70-130%

\* = Outside of Control Limits.

5.3.1  
 5

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D93168-5MS	5V41728.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5MSD	5V41729.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5	5V41725.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93168-5 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
---------	----------	-------------------	------------	-------------	---------	----------------	--------------	----------	-----	-------------------

CAS No.	Surrogate Recoveries	MS	MSD	D93168-5	Limits
1868-53-7	Dibromofluoromethane	88%	89%	89%	70-130%
2037-26-5	Toluene-D8	110%	110%	107%	70-130%
460-00-4	4-Bromofluorobenzene	105%	104%	104%	65-142%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	108%	70-130%

\* = Outside of Control Limits.

5.3.2  
 5

## GC Volatiles

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### QC Data Summaries

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**Includes the following where applicable:**

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

# Method Blank Summary

Job Number: D93126  
Account: VEROGTXD Verdad Oil and Gas Corporation  
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1847-MB	GA37847.D	1	04/25/17	MR	n/a	n/a	GGA1847

The QC reported here applies to the following samples:

Method: SW846 8015B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.9	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	99% 60-140%

# Blank Spike Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1847-BS	GA37848.D	1	04/26/17	MR	n/a	n/a	GGA1847

The QC reported here applies to the following samples:

Method: SW846 8015B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	109	103	95	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	105%	60-140%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D93232-1MS	GA37851.D	1	04/26/17	MR	n/a	n/a	GGA1847
D93232-1MSD	GA37852.D	1	04/26/17	MR	n/a	n/a	GGA1847
D93232-1	GA37850.D	1	04/26/17	MR	n/a	n/a	GGA1847

The QC reported here applies to the following samples: Method: SW846 8015B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93232-1 mg/kg	Spike Q mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	148	128	86	148	123	83	4	70-131/30

CAS No.	Surrogate Recoveries	MS	MSD	D93232-1	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	109%	99%	60-140%

\* = Outside of Control Limits.

**GC Semi-volatiles****QC Data Summaries**

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**Includes the following where applicable:**

- **Method Blank Summaries**
- **Blank Spike Summaries**
- **Matrix Spike and Duplicate Summaries**

# Method Blank Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-MB2	FI53300.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-1, D93126-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	40	36	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	117% 41-134%

7.1.1  
7

# Method Blank Summary

Job Number: D93126  
Account: VEROGTXD Verdad Oil and Gas Corporation  
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-MB	FI53302.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-1, D93126-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	75% 41-134%

# Method Blank Summary

Job Number: D93126  
Account: VEROGTXD Verdad Oil and Gas Corporation  
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14907-MB	FI53375.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	98% 41-134%

# Blank Spike Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-BS	FI53304.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-1, D93126-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	250	174	70	35-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	106%	41-134%

\* = Outside of Control Limits.

# Blank Spike Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14907-BS	FI53377.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	250	280	112	35-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	101%	41-134%

7.2.2

7

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-MS	FI53306.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240
OP14904-MSD	FI53308.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240
D93126-1	FI53310.D	1	04/26/17	GN	04/22/17	OP14904	GFI2240

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-1, D93126-2

CAS No.	Compound	D93126-1 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	244	147	60	246	137	56	7	10-171/30

CAS No.	Surrogate Recoveries	MS	MSD	D93126-1	Limits
84-15-1	o-Terphenyl	87%	80%	90%	41-134%

\* = Outside of Control Limits.

7.3.1  
7

# Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D93126  
 Account: VEROGTXD Verdad Oil and Gas Corporation  
 Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14907-MS	FI53379.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
OP14907-MSD	FI53381.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
D93126-4	FI53383.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93126-4 mg/kg	Spike Q	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND	253	264	104	254	262	103	1	10-171/30

CAS No.	Surrogate Recoveries	MS	MSD	D93126-4	Limits
84-15-1	o-Terphenyl	95%	93%	93%	41-134%

\* = Outside of Control Limits.

7.3.2  
7