

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>SIMCOE LLC</b>	OGRID: <b>329736</b>
Contact Name: <b>Steve Moskal</b>	Contact Telephone: <b>(505) 330-9179</b>
Contact email: <b>smoskal@ikavenergy.com</b>	Incident # (assigned by OCD): <b>NRM2018233009</b> <b>Final</b>
Contact mailing address: <b>1199 Main Ste., Suite 101, Durango, CO 81301</b>	<b>cJK2016955639</b>

### Location of Release Source

Latitude: **36.720981°** Longitude: **-107.669287°**  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: <b>ROELOFS B 003</b>	Site Type: <b>Natural Gas Production Wellpad</b>
Date Release Discovered: <b>6/17/2020</b>	API# (if applicable): <b>30-045-08208</b>

Unit Letter	Section	Township	Range	County
<b>M</b>	<b>15</b>	<b>T29N</b>	<b>R08W</b>	<b>San Juan</b>

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>6.7</b>	Volume Recovered (bbls) <b>0</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) <b>135</b>	Volume Recovered (bbls) <b>0</b>
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

**BP discovered a leaking condensate tank on 6/17/2020. Leak was contained to berm, tank was emptied and shut in.**

**Remediation consisted of excavation with onsite soil shredding of approximately 750 yards of soil.**

State of New Mexico  
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Steve Moskal</u>	Title: <u>Environmental Coordinator</u>
Signature: _____	Date: <u>1/14/2021</u>
email: <u>smoskal@ikavenergy.com</u>	Telephone: <u>505-330-9179</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

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## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release? **Depth to water determined using SJ 03426 well permit.**

420 (ft bgs)

☐ Yes ☒ No

Did this release impact groundwater or surface water? **DTW ~420'; Surface drainage ~490' north.**

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? **Surface drainage ~490' north.**

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? **None identified.**

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? **Residence located 1,025 north of release point.**

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? **None identified within 500'.**

☒ Yes ☐ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? **Well SJ 03426 located ~975' from release point, based on NMOSE database.**

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? **None identified.**

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland? **None identified.**

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine? **None identified.**

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology? **None identified.**

☐ Yes ☒ No

Are the lateral extents of the release within a 100-year floodplain? **None identified.**

☐ Yes ☒ No

Did the release impact areas **not** on an exploration, development, production, or storage site?

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data - **Not Applicable**
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs - **Not Applicable**
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Steve Moskal Title: Environmental Coordinator

Signature: \_\_\_\_\_ Date: 1/14/2021

email: smoskal@ikavenergy.com Telephone: 505-330-9179

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

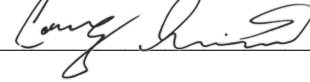
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Steve Moskal Title: Environmental Coordinator  
Signature:  Date: 1/14/2021  
email: smoskal@ikavenergy.com Telephone: 505-330-9179

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 5/10/22  
Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

# SIMCOE LLC

(Formerly BP America Production Company)

Roelofs B 003 - API: 30-045-08208

## Production Tank Release

Incident #: NRM2018233009 Federal Lease: SF078415

(M) Sec. 15 – T29N – R08W, San Juan County, New Mexico

### Summary Record of Impacted Soils Remediation

<u>June 29, 2020</u>	BP America submitted Form C-141 Initial Release Notification which included Remediation Plan and Siting Criteria documentation to support determination of applicable closure standards to the New Mexico Oil Conservation Division (NMOCD). <b><u>Official impact discovery dated, June 17, 2020.</u></b> [NMOCD incident file FN: nrm2018233009_06_30_2020_09_15_47.pdf].
<u>June 30, 2020</u>	NMOCD accepted C-141 application [see email attachment].
<u>September 21, 2020</u>	BP America requested time extension for commencement of site characterization/delineation activity [see email attachment].
<u>November 4, 2020</u>	BP America commenced delineation activity utilizing hollow stem auger drill rig. Notification submitted to NMOCD & Bureau of Land Management (BLM) on November 3, 2020 [see email attachment].
<u>November 5, 2020</u>	Delineation activity completed.
<u>November 23, 2020</u>	BP submitted Form C-141 Alternative Remediation Plan to implement soil shredding technique. Findings from the drilling delineation were also included. NMOCD received on the same day and approved with conditions on December 3, 2020. [NMOCD incident file FN: nrm2018233009_12_03_2020_09_47_40.pdf].
<u>December 7, 2020</u>	Notification of initial closure sampling scheduled for December 9, 2020 submitted to NMOCD and BLM ( <i>see email attachment within Site Remediation Section</i> ).
<u>December 9, 2020</u>	Prior to collecting closure samples, submittal of sampling plan to NMOCD for approval. NMOCD grants approval thereafter with specific conditions if encountered. Additional, notification of closure sampling scheduled for December 11, 2020 submitted to NMOCD and BLM ( <i>see email attachments within Site Remediation Section</i> ).
<u>December 10, 2020</u>	Received 12/09/2020 preliminary closure sample laboratory report. North half of east sidewall exceeded BTEX closure standard. Resampling of extended sidewall scheduled for 12/11/2020 ( <i>see email attachment within Site Remediation Section</i> ).
<u>December 14, 2020</u>	Received 12/11/2020 preliminary closure sample laboratory report of extended north half of east sidewall. <u>Summary table of results compiled within Site Remediation Section</u> . Notification of initial treated soil stockpile (TSP) sampling scheduled for December 17, 2020 also included ( <i>see email attachment within Treated Soil Remediation Section</i> ).
<u>December 18, 2020</u>	Received 12/17/2020 preliminary TSP laboratory report and submitted to NMOCD & BLM. Notification of subsequent TSP sampling scheduled for December 22, 2020 also included ( <i>see email attachment within Treated Soil Remediation Section</i> ).

December 23, 2020 Received 12/22/2020 preliminary TSP laboratory report and submitted to NMOCD & BLM. Notification of subsequent TSP sampling scheduled for the same day is also included (see email attachment within Treated Soil Remediation Section).

December 28, 2020 Received 12/23/2020 preliminary TSP laboratory report and submitted to NMOCD & BLM Summary table of results within Treated Soil Remediation Section (see email attachment within Treated Soil Remediation Section).

December 29, 2020 SIMCOE submits 19.15.29.13 NMAC rule reference to forgo excavation top four (4) feet re-vegetation closure standard until gas well plug and abandonment timeframe (see email attachment within Treated Soil Remediation Section).

December 31, 2020 Vadose zone sampling plan submitted to NMOCD & BLM via email (see email attachment within Vadose Zone Confirmation Section).

January 4, 2020 Completed excavation backfilling.

January 5, 2020 Conducted vadose zone sampling of treated stockpile areas. Aerial map and photos of sample locations included.

January 11, 2020 Received 01/05/2021 vadose zone soil sample final laboratory report. Summary table of results within Treated Soil Remediation Section.

The area of remedial activity will be sampled prior to or at final abandonment of the production well at the time of final reclamation to determine any necessary remedial action.



## **New Mexico OCD Application Submission was Approved by the OCD**

**From:** OCDOnline@state.nm.us <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Tuesday, June 30, 2020 9:44 AM  
**To:** Patti Campbell <[Patti.Campbell@bpx.com](mailto:Patti.Campbell@bpx.com)>

The Oil Conservation Division (OCD) has approved the application PO: B5UCN-200629-C-1410.  
The original application was submitted by Patti Campbell for BP AMERICA PRODUCTION COMPANY.

The user added the additional comment:

"To whom it may concern, The NMOCD has accepted the submitted C-141 and the tracking number for this event is NRM2018233009. Please retain this incident number as it is required for all future communication and submittals. NOTE: As of 12/13/2019, NMOCD has discontinued the use of the "RP" number. Thank you.  
Ramona Marcus, Compliance Officer NMOCD [Ramona.Marcus@state.nm.us](mailto:Ramona.Marcus@state.nm.us)".

If you are concerned about receiving this email or have any other questions,  
please feel free to contact our Santa Fe OCD office.

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**C-141 Initial Roelofs SVE Remediation Plan\_6.29.2020 print.pdf**

## Roelofs B 003 - -SVE Drilling Extension Request

Steven Moskal <Steven.Moskal@BPX.COM>

Mon 9/21/2020 12:41 PM

To: Cory Smith - NMOCD (Cory.Smith@state.nm.us)

Cc: Nelson Velez; Kyle Siesser

Cory,

I began to coordinate and obtain a drilling contractor for the installation of the SVE points beginning on June 6, 2020. The contractor's schedule has been erratic. I have reached out to another drilling contractor and have a tentative window within the first half of October. Bp requests a time extension to perform drilling for 45 days. Once drilling is complete, we will then be better prepared to design and purchase the appropriate SVE system by the end of the year.

Incident #NRM2018233009.

Please let me know if you approve.

Thank you,

Steve Moskal

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

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## Drilling Notification - Roelofs B 003 (SVE) & Brown Fed J 001 (Chem Inj)

Steven Moskal <Steven.Moskal@BPX.COM>

Tue 11/3/2020 11:22 AM

To: Cory Smith - NMOCD ([Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)); Adeloey, Abiodun <aadeloey@blm.gov>

Cc: Nelson Velez; Kyle Siesser; Jacob Harter

Cory and Emmanuel,

BP/Simcoe plans to begin drilling for the installation of the SVE points at the Roelofs B 003 tomorrow morning, followed by further delineation/potential closure sampling at the Brown Federal J 001 on Thursday or Friday of this week. The potential closure sampling at the Brown will only be to further define the extents of the release, not intended for FINAL closure.

Below are the NMOCD incident numbers and relevant information for each:

cJK2016955639/NRM2018233009 ROELOFS B 003 @ 30-045-08208

NCS1525853335 BROWN FEDERAL J #001 @ 30-045-29029

We plan to start around 8:00 AM tomorrow on the Roelofs, then will move to the Brown based on progress of the project. If you plan to attend either location, please contact myself or Nelson to confirm.

Thank you,

**Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

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# SITE REMEDICATION

## NRM2018233009 - Roelofs B 003 Excavation Sampling Notification

Steven Moskal <smoskal@ikavenergy.com>  
Mon 12/7/2020 2:56 PM

To: [OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us); Emmanuel Adelaye <aadeloye@blm.gov>  
Cc: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Nelson Velez; Kyle Siesser

This email serves as notification to execute soil sampling of the remedial excavation at the subject remediation site on Wednesday, 12/9/2020, at 1:30 PM. The excavation is continually progressing. A sampling plan will be shared with this group the morning of the scheduled sampling, or will follow NMAC 19.17.29 guidelines.

Please contact me with any questions.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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**From:** Adelaye, Abiodun A <aadeloye@blm.gov>  
**Sent:** Tuesday, December 8, 2020 7:38:16 AM  
**To:** Steven Moskal <smoskal@ikavenergy.com>; [OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us) <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Cc:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; [nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com) <[nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com)>; Kyle Siesser <[ksiesser@cottonwoodconsulting.com](mailto:ksiesser@cottonwoodconsulting.com)>  
**Subject:** Re: [EXTERNAL] NRM2018233009 - Roelofs B 003 Excavation Sampling Notification

Thank you Steve for the notification.

**Abiodun Adelaye (Emmanuel), EPS**  
*Bureau of Land Management*  
*Farmington Field Office*  
6251 College Blvd., Suite A  
Farmington, NM 87402  
Office Phone: 505-564-7665  
Cell Phone: 505-635-0984

## SIMCOE LLC - Roelofs B 003 Proposed Sampling Plan

Nelson Velez  
Wed 12/9/2020 1:01 PM

To: Cory Smith - NMOCD (Cory.Smith@state.nm.us)  
Cc: Adeloze, Abiodun A <aadeloze@blm.gov>; Steven Moskal <smoskal@ikavenergy.com>

Cory,

Attached is the proposed sampling plan for today's remediation closure event. The schematics shows the estimated square footage for the excavation base and sidewalls. Please let Steve Moskal know if you approve the sampling frequency proposed at the bottom of the page. Thank you.

### NELSON VELEZ

PO Box 1653  
Durango, CO 81302  
(505) 320-3489  
[www.cottonwoodconsulting.com](http://www.cottonwoodconsulting.com)

### Roelofs B 003 Proposed Sampling Plan.jpg

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Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
Wed 12/9/2020 1:22 PM

To: Nelson Velez  
Cc: Adeloze, Abiodun A <aadeloze@blm.gov>; Steven Moskal [smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)

Nelson/Steve,

OCD approves the proposed sampling plan. If there are any areas of staining/abnormality please make sure to either collect a grab sample of those areas or include them in your composite sampling per 19.15.29 NMAC.

Please include this approval in your Final C-141 as a hard copy will not be sent to you.

Thank you,

### Cory Smith • Environmental Specialist

Environmental Bureau  
EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>

**NRM2018233009 - Roelofs B 003 Excavation Sampling Notification 12/11/2020**

Steven Moskal <smoskal@ikavenergy.com>

Wed 12/9/2020 4:01 PM

To: Adeloze, Abiodun A <aadeloze@blm.gov>; OCD.Enviro@state.nm.us

Cc: Nelson Velez; Kyle Siesser; Don Buller don.buller@ikavenergy.com

Sampling of the remedial excavation is anticipated for Friday, 12/11/2020, at 1:30 PM. This is pending lab results expected tomorrow afternoon. Please assume sampling will take place on Friday, unless notified otherwise.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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## NRM2018233009 - Roelofs B 003 Excavation Sampling Notification 12/11/2020

**From:** Steven Moskal

**Sent:** Thursday, December 10, 2020 6:00 PM

**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Emmanuel Adeloje <[aadeloje@blm.gov](mailto:aadeloje@blm.gov)>

**Cc:** [nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com); Don Buller <[don.buller@ikavenergy.com](mailto:don.buller@ikavenergy.com)>; Dustin Mace <[dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)>

**Subject:** Roelofs B 003 Lab Results

All,

Attached is a site diagram of the current excavation. We recently received soil sample results from yesterday's sampling event. All samples passed, except for Sample 2 on the north half of the east sidewall, with a concentration of 52.13 ppm BTEX (cut off is 50 ppm BTEX). The area below regulatory action levels will be backfilled as material becomes available. The section of Sample 2 will be further advanced tomorrow morning. Sampling is currently scheduled for tomorrow at 1:30 PM.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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**SIMCOE LLC** (Formerly BPX Energy Inc.)

Well site: Roelofs B # 3

Incident #: NRM2018233009      API #: 30-045-08208  
 Unit M, Sec. 15, T29N, R08W      Federal Lease #: SF078415  
**Production Tank Release Field - Lab Results**

**Table 1**

MAP DESIGNATION # & SAMPLE ID	SAMPLE DATE	SAMPLE TIME	GRAB / COMPOSITE	FIELD OVM READING (ppm)	TPH - GRO (mg/Kg)	TPH - DRO (mg/Kg)	TPH - GRO+DRO (mg/Kg)	TPH - ORO (mg/Kg)	Total TPH (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl - benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
1 5PC - NSW (6'-18')	12/08/20	1357	5 pt. comp.	132	<25	<25	<25	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20
2 5PC - ESW (NE) (6'-18')	12/08/20	1433	5 pt. comp.	2,123	395	563	958	<50	958	0.0858	5.58	3.45	43.1	52.2158	<20
2A 5PC - ESW (NE) (6'-18')	12/11/20	1336	5 pt. comp.	2,362	69.2	184	253.2	<50	253.2	<0.0250	0.685	0.423	5.96	7.068	<20
3 5PC - ESW (SE) (5'-12')	12/08/20	1425	5 pt. comp.	505	<25	<25	<25	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20
4 5PC - SSW (5'-12')	12/08/20	1418	5 pt. comp.	120	<25	<25	<25	<50	<50	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20
5 5PC - WSW (SE) (5'-12')	12/08/20	1411	5 pt. comp.	1,734	117	237	354	<50	354	<0.0250	0.398	0.712	9.83	10.94	<20
6 5PC - WSW (NE) (6'-18')	12/08/20	1404	5 pt. comp.	1,793	242	356	598	<50	598	<0.0250	2.33	2.12	27.5	31.95	<20
7 5PC - EB (NE) @ 19'	12/08/20	1349	5 pt. comp.	382	<25	<25	<25	<50	<50	<0.0250	<0.0250	<0.0250	0.247	0.247	<20
8 5PC - EB (SE) @ 13'	12/08/20	1342	5 pt. comp.	2,230	59.8	143	202.8	<50	202.8	<0.0250	0.14	0.249	3.46	3.849	<20
NMOCD RELEASE CLOSURE STANDARDS -				-	-	-	1,000	-	2,500	10	-	-	-	50	20,000

Notes: OVM - Organic vapor meter or photo-ionization detector (PID).  
 TPH - Total petroleum hydrocarbons by US EPA Method 8015B.  
 GRO - Gasoline Range Organics  
 DRO - Diesel Range Organics  
 ORO - Oil Range Organics  
 BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.  
 ppm - Parts per million.  
 mg/Kg - Milligram per kilogram (mg/Kg).  
 NMOCD - New Mexico Oil Conservation Division.

12/08/20

OVM calibration reading = 99.6 ppm  
 @ time - 1030 ; Response Factor - 1.00  
 Calibration gas : 100 ppm Isobutylene

12/11/20

OVM calibration reading = 99.9 ppm  
 @ time - 1348 ; Response Factor - 1.00  
 Calibration gas : 100 ppm Isobutylene



**FIGURE 1**

2:27 PM

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**BPX - ROELOFS B 003**

(M) Section 15, T29N, R08W  
API #: 3004508208

Imagery date: 10/5/2016  
WH GPS Coord.: 36.720981,-107.669287

**Aerial View  
Site Map**

**Point of  
Release**

**300 ft. radius from  
Point of Release**

WH



200 ft

Google Earth

Released to Imaging: 5/10/2012 1:47:07 PM



**Aerial View  
Site Map**

12:25:27 PM

**FIGURE 2**

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**BPX - ROELOFS B 003**

(M) Section 15, T29N, R08W  
API #: 3004508208

Imagery date: 10/5/2016  
WH GPS Coord.: 36.720981,-107.669287

**Point of  
Release**

Google Earth

Released to Imaging: 5/10/2022 1:47:07 PM

WH

N

80 ft



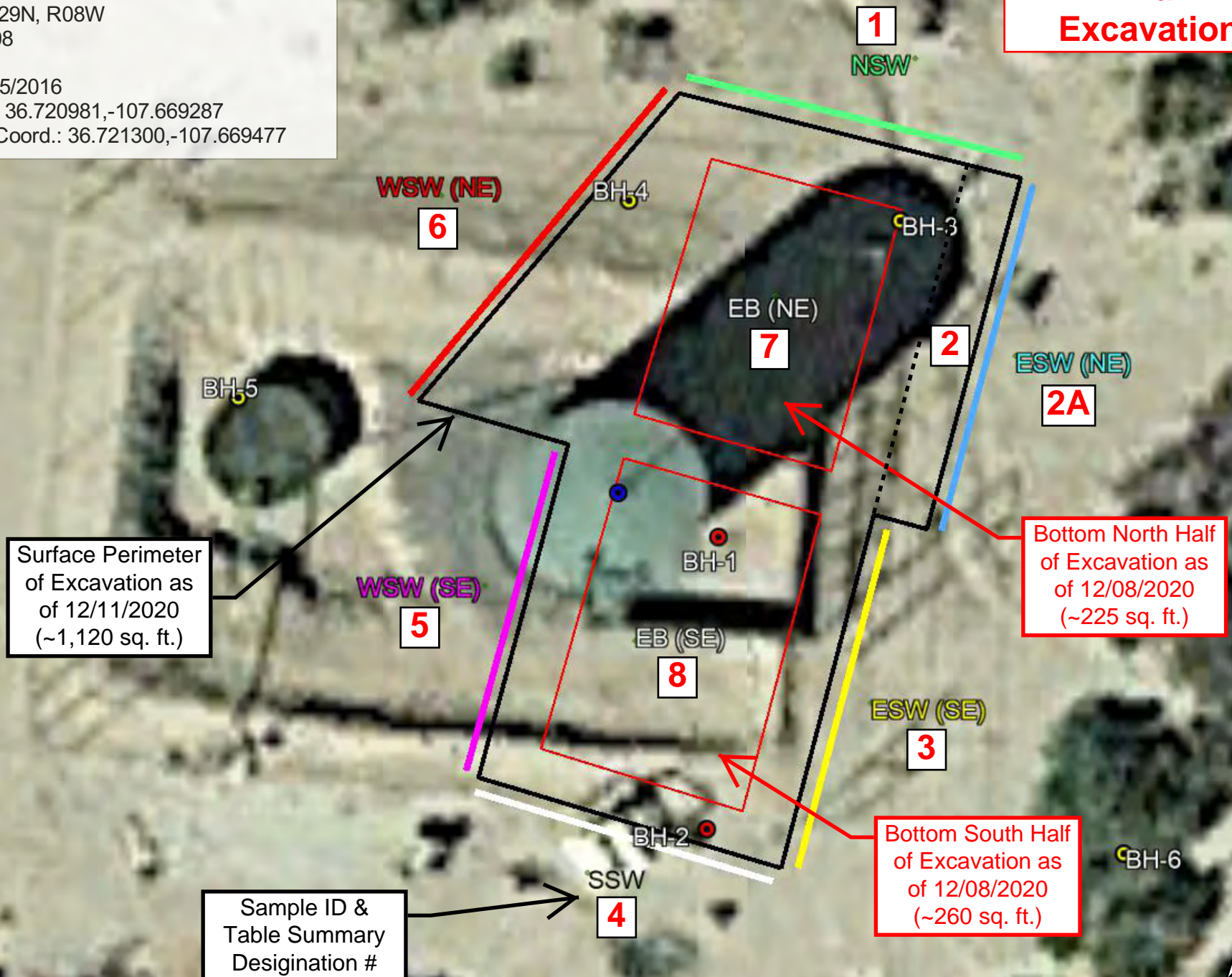
## BPX - ROELOFS B 003

(M) Section 15, T29N, R08W  
API #: 3004508208

Imagery date: 10/5/2016  
WH GPS Coord.: 36.720981,-107.669287  
Prod. Tank GPS Coord.: 36.721300,-107.669477

### FIGURE 3

**Remediation  
via  
Excavation**



# ROELOFS B 003 - PRODUCTION TANK RELEASE





# ROELOFS B 003 - PRODUCTION TANK RELEASE

SAMPLE 2A: EAST SIDEWALL [ESW (NE)] (6' - 18')

SAMPLE POINT  
DESIGNATION

X

X

X

X

X

SAMPLE DATE: 12/11/2020

# ROELOFS B 003 - PRODUCTION TANK RELEASE

SAMPLE 3: EAST SIDEWALL [ESW (SE)] (5' - 12')

SAMPLE POINT  
DESIGNATION

X

X

X

X

X

SAMPLE DATE: 12/08/2020

# ROELOFS B 003 - PRODUCTION TANK RELEASE





# ROELOFS B 003 - PRODUCTION TANK RELEASE

SAMPLE 5: WEST SIDEWALL [WSW (SE)] (5' - 12')

SAMPLE POINT  
DESIGNATION

X

X

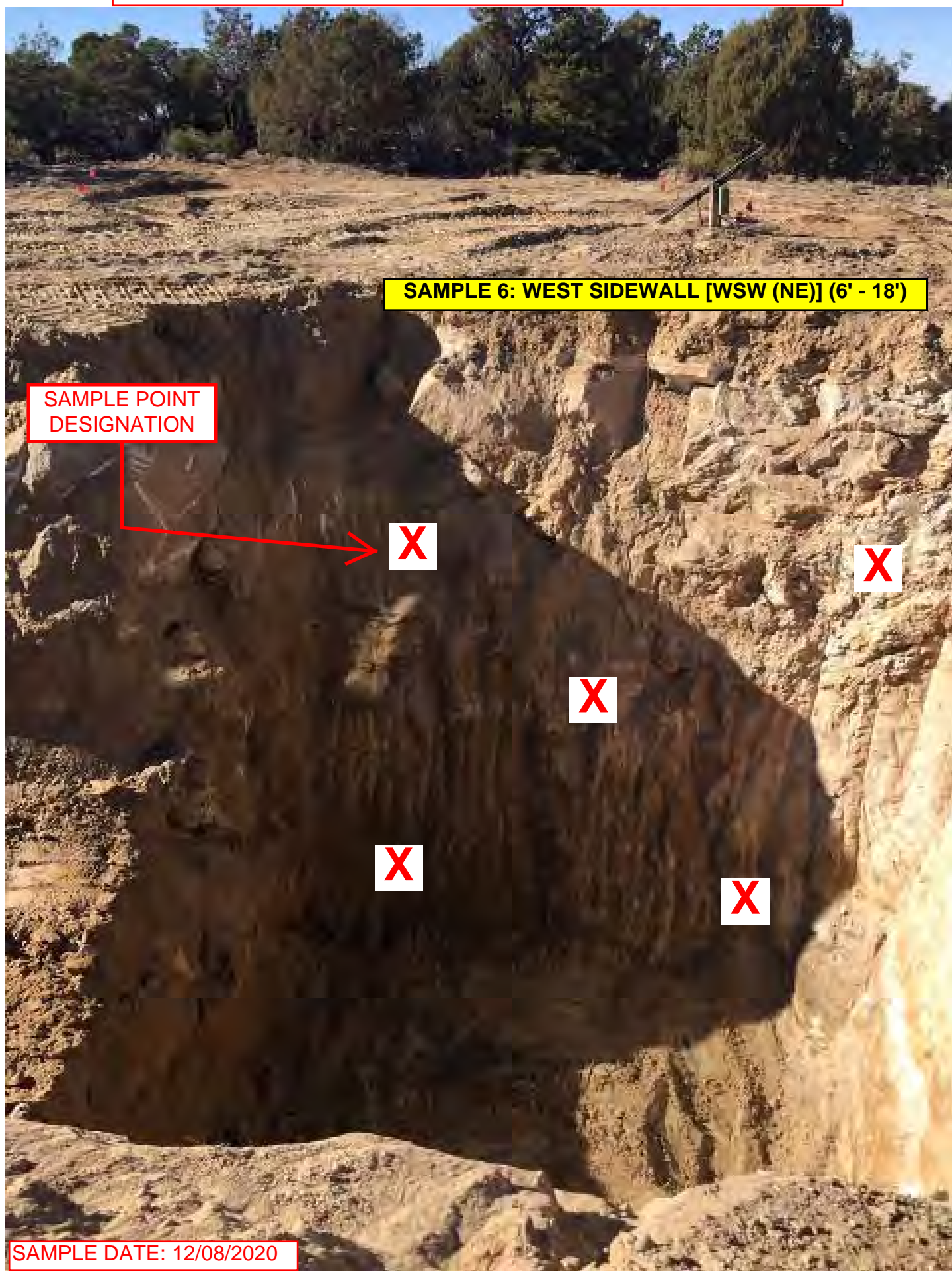
X

X

X

SAMPLE DATE: 12/08/2020

# ROELOFS B 003 - PRODUCTION TANK RELEASE



# ROELOFS B 003 - PRODUCTION TANK RELEASE

Received by OCD: 1/14/2021 2:25:27 PM

SAMPLE 7: EXCAVATION BOTTOM [EB (NE)] @ 19'

SAMPLE POINT  
DESIGNATION

X

X

X

X

X

SAMPLE DATE: 12/08/2020

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Released to Imaging: 5/10/2022 1:47:07 PM

# ROELOFS B 003 - PRODUCTION TANK RELEASE



## Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	<b>Reported:</b> 12/11/2020 1:58:37PM
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### 1 SPC - NSW (6'-18')

E012038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	ND	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	ND	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	ND	0.0500	1	12/10/20	12/10/20	
o-Xylene	ND	0.0250	1	12/10/20	12/10/20	
Total Xylenes	ND	0.0250	1	12/10/20	12/10/20	
Surrogate: 4-Bromochlorobenzene-PID	109 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/20	12/10/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
Surrogate: n-Nonane	85.5 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

## 2 5PC - ESW (NE) (6'-18')

E012038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	0.0858	0.0250	1	12/10/20	12/10/20	
Toluene	5.58	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	3.45	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	34.2	0.0500	1	12/10/20	12/10/20	
o-Xylene	8.93	0.0250	1	12/10/20	12/10/20	
Total Xylenes	43.1	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	133 %	70-130		12/10/20	12/10/20	SS
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	395	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	119 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	563	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
	179 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	





## Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	Reported: 12/15/2020 10:15:53AM
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## 2A 5PC - ESW (NE) (6'-18')

E012045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2050035	
Benzene	ND	0.0250	1	12/11/20	12/12/20	
Toluene	0.685	0.0250	1	12/11/20	12/12/20	
Ethylbenzene	0.423	0.0250	1	12/11/20	12/12/20	
p,m-Xylene	4.74	0.0500	1	12/11/20	12/12/20	
o-Xylene	1.21	0.0250	1	12/11/20	12/12/20	
Total Xylenes	5.96	0.0250	1	12/11/20	12/12/20	
Surrogate: 4-Bromochlorobenzene-PID	127 %	70-130		12/11/20	12/12/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2050035	
Gasoline Range Organics (C6-C10)	69.2	20.0	1	12/11/20	12/12/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		12/11/20	12/12/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2050036	
Diesel Range Organics (C10-C28)	184	25.0	1	12/11/20	12/12/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/11/20	12/12/20	
Surrogate: n-Nonane	142 %	50-200		12/11/20	12/12/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: NE		Batch: 2050037	
Chloride	ND	20.0	1	12/11/20	12/12/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

## 3 5PC - ESW (SE) (6'-18')

E012038-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	ND	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	ND	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	ND	0.0500	1	12/10/20	12/10/20	
o-Xylene	ND	0.0250	1	12/10/20	12/10/20	
Total Xylenes	ND	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.1 %	70-130	12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
		87.0 %	50-200	12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	





## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

## 4 5PC - SSW (7'-12')

## E012038-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	ND	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	ND	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	ND	0.0500	1	12/10/20	12/10/20	
o-Xylene	ND	0.0250	1	12/10/20	12/10/20	
Total Xylenes	ND	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	115 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
	90.5 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

## 5 5PC - WSW (SE) (7'-12')

E012038-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	0.398	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	0.712	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	7.77	0.0500	1	12/10/20	12/10/20	
o-Xylene	2.06	0.0250	1	12/10/20	12/10/20	
Total Xylenes	9.83	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	108 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	117	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	237	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

## 6 5PC - WSW (NE) (6'-18')

E012038-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	2.33	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	2.12	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	21.4	0.0500	1	12/10/20	12/10/20	
o-Xylene	6.13	0.0250	1	12/10/20	12/10/20	
Total Xylenes	27.5	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	115 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	242	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	356	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
	137 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

## 7 5PC - EB (NE) @ 19'

E012038-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	ND	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	ND	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	0.198	0.0500	1	12/10/20	12/10/20	
o-Xylene	0.0489	0.0250	1	12/10/20	12/10/20	
Total Xylenes	0.247	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	102 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.7 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
	86.5 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/11/2020 1:58:37PM

**8 SPC - EB (SE) @ 13'****E012038-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Benzene	ND	0.0250	1	12/10/20	12/10/20	
Toluene	<b>0.140</b>	0.0250	1	12/10/20	12/10/20	
Ethylbenzene	<b>0.249</b>	0.0250	1	12/10/20	12/10/20	
p,m-Xylene	<b>2.72</b>	0.0500	1	12/10/20	12/10/20	
o-Xylene	<b>0.744</b>	0.0250	1	12/10/20	12/10/20	
Total Xylenes	<b>3.46</b>	0.0250	1	12/10/20	12/10/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	104 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2050024	
Gasoline Range Organics (C6-C10)	<b>59.8</b>	20.0	1	12/10/20	12/10/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.0 %	70-130		12/10/20	12/10/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2050023	
Diesel Range Organics (C10-C28)	<b>143</b>	25.0	1	12/10/20	12/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/10/20	12/10/20	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		12/10/20	12/10/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2050026	
Chloride	ND	20.0	1	12/10/20	12/10/20	





## Project Information

## Chain of Custody

Client: <b>SIMCOE LLC</b> Project: <b>Roelofs B # 3</b> Project Manager: <b>Steve Moskal</b> Address: <b>1199 Main Ave., Suite 101</b> City, State, Zip: <b>Durango, CO 81301</b> Phone: <b>(505) 330-9179 - S. Moskal</b> Email: <b>See "additional instructions" below</b> Report due by: <b>December 10, 2020</b>					Bill To Attention: <b>IKAV Energy - S. Moskal</b> Address: <b>1199 Main Ave., Suite 101</b> City, State, Zip: <b>Durango, CO 81301</b> Phone: <b>(505) 330-9179 - S. Moskal</b> Email: <b>smoskal@ikavenergy.com</b>					Lab Use Only Lab WO# <b>E 018038</b> Job Number <b>200950001</b> Analysis and Method					TAT 1D 2D 3D			EPA Program CWA SDWA	
													RCRA						
													State						
													NM CO UT AZ TX						
													X						
													Remarks						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample						
1357	12/09/20	SOIL	1	1 5PC - NSW (6' - 18')	1	X	X	X		X		5		4 oz. jar					
1433	12/09/20	SOIL	1	2 5PC - ESW (NE) (6' - 18')	2	X	X	X		X		5		4 oz. jar					
1425	12/09/20	SOIL	1	3 5PC - ESW (SE) (6' - 18')	3	X	X	X		X		5		4 oz. jar					
1418	12/09/20	SOIL	1	4 5PC - SSW (7' - 12')	4	X	X	X		X		5		4 oz. jar					
1411	12/09/20	SOIL	1	5 5PC - WSW (SE) (7' - 12')	5	X	X	X		X		5		4 oz. jar					
1404	12/09/20	SOIL	1	6 5PC - WSW (NE) (6' - 18')	6	X	X	X		X		5		4 oz. jar					
1349	12/09/20	SOIL	1	7 5PC - EB (NE) @ 19'	7	X	X	X		X		5		4 oz. jar					
1342	12/09/20	SOIL	1	8 5PC - EB (SE) @ 13'	8	X	X	X		X		5		4 oz. jar					

**Additional Instructions:** Send emails to: smoskal@ikavenergy.com, edunman@ikavenergy.com, ksiesser@cottonwoodconsulting.com, jharter@cottonwoodconsulting.com, & nvelez@cottonwoodconsulting.com.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Nelson Velez (505) 320-3489

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other \_\_\_\_\_

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



[illegible]

# TREATED SOIL REMEDICATION



## Roelofs B 003 Lab Results 12/14/20

Steven Moskal <smoskal@ikavenergy.com>  
Mon 12/14/2020 3:12 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Emmanuel Adeleye <aadeleye@blm.gov>  
Cc: Nelson Velez; Don Buller <don.buller@ikavenergy.com>; Dustin Mace [dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)

All,

Attached are the recently received lab results, site diagram and summary table for the sampling conducted on the NE sidewall on Friday, 12/11/20. The results are below the site-specific remedial action levels and demonstrates full delineation of the release site. The excavation will be backfilled once treated material is satisfactory.

Sampling of treated stockpiles is scheduled for Thursday, 12/17/2020, at 1:30 PM.

Let me know if you have questions.

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**

1199 Main Ave Suite #101 | Durango CO 81301  
DIRECT: 505-330-9179 | [SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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**Roelofs B 003 Remed. Map 2020-12-11.pdf**  
**Roelofs B 003 Sumary Table 12.14.20.pdf**  
**E012045 Envirotech3\_v10 DRAFT 12 14 20 1432.pdf**

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Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
Tue 12/15/2020 4:07 PM

To: Steven Moskal <smoskal@ikavenergy.com>; Emmanuel Adeleye <aadeleye@blm.gov>  
Cc: Nelson Velez; Don Buller <don.buller@ikavenergy.com>; Dustin Mace [dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)

Steve,

Thank your for the notice for confirmation sampling at the Roelofs B 003 at 1:30PM on Thursday December 17<sup>th</sup>. If no OCD representative is onsite please sample per 19.15.29 NMAC or the approved sampling plan if there is one. If the date/time changes for the sampling event please contact OCD ASAP to communicate the changes etc.

Thank you,

**Cory Smith • Environmental Specialist**  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>

**Roelofs B 003 Treated Stockpile Lab Results 12/18/20**

**From:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Sent:** Friday, December 18, 2020 5:22 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Emmanuel Adeloje <[aadeloje@blm.gov](mailto:aadeloje@blm.gov)>  
**Cc:** [nvez@cottonwoodconsulting.com](mailto:nvez@cottonwoodconsulting.com); Don Buller <[don.buller@ikavenergy.com](mailto:don.buller@ikavenergy.com)>; Dustin Mace <[dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>; Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>

All,

Attached are the results of the treated stockpile sampling performed yesterday, 12/17/2020. All stockpiles were below NMOCD site ranking guidelines for total petroleum hydrocarbons and chloride, based on the attached laboratory analysis. All piles, with the exception of TSP-1 (50.08 ppm), TSP-2 (52.35 ppm), TSP-3 (69.52 ppm) and TSP-6 (50.89 ppm) were below NMOCD site ranking guidelines (50 ppm) for combined BTEX. The stockpiles failing for BTEX will be resampled on Tuesday, 12/22/2020, at 1:00 PM.

The stockpiles passing all NMOCD site ranking guidelines will be used as backfill.

Let me know if you have any questions or objections.

Thank you,

**Steve Moskal, ASP | Environmental Coordinator**  
**IKAV Energy Inc.**

1199 Main Ave Suite #101 | Durango CO 81301

DIRECT: 505-330-9179 | [SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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---

**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Monday, December 21, 2020 7:48:11 AM  
**To:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>; Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; Emmanuel Adeloje <[aadeloje@blm.gov](mailto:aadeloje@blm.gov)>  
**Cc:** [nvez@cottonwoodconsulting.com](mailto:nvez@cottonwoodconsulting.com) <[nvez@cottonwoodconsulting.com](mailto:nvez@cottonwoodconsulting.com)>; Don Buller <[don.buller@ikavenergy.com](mailto:don.buller@ikavenergy.com)>; Dustin Mace <[dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>; Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>  
**Subject:** RE: Roelofs B 003 Treated Stockpile Lab Results 12/18/20

Steve,

Thank you for the update, please don't forget that the top 4' needs to meet the most stringent standard for backfill. Which soils are going to be replaced at the top?

**Cory Smith • Environmental Specialist**  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us) | <http://www.emnrd.state.nm.us/OCD/>

**From:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>

**Sent:** Monday, December 21, 2020 11:14 AM

**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; Adeloye, Abiodun A <[aadeloye@blm.gov](mailto:aadeloye@blm.gov)>

**Cc:** [nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com) <[nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com)>; Don Buller <[don.buller@ikavenergy.com](mailto:don.buller@ikavenergy.com)>; Dustin Mace <[dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>; Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>

**Subject:** [EXTERNAL] Re: Roelofs B 003 Treated Stockpile Lab Results 12/18/20

Cory,

Thank you for the reminder. We are planning to retreat the piles today and will resample as scheduled tomorrow. From there we will determine which 100 yard pile will be used for surface cover of 4'.

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

---

**From:** Adeloye, Abiodun A <[aadeloye@blm.gov](mailto:aadeloye@blm.gov)>

**Sent:** Tuesday, December 22, 2020 8:52 AM

**To:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>; Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>

**Cc:** [nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com); Don Buller <[don.buller@ikavenergy.com](mailto:don.buller@ikavenergy.com)>; Dustin Mace <[dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>; Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>

**Subject:** Re: [EXTERNAL] Re: Roelofs B 003 Treated Stockpile Lab Results 12/18/20

Hi Steve, please proceed with sampling as recommended. I will not be there today to witness it.  
Thank you.

**Abiodun Adeloye (Emmanuel), EPS**  
*Bureau of Land Management*  
*Farmington Field Office*  
6251 College Blvd., Suite A  
Farmington, NM 87402  
Office Phone: 505-564-7665  
Cell Phone: 505-635-0984

## Roelofs B 003 Treated Stockpile Lab Results 12/23/20

Steven Moskal <smoskal@ikavenergy.com>

Wed 12/23/2020 1:07 PM

To: Adeloze, Abiodun A <aadeloze@blm.gov>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>  
Cc: Nelson Velez; Don Buller <don.buller@ikavenergy.com>; Dustin Mace <dustin@unlimitedconstructionus.com>; Jonathan Divine <jonathan.divine@ikavenergy.com>; Julie Best <julie.best@ikavenergy.com>; Joe Hernandez <joe.hernandez@ikavenergy.com>

All,

Attached are the results of the treated stockpile sampling performed yesterday, 12/22/2020. All stockpiles were below NMOCD site ranking guidelines for total petroleum hydrocarbons and chloride and total combined BTEX, based on the attached laboratory analysis.

The stockpiles failing for the upper 4' of cover, TS-3A, will be resampled today, per my discussion with Cory Smith over the phone, earlier today. I expect lab results Monday afternoon 12/28.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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**E012084 Envirotech3\_v10 DRAFT 12 23 20 0927.pdf**  
**Roelofs B 3 Treated Stockpile Sample Results 12.23.20.pdf**

## Roelofs B 003 Stockpile Sample Results

**From:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Sent:** Monday, December 28, 2020 10:27:02 AM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; Emmanuel Adeloyle <[aadeloyle@blm.gov](mailto:aadeloyle@blm.gov)>  
**Cc:** Don Buller <[don.buller@ikavenergy.com](mailto:don.buller@ikavenergy.com)>; Dustin Mace <[dustin@unlimitedconstructionus.com](mailto:dustin@unlimitedconstructionus.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>; Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>; [nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com) <[nvelez@cottonwoodconsulting.com](mailto:nvelez@cottonwoodconsulting.com)>

Cory and Emmanuel,

Attached are the results for the resample of the final 100 yards of treated soil. These results still exceed the stringent closure standard required for the upper 4' of cover. As an alternative, we elect to place this material on the remediation area and cap with, clean, imported material from a local materials pit.

Please let me know if there are any objections.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

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**E012096 Envirotech3\_v10 FINAL 12 24 20 1210.pdf**

**From:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Sent:** Monday, December 28, 2020 12:18 PM  
**To:** [g1smith@blm.gov](mailto:g1smith@blm.gov)  
**Cc:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Subject:** [EXT] Fwd: Roelofs B 003 Stockpile Sample Results

Gary,

I was just informed that Emmanuel is not active at the BLM. Please see my note below regarding the Roelofs B 3 soil shredding remediation site. Cory is currently out of the office, so I am awaiting a response from him.

Please contact me with any questions.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101  
Durango CO 81301  
DIRECT: 505-330-9179  
[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

---

**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Tuesday, December 29, 2020 10:14 AM  
**To:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>; [g1smith@blm.gov](mailto:g1smith@blm.gov)  
**Subject:** RE: Roelofs B 003 Stockpile Sample Results

Steve,

OCD is ok with using outside soils for a Cap so long the soils are like kind to the area and all remediated soils are below 4' and the cap does not protrude from the natural landscape etc to achieve the 4' depth.

The surface owner may have additional requirements for outside soil use.

Thanks,

**Cory Smith • Environmental Specialist**  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>

## Roelofs B 003 Stockpile Sample Results

**From:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Sent:** Tuesday, December 29, 2020 12:37 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>

Cory,

Upon further review of NMAC 19.15.29, it appears that final reclamation is not required in areas needed for production operations. Therefore, the applicability of [19.15.29.13](#) D. (1) does not apply until final reclamation since Simcoe plans to replace the tank in the same area of the remedial activity. The area has been compacted during backfill and will be stabilized with a tank berm:

### [19.15.29.13](#) RESTORATION, RECLAMATION AND RE-VEGETATION:

A. The responsible party must substantially restore the impacted surface areas to the condition that existed prior to the release or their final land use. Restoration of the site must include the replacement of removed material and must be replaced to the near original relative positions and contoured to achieve erosion control, long-term stability and preservation of surface water flow patterns.

B. Areas reasonably needed for production operations or for subsequent drilling operations must be compacted, covered, paved or otherwise stabilized and maintained in such a way as to minimize dust and erosion to the extent practical.

C. The responsible party must construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

D. **Reclamation of areas no longer in use.** The responsible party shall reclaim all areas disturbed by the remediation and closure, **except areas reasonably needed for production operations or for subsequent drilling operations**, as early and as nearly as practical to their original condition or their final land use and maintain those areas to control dust and minimize erosion to the extent practical.

(1) **The reclamation** must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

(2) The responsible party must reseed disturbed area in the first favorable growing season following closure of the site.

(3) The division will consider reclamation of all disturbed areas complete when uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds.

(4) For any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.

E. The surface restoration, reclamation and re-vegetation obligations imposed by federal or state agencies or tribes on lands managed or owned by those agencies supersede these provisions and govern the obligations of any responsible party subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.

[[19.15.29.13](#) NMAC - N, 8/14/2018]

Please let me know your thoughts.

**Steve Moskal, ASP | Environmental Coordinator**  
**IKAV Energy Inc.**

1199 Main Ave Suite #101 | Durango CO 81301

DIRECT: 505-330-9179 | [SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Tuesday, December 29, 2020 1:45 PM  
**To:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Cc:** Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>  
**Subject:** RE: Roelofs B 003 Stockpile Sample Results

Steve,

The area will be required to revegetated at P&A so if you would like to request a deferral for the revegetation portion you may, but the site must be completely delineated and the closure status will not be changed to closed until Simco submits a Closure report after revegetation has been completed.

**Cory Smith** • Environmental Specialist  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us) | <http://www.emnrd.state.nm.us/OCD/>

---

**From:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Sent:** Tuesday, December 29, 2020 1:51 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Cc:** Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>  
**Subject:** [EXT] RE: Roelofs B 003 Stockpile Sample Results

Cory – I believe we have met the delineation requirements with the excavation closure sampling. Please let me know if you have something else in mind.

Thank you for the direction.

**Steve Moskal, ASP | Environmental Coordinator**  
**IKAV Energy Inc.**  
1199 Main Ave Suite #101 | Durango CO 81301  
DIRECT: 505-330-9179 | [SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

---

**From:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>  
**Sent:** Tuesday, December 29, 2020 1:59:09 PM  
**To:** Steven Moskal <[smoskal@ikavenergy.com](mailto:smoskal@ikavenergy.com)>  
**Cc:** Julie Best <[julie.best@ikavenergy.com](mailto:julie.best@ikavenergy.com)>; Jonathan Divine <[jonathan.divine@ikavenergy.com](mailto:jonathan.divine@ikavenergy.com)>  
**Subject:** RE: Roelofs B 003 Stockpile Sample Results

Steve,

Yes you most likely have made the delineation requirements.. Just keep in mind that all of that soil at 4' will have to meet the requirements at P&A and the release will not be closed.

My advice would be to handle it now but, you may ask for a deferral in a remediation plan if you choose too.

**Cory Smith** • Environmental Specialist  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us) | <http://www.emnrd.state.nm.us/OCD/>



**SIMCOE LLC** (Formerly BPX Energy Inc.)

Well site: Roelofs B # 3

Incident #: NRM2018233009

API #: 30-045-08208

Unit M, Sec. 15, T29N, R08W

Federal Lease #: SF078415

**Production Tank Release - Treated Soils (~750 c.y.) & Vadose Zones Field / Lab Results****Table 2**

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	GRAB / COMPOSITE	FIELD OVM READING (ppm)	TPH - GRO (mg/Kg)	TPH - DRO (mg/Kg)	TPH - GRO+DRO (mg/Kg)	TPH - ORO (mg/Kg)	Total TPH (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl - benzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
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**Treated Soil Piles (TSP)**

<b>TSP - 1</b>	<b>12/17/20</b>	<b>1339</b>	<b>5 pt. comp.</b>	392	364	523	887	<50	887	0.0963	5.10	3.08	41.8	<b>50.08</b>	<20
<b>TSP - 1A</b>	<b>12/22/20</b>	<b>1302</b>	<b>5 pt. comp.</b>	1,451	408	453	861	<50	861	<0.0250	1.59	1.87	31.4	<b>34.86</b>	-
<b>TSP - 2</b>	<b>12/17/20</b>	<b>1336</b>	<b>5 pt. comp.</b>	1,341	362	460	822	<50	822	0.0787	4.81	3.16	44.3	<b>52.35</b>	<20
<b>TSP - 2A</b>	<b>12/22/20</b>	<b>1306</b>	<b>5 pt. comp.</b>	876	489	454	943	<50	943	<0.0250	2.51	2.39	40.6	<b>45.50</b>	-
<b>TSP - 3</b>	<b>12/17/20</b>	<b>1345</b>	<b>5 pt. comp.</b>	693	500	488	988	<50	988	<0.0250	6.24	4.38	58.9	<b>69.52</b>	<20
<b>TSP - 3A</b>	<b>12/22/20</b>	<b>1312</b>	<b>5 pt. comp.</b>	156	101	213	314	<50	314	<0.0250	0.25	0.349	6.29	<b>6.89</b>	-
<b>TSP - 3B</b>	<b>12/23/20</b>	<b>1210</b>	<b>5 pt. comp.</b>	-	167	405	572	<50	572	-	-	-	-	-	-
TSP - 4	12/17/20	1348	5 pt. comp.	1,180	282	353	635	<50	635	0.0602	3.51	2.33	32.0	37.90	<20
TSP - 5	12/17/20	1351	5 pt. comp.	1,406	296	438	734	<50	734	0.0642	3.82	2.41	32.4	38.69	<20
<b>TSP - 6</b>	<b>12/17/20</b>	<b>1356</b>	<b>5 pt. comp.</b>	1,394	356	432	788	<50	788	0.0919	5.29	3.21	42.3	<b>50.89</b>	<20
<b>TSP - 6A</b>	<b>12/22/20</b>	<b>1309</b>	<b>5 pt. comp.</b>	567	374	373	747	<50	747	<0.0250	1.23	1.67	28.3	<b>31.20</b>	-
TSP - 7	12/17/20	1400	5 pt. comp.	1,352	272	514	786	<50	786	0.0489	3.08	2.17	30.6	35.90	<20
TSP - 8	12/17/20	1353	3 pt. comp.	947	233	291	524	<50	524	0.0465	1.76	1.64	23.0	26.45	<20

**Vadose Zones (VZ)**

<b>VZ - 1</b>	01/05/21	1140	5 pt. comp.	47.3	24.2	113	137.2	57.0	194.2	<0.0250	0.0736	0.0453	0.915	<b>1.0339</b>	<20
<b>VZ - 2</b>	01/05/21	1145	5 pt. comp.	138.2	34.5	173	207.5	<50	207.5	<0.0250	0.0429	<0.0250	1.39	<b>1.4329</b>	<20

NMOCD RELEASE CLOSURE STANDARDS -

-	-	-	<b>1,000</b>	-	<b>2,500</b>	<b>10</b>	-	-	-	<b>50</b>	<b>600</b>
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Notes: OVM - Organic vapor meter or photo-ionization detector (PID).  
 TPH - Total petroleum hydrocarbons by US EPA Method 8015B.  
 GRO - Gasoline Range Organics  
 DRO - Diesel Range Organics  
 ORO - Oil Range Organics  
 BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.  
 ppm - Parts per million.  
 mg/Kg - Milligram per kilogram (mg/Kg).  
 NMOCD - New Mexico Oil Conservation Division.  
 (-) - Not analyzed.  
 c.y. - Cubic yards.

TSP - 8 Treated Soil Pile (TSP) approximately 50 cubic yards. All others approximately 100 cubic yards.  
 TSP - 3 (includes subsequent samples 3A & 3B) was initially planned to be used as the top 4 feet fill material of excavation.

12/15/20

OVM calibration reading = 99.9 ppm  
 @ time - 0917 ; Response Factor - 1.00  
 Calibration gas : 100 ppm Isobutylene

12/22/20

OVM calibration reading = 97.8 ppm  
 @ time - 1250 ; Response Factor - 1.00  
 Calibration gas : 100 ppm Isobutylene

01/05/21

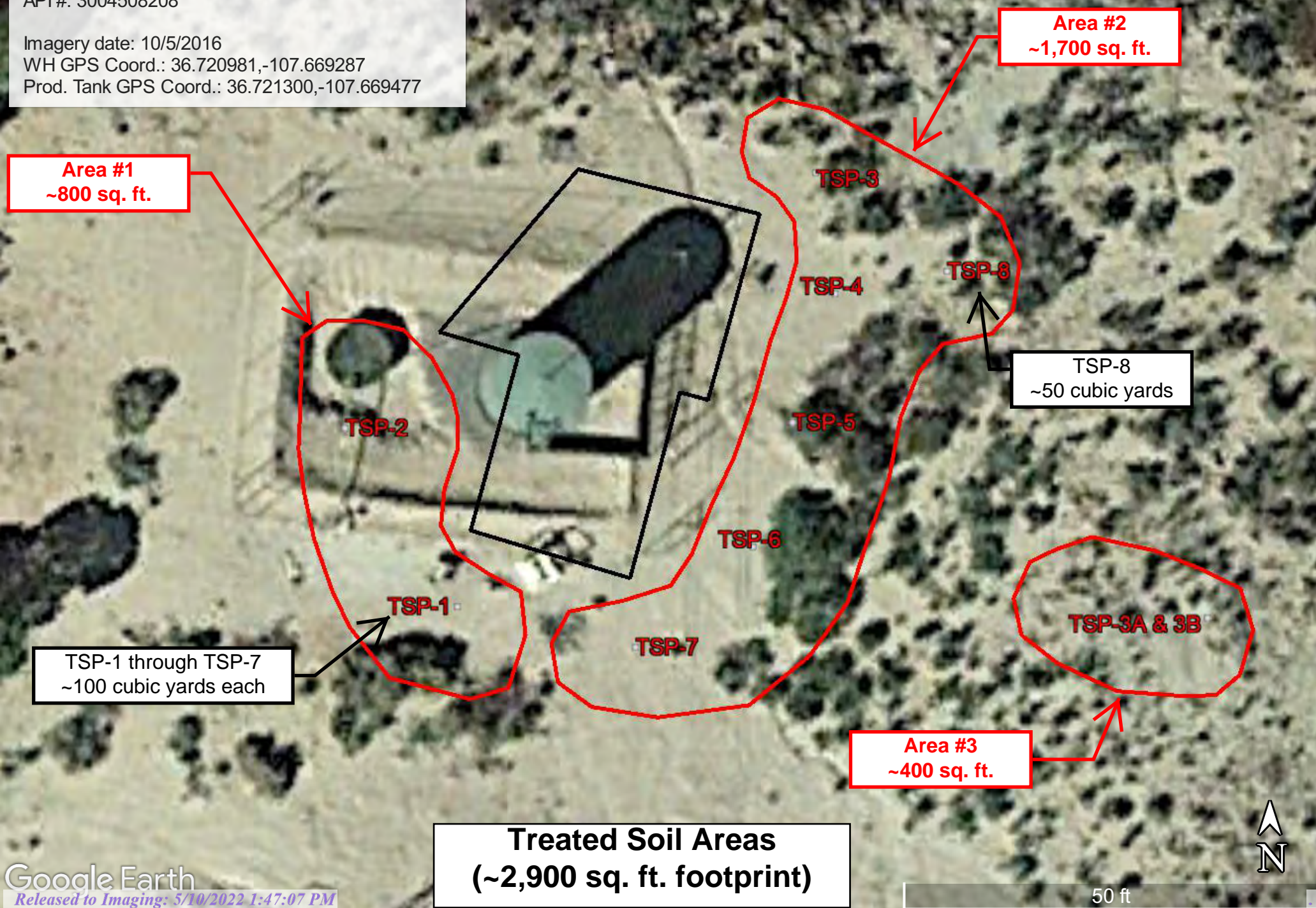
OVM calibration reading = 99.8 ppm  
 @ time - 1122 ; Response Factor - 1.00  
 Calibration gas : 100 ppm Isobutylene

# BPX - ROELOFS B 003

(M) Section 15, T29N, R08W  
API #: 3004508208

Imagery date: 10/5/2016  
WH GPS Coord.: 36.720981,-107.669287  
Prod. Tank GPS Coord.: 36.721300,-107.669477

## FIGURE 4





## Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	<b>Reported:</b> 12/21/2020 4:58:11PM
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## TSP-1

## E012063-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Benzene	0.0963	0.0250	1	12/17/20	12/18/20	
Toluene	5.10	0.0250	1	12/17/20	12/18/20	
Ethylbenzene	3.08	0.0250	1	12/17/20	12/18/20	
p,m-Xylene	33.1	0.0500	1	12/17/20	12/18/20	
o-Xylene	8.65	0.0250	1	12/17/20	12/18/20	
Total Xylenes	41.8	0.0250	1	12/17/20	12/18/20	
Surrogate: 4-Bromochlorobenzene-PID	119 %	70-130		12/17/20	12/18/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Gasoline Range Organics (C6-C10)	364	20.0	1	12/17/20	12/18/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	114 %	70-130		12/17/20	12/18/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2051036	
Diesel Range Organics (C10-C28)	523	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
Surrogate: n-Nonane	194 %	50-200		12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: NE		Batch: 2051032	
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	<b>Reported:</b> 12/24/2020 8:08:47AM
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## TSP - 1A

## E012084-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2052007	
Benzene	ND	0.250	10	12/22/20	12/22/20	
Toluene	1.59	0.250	10	12/22/20	12/22/20	
Ethylbenzene	1.87	0.250	10	12/22/20	12/22/20	
p,m-Xylene	24.6	0.500	10	12/22/20	12/22/20	
o-Xylene	6.77	0.250	10	12/22/20	12/22/20	
Total Xylenes	31.4	0.250	10	12/22/20	12/22/20	
Surrogate: 4-Bromochlorobenzene-PID	105 %	70-130		12/22/20	12/22/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2052007	
Gasoline Range Organics (C6-C10)	408	200	10	12/22/20	12/22/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.7 %	70-130		12/22/20	12/22/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2052006	
Diesel Range Organics (C10-C28)	453	25.0	1	12/22/20	12/22/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/22/20	12/22/20	
Surrogate: n-Nonane	154 %	50-200		12/22/20	12/22/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-2

## E012063-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Benzene	0.0557	0.0500	2	12/17/20	12/18/20	
Toluene	3.71	0.0500	2	12/17/20	12/18/20	
Ethylbenzene	3.24	0.0500	2	12/17/20	12/18/20	
p,m-Xylene	36.4	0.100	2	12/17/20	12/18/20	
o-Xylene	9.03	0.0500	2	12/17/20	12/18/20	
Total Xylenes	45.4	0.0500	2	12/17/20	12/18/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	110 %	70-130		12/17/20	12/18/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Gasoline Range Organics (C6-C10)	392	40.0	2	12/17/20	12/18/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.2 %	70-130		12/17/20	12/18/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2051036	
Diesel Range Organics (C10-C28)	460	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
	180 %	50-200		12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2051032	
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/24/2020 8:08:47AM

## TSP - 2A

## E012084-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2052007
Benzene	ND	0.250	10	12/22/20	12/22/20	
Toluene	2.51	0.250	10	12/22/20	12/22/20	
Ethylbenzene	2.39	0.250	10	12/22/20	12/22/20	
p,m-Xylene	31.9	0.500	10	12/22/20	12/22/20	
o-Xylene	8.65	0.250	10	12/22/20	12/22/20	
Total Xylenes	40.6	0.250	10	12/22/20	12/22/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	12/22/20	12/22/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2052007
Gasoline Range Organics (C6-C10)	489	200	10	12/22/20	12/22/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	12/22/20	12/22/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: JL		Batch: 2052006
Diesel Range Organics (C10-C28)	454	25.0	1	12/22/20	12/22/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/22/20	12/22/20	
<i>Surrogate: n-Nonane</i>		153 %	50-200	12/22/20	12/22/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-3

## E012063-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Benzene	ND	0.125	5	12/17/20	12/18/20	
Toluene	6.24	0.125	5	12/17/20	12/18/20	
Ethylbenzene	4.38	0.125	5	12/17/20	12/18/20	
p,m-Xylene	45.9	0.250	5	12/17/20	12/18/20	
o-Xylene	13.0	0.125	5	12/17/20	12/18/20	
Total Xylenes	58.9	0.125	5	12/17/20	12/18/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	102 %	70-130		12/17/20	12/18/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Gasoline Range Organics (C6-C10)	500	100	5	12/17/20	12/18/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		12/17/20	12/18/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2051036	
Diesel Range Organics (C10-C28)	488	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
	195 %	50-200		12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2051032	
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/24/2020 8:08:47AM

## TSP - 3A

## E012084-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2052007
Benzene	ND	0.0500	2	12/22/20	12/23/20	
Toluene	<b>0.250</b>	0.0500	2	12/22/20	12/23/20	
Ethylbenzene	<b>0.349</b>	0.0500	2	12/22/20	12/23/20	
p,m-Xylene	<b>4.94</b>	0.100	2	12/22/20	12/23/20	
o-Xylene	<b>1.35</b>	0.0500	2	12/22/20	12/23/20	
Total Xylenes	<b>6.29</b>	0.0500	2	12/22/20	12/23/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	12/22/20	12/23/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2052007
Gasoline Range Organics (C6-C10)	<b>101</b>	40.0	2	12/22/20	12/23/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	12/22/20	12/23/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: JL		Batch: 2052006
Diesel Range Organics (C10-C28)	<b>213</b>	25.0	1	12/22/20	12/22/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/22/20	12/22/20	
<i>Surrogate: n-Nonane</i>		92.7 %	50-200	12/22/20	12/22/20	





## Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B 003 Project Number: 20095-0001 Project Manager: Steve Moskal	<b>Reported:</b> 12/24/2020 12:10:08PM
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### TS-3B

#### E012096-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2052019
Gasoline Range Organics (C6-C10)	<b>167</b>	20.0	1	12/23/20	12/23/20	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		12/23/20	12/23/20	
Surrogate: Toluene-d8	111 %	70-130		12/23/20	12/23/20	
Surrogate: Bromofluorobenzene	91.7 %	70-130		12/23/20	12/23/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2052014
Diesel Range Organics (C10-C28)	<b>405</b>	25.0	1	12/23/20	12/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/23/20	12/23/20	
Surrogate: n-Nonane	156 %	50-200		12/23/20	12/23/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-4

## E012063-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Benzene	ND	0.250	10	12/17/20	12/21/20	
Toluene	3.24	0.250	10	12/17/20	12/21/20	
Ethylbenzene	2.32	0.250	10	12/17/20	12/21/20	
p,m-Xylene	26.7	0.500	10	12/17/20	12/21/20	
o-Xylene	7.33	0.250	10	12/17/20	12/21/20	
Total Xylenes	34.0	0.250	10	12/17/20	12/21/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	105 %	70-130		12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Gasoline Range Organics (C6-C10)	396	200	10	12/17/20	12/21/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2051036	
Diesel Range Organics (C10-C28)	353	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
	155 %	50-200		12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2051032	
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-5

## E012063-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Benzene	ND	0.250	10	12/17/20	12/21/20	
Toluene	3.79	0.250	10	12/17/20	12/21/20	
Ethylbenzene	2.52	0.250	10	12/17/20	12/21/20	
p,m-Xylene	28.8	0.500	10	12/17/20	12/21/20	
o-Xylene	7.82	0.250	10	12/17/20	12/21/20	
Total Xylenes	36.7	0.250	10	12/17/20	12/21/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	106 %	70-130		12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Gasoline Range Organics (C6-C10)	432	200	10	12/17/20	12/21/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2051036	
Diesel Range Organics (C10-C28)	438	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
	168 %	50-200		12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2051032	
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-6

## E012063-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2051031
Benzene	ND	0.250	10	12/17/20	12/21/20	
Toluene	5.24	0.250	10	12/17/20	12/21/20	
Ethylbenzene	3.31	0.250	10	12/17/20	12/21/20	
p,m-Xylene	37.6	0.500	10	12/17/20	12/21/20	
o-Xylene	9.97	0.250	10	12/17/20	12/21/20	
Total Xylenes	47.6	0.250	10	12/17/20	12/21/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2051031
Gasoline Range Organics (C6-C10)	513	200	10	12/17/20	12/21/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2051036
Diesel Range Organics (C10-C28)	432	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
		165 %	50-200	12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: NE		Batch: 2051032
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/24/2020 8:08:47AM

## TSP - 6A

E012084-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2052007
Benzene	ND	0.250	10	12/22/20	12/22/20	
Toluene	1.23	0.250	10	12/22/20	12/22/20	
Ethylbenzene	1.67	0.250	10	12/22/20	12/22/20	
p,m-Xylene	22.2	0.500	10	12/22/20	12/22/20	
o-Xylene	6.11	0.250	10	12/22/20	12/22/20	
Total Xylenes	28.3	0.250	10	12/22/20	12/22/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	12/22/20	12/22/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2052007
Gasoline Range Organics (C6-C10)	374	200	10	12/22/20	12/22/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	12/22/20	12/22/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: JL		Batch: 2052006
Diesel Range Organics (C10-C28)	373	25.0	1	12/22/20	12/22/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/22/20	12/22/20	
<i>Surrogate: n-Nonane</i>		147 %	50-200	12/22/20	12/22/20	





## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-7

## E012063-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2051031
Benzene	ND	0.250	10	12/17/20	12/21/20	
Toluene	3.57	0.250	10	12/17/20	12/21/20	
Ethylbenzene	2.51	0.250	10	12/17/20	12/21/20	
p,m-Xylene	30.2	0.500	10	12/17/20	12/21/20	
o-Xylene	8.21	0.250	10	12/17/20	12/21/20	
Total Xylenes	38.4	0.250	10	12/17/20	12/21/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2051031
Gasoline Range Organics (C6-C10)	470	200	10	12/17/20	12/21/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2051036
Diesel Range Organics (C10-C28)	514	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
		175 %	50-200	12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: NE		Batch: 2051032
Chloride	ND	20.0	1	12/17/20	12/17/20	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
12/21/2020 4:58:11PM

## TSP-8

## E012063-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Benzene	ND	0.250	10	12/17/20	12/21/20	
Toluene	1.66	0.250	10	12/17/20	12/21/20	
Ethylbenzene	1.70	0.250	10	12/17/20	12/21/20	
p,m-Xylene	20.2	0.500	10	12/17/20	12/21/20	
o-Xylene	5.59	0.250	10	12/17/20	12/21/20	
Total Xylenes	25.8	0.250	10	12/17/20	12/21/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	106 %	70-130		12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2051031	
Gasoline Range Organics (C6-C10)	332	200	10	12/17/20	12/21/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		12/17/20	12/21/20	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2051036	
Diesel Range Organics (C10-C28)	291	25.0	1	12/18/20	12/18/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/18/20	12/18/20	
<i>Surrogate: n-Nonane</i>						
	149 %	50-200		12/18/20	12/18/20	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2051032	
Chloride	ND	20.0	1	12/17/20	12/18/20	



## Project Information

## Chain of Custody

Page 1 of 1

Client: <u>SIMCOE LLC</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>ROELOFS B #3</u>		Attention: <u>KAU ENERGY S. MOSKAL</u>		Lab WO# <u>E 012063</u>		Job Number <u>20095-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>STEVE MOSKAL</u>		Address: <u>1199 MAIN AVE. SUITE 101</u>		City, State, Zip: <u>DURANGO, CO 81301</u>		Analysis and Method						RCRA	
Address: <u>1199 MAIN AVE. SUITE 101</u>		Phone: <u>(505) 330-9179</u>		Email: <u>SMOSKALC@KAU-ENERGY.COM</u>									
City, State, Zip: <u>DURANGO, CO 81301</u>													
Phone: <u>(505) 330-9179</u>													
Email: <u>SMOSKALC@KAU-ENERGY.COM</u>													
Report due by: <u>DEC. 18, 2020</u>													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	1D	2D	3D	Standard	State	Remarks
1339	12/17/20	SOIL	1	TSP - 1	1	X	X	X		X						5	4 oz. JAR
1336	"	"	1	TSP - 2	2	X	X	X		X						5	" "
1345	"	"	1	TSP - 3	3	X	X	X		X						5	" "
1348	"	"	1	TSP - 4	4	X	X	X		X						5	" "
1351	"	"	1	TSP - 5	5	X	X	X		X						5	" "
1356	"	"	1	TSP - 6	6	X	X	X		X						5	" "
1400	"	"	1	TSP - 7	7	X	X	X		X						5	" "
1353	"	"	1	TSP - 8	8	X	X	X		X						3	" "

Additional Instructions: SEND EMAILS TO: STEVE MOSKAL, ERIN OUDMAN, KYLE SISSER, JAKE HARTER, NELSON VELEZ

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	12/17/20	15:45	<i>[Signature]</i>	12/17/20	15:45	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

Sample Matrix: S - Soil, Sl - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Client: <b>SIMCOE LLC</b>	<b>Bill To</b> Attention: <b>IKAV Energy - S. Moskal</b> Address: <b>1199 Main Ave., Suite 101</b> City, State, Zip <b>Durango, CO 81301</b> Phone: <b>(505) 330-9179 - S. Moskal</b> Email: <b>smoskal@ikavenergy.com</b>	Lab Use Only		TAT				EPA Program		
Project: <b>Roelofs B # 3</b>		Lab WO# <b>E012084</b>	Job Number <b>20095-0001</b>	1D	2D	3D	Standard	CWA	SDWA	
Project Manager: <b>Steve Moskal</b>		Analysis and Method								
Address: <b>1199 Main Ave., Suite 101</b>		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample	State
City, State, Zip <b>Durango, CO 81301</b>										NM CO UT AZ TX
Phone: <b>(505) 330-9179 - S. Moskal</b>										
Email: <b>See "additional instructions" below</b>										
Report due by: <b>December 23, 2020</b>										

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample	Remarks
1302	12/22/20	SOIL	1	TSP - 1A	1	X	X	X				5		4 oz. jar
1306	12/22/20	SOIL	1	TSP - 2A	2	X	X	X				5		4 oz. jar
1312	12/22/20	SOIL	1	TSP - 3A	3	X	X	X				5		4 oz. jar
1309	12/22/20	SOIL	1	TSP - 6A	4	X	X	X				5		4 oz. jar

**Additional Instructions:** Send emails to: smoskal@ikavenergy.com, edunman@ikavenergy.com, ksiesser@cottonwoodconsulting.com, jharter@cottonwoodconsulting.com, & nvelez@cottonwoodconsulting.com.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Sampled by: Nelson Velez (505) 320-3489											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only					
<i>[Signature]</i>	12/22/20	14:44	<i>Raina Schwanz</i>	12/22/20	14:46	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>					
Sample Matrix: <u>S - Soil</u> , Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: <u>g - glass</u> , p - poly/plastic, ag - amber glass, v - VOA					

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Chain of Custody

### Same Day

Client: <u>Simcoe LHC</u> Project: <u>Roelofs B 003</u> Project Manager: <u>Steve Morkal</u> Address: <u>1199 Main St Ste 101</u> City, State, Zip: <u>Durham CO 81301</u> Phone: <u>505 330 9179</u> Email: <u>smorkal@IKAVenergy.com</u> Report due by: <u>ASAP</u>				<b>Bill To</b> Attention: <u>IKAV Energy</u> Address: <u>same</u> City, State, Zip: _____ Phone: <u>same</u> Email: <u>same</u>				<b>Lab Use Only</b> Lab WO# <u>E0120916</u> Job Number <u>200950001</u> 1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> TAT _____ Analysis and Method _____ DRO/ORO by 8015 <input checked="" type="checkbox"/> GRO/DRO by 8015 <input checked="" type="checkbox"/> BTEX by 8024 <input type="checkbox"/> VOC by 8260 <input type="checkbox"/> Metals 6010 <input type="checkbox"/> Chloride 3000 <input type="checkbox"/>				<b>EPA Program</b> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/> State _____ NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks									
1:10pm	12/23/20	soil	1-4oz	TS-3B	1										

**Additional Instructions:** ASAP results

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  
 Relinquished by: (Signature) [Signature]    Date 12/23/20    Time 14:07  
 Relinquished by: (Signature) \_\_\_\_\_    Date \_\_\_\_\_    Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_    Date \_\_\_\_\_    Time \_\_\_\_\_

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  
 Received on ice: Y (N)  
 T1 8.5    T2 8.6    T3 10.1  
 AVG Temp °C 9.06

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other S  
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA  
 Relinquished by: (Signature) Rina Schwany    Date 12/30/20    Time 14:07  
 Relinquished by: (Signature) \_\_\_\_\_    Date \_\_\_\_\_    Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_    Date \_\_\_\_\_    Time \_\_\_\_\_



**envirotech**



# VADOSE ZONE CONFIRMATION

## **NRM2018233009 - Vadose Zone Sampling Notification - Roelofs B 003**

Steven Moskal <smoskal@ikavenergy.com>

Thu 12/31/2020 4:41 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; g1smith@blm.gov

Cc: Nelson Velez

Simcoe plans to execute vadose zone sampling, following the completion of excavation and soil shredding activities at the subject site on Tuesday, 1/5/21, at 10:00 AM. Based on previous project with similar scopes, we propose collecting two (2) 5-point composite samples from the 3 identified locations (total area ~ 2,900 sq. ft.).

Please let me know if there are any objections.

Thank you,

**Steve Moskal, ASP**  
**Environmental Coordinator**  
**IKAV Energy Inc.**

1199 Main Ave Suite #101

Durango CO 81301

DIRECT: 505-330-9179

[SMoskal@IKAVENERGY.COM](mailto:SMoskal@IKAVENERGY.COM)

Confidentiality notice:

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**Roelofs B #3 TSP Map.pdf**



# BPX - ROELOFS B 003

(M) Section 15, T29N, R08W  
API #: 3004508208

Imagery date: 10/5/2016  
WH GPS Coord.: 36.720981,-107.669287  
Prod. Tank GPS Coord.: 36.721300,-107.669477

## FIGURE 5

Sample Point  
Designation

VZ - 2  
5-point composite

VZ - 1  
5-point composite

01/05/2021

Treated Soil Piles  
Vadose Zone Sampling

WH

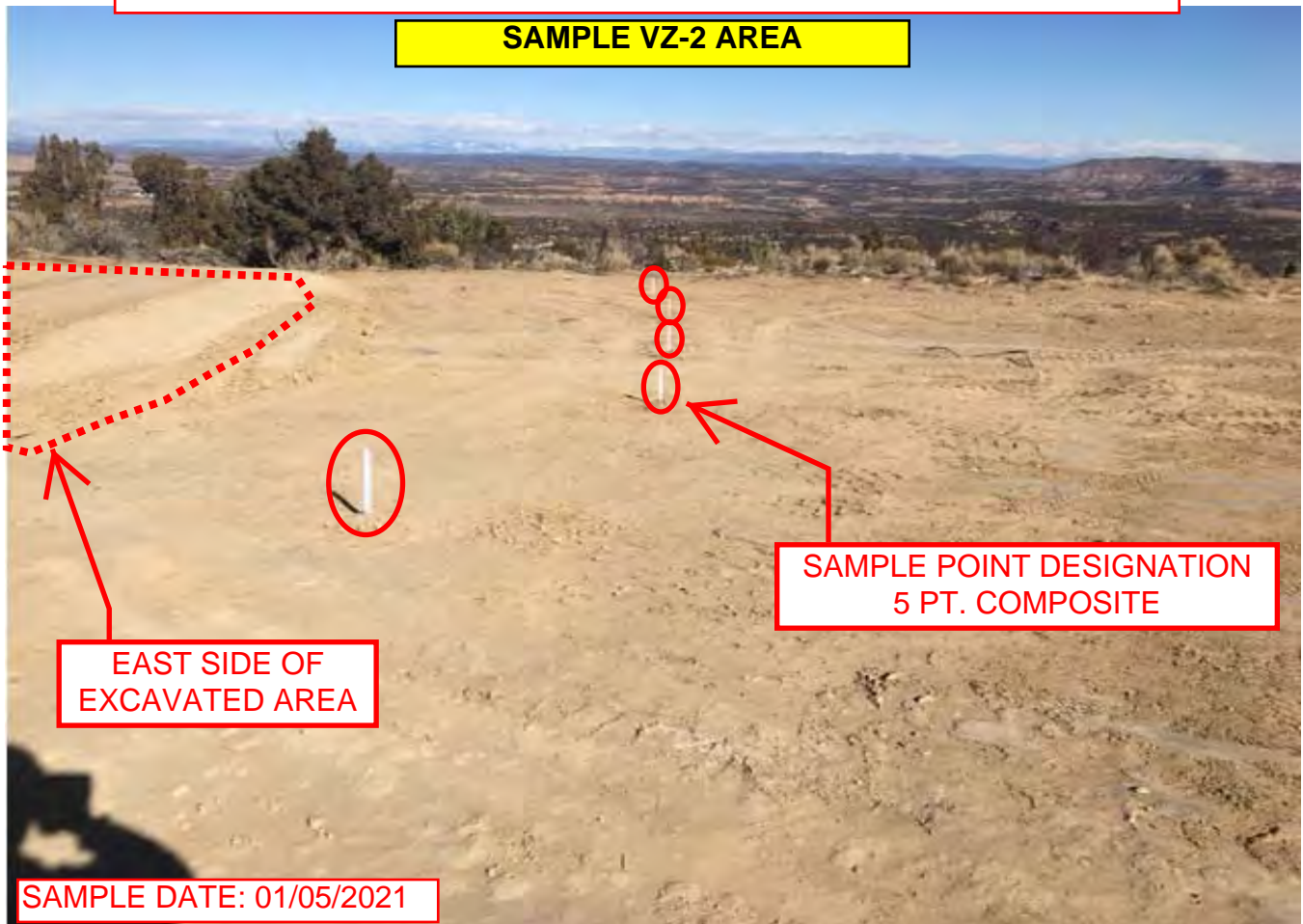
N

90 ft





**ROELOFS B 003 - VADOSE ZONE SAMPLING**





**SAMPLE VZ-1: EAST SIDE AREA**

SAMPLE POINT DESIGNATION  
5 PT. COMPOSITE (2 OF 5)

SAMPLE DATE: 01/05/2021

**SAMPLE VZ-1: WEST SIDE AREA**

SAMPLE POINT DESIGNATION  
5 PT. COMPOSITE (3 OF 5)

WEST SIDE OF  
EXCAVATED AREA

SAMPLE DATE: 01/05/2021



## Sample Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	Reported: 1/11/2021 8:46:53AM
---	--	----------------------------------

## VZ-1

## E101004-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2102008	
Benzene	ND	0.0250	1	01/05/21	01/05/21	
Toluene	0.0736	0.0250	1	01/05/21	01/05/21	
Ethylbenzene	0.0453	0.0250	1	01/05/21	01/05/21	
p,m-Xylene	0.686	0.0500	1	01/05/21	01/05/21	
o-Xylene	0.229	0.0250	1	01/05/21	01/05/21	
Total Xylenes	0.915	0.0250	1	01/05/21	01/05/21	
Surrogate: 4-Bromochlorobenzene-PID	108 %	70-130		01/05/21	01/05/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2102008	
Gasoline Range Organics (C6-C10)	24.2	20.0	1	01/05/21	01/05/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		01/05/21	01/05/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2102015	
Diesel Range Organics (C10-C28)	113	25.0	1	01/05/21	01/05/21	
Oil Range Organics (C28-C35)	57.0	50.0	1	01/05/21	01/05/21	
Surrogate: n-Nonane	105 %	50-200		01/05/21	01/05/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: NE		Batch: 2102021	
Chloride	ND	20.0	1	01/07/21	01/07/21	



## Sample Data

SIMCOE LLC  
1199 Main Ave. Suite 242  
Durango CO, 81301

Project Name: Roelofs B # 3  
Project Number: 20095-0001  
Project Manager: Steve Moskal

**Reported:**  
1/11/2021 8:46:53AM

## VZ-2

## E101004-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2102008	
Benzene	ND	0.0250	1	01/05/21	01/05/21	
Toluene	<b>0.0429</b>	0.0250	1	01/05/21	01/05/21	
Ethylbenzene	ND	0.0250	1	01/05/21	01/05/21	
p,m-Xylene	<b>1.05</b>	0.0500	1	01/05/21	01/05/21	
o-Xylene	<b>0.337</b>	0.0250	1	01/05/21	01/05/21	
Total Xylenes	<b>1.39</b>	0.0250	1	01/05/21	01/05/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	01/05/21	01/05/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2102008	
Gasoline Range Organics (C6-C10)	<b>34.5</b>	20.0	1	01/05/21	01/05/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.9 %	70-130	01/05/21	01/05/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2102015	
Diesel Range Organics (C10-C28)	<b>173</b>	25.0	1	01/05/21	01/05/21	
Oil Range Organics (C28-C35)	ND	50.0	1	01/05/21	01/05/21	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	01/05/21	01/05/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: NE		Batch: 2102021	
Chloride	ND	20.0	1	01/07/21	01/07/21	



Project Information

Chain of Custody

Client: <b>SIMCOE LLC</b> Project: <b>Roelofs B # 3</b> Project Manager: <b>Steve Moskal</b> Address: <b>1199 Main Ave., Suite 101</b> City, State, Zip <b>Durango, CO 81301</b> Phone: <b>(505) 330-9179 - S. Moskal</b> Email: <b>See "additional instructions" below</b> Report due by: <b>Standard TAT</b>		<b>Bill To</b> Attention: <b>IKAV Energy - S. Moskal</b> Address: <b>1199 Main Ave., Suite 101</b> City, State, Zip <b>Durango, CO 81301</b> Phone: <b>(505) 330-9179 - S. Moskal</b> Email: <b>smoskal@ikavenergy.com</b>		<b>Lab Use Only</b> Lab WO# <b>E101004</b> Job Number <b>200950001</b>		<b>TAT</b> 1D 2D 3D Standard <b>X</b>		<b>EPA Program</b> CWA SDWA	
				<b>Analysis and Method</b>				RCRA	
				DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0		# composite pts. grab sample		State NM CO UT AZ TX	
								Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample	Remarks
1140	12/22/20	SOIL	1	VZ - 1	1	X	X	X			X	5		4 oz. jar
1145	12/22/20	SOIL	1	VZ - 2	2	X	X	X			X	5		4 oz. jar

**Additional Instructions:** Send emails to: smoskal@ikavenergy.com, edunman@ikavenergy.com, nvelez@cottonwoodconsulting.com.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature) <i>[Signature]</i> Date <b>1/5/21</b> Time <b>1242</b>						Received by: (Signature) <i>[Signature]</i> Date <b>1/5/21</b> Time <b>12:42</b>					
Relinquished by: (Signature) _____ Date _____ Time _____						Received by: (Signature) _____ Date _____ Time _____					
Relinquished by: (Signature) _____ Date _____ Time _____						Received by: (Signature) _____ Date _____ Time _____					
Sample Matrix: <b>S - Soil</b> , Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: <b>g - glass</b> , p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



## Project Information

## Chain of Custody

Page 1 of 1

Client: **SIMCOE LLC**  
 Project: **Roelofs B # 3**  
 Project Manager: **Steve Moskal**  
 Address: **1199 Main Ave., Suite 101**  
 City, State, Zip **Durango, CO 81301**  
 Phone: **(505) 330-9179 - S. Moskal**  
 Email: See "additional instructions" below  
 Report due by: **Standard TAT**

**Bill To**  
 Attention: **IKAV Energy - S. Moskal**  
 Address: **1199 Main Ave., Suite 101**  
 City, State, Zip **Durango, CO 81301**  
 Phone: **(505) 330-9179 - S. Moskal**  
 Email: **smoskal@ikavenergy.com**

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<b>E101004</b>	<b>20095-0001</b>				<b>X</b>		
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		
						State	
						NM	CO
						UT	AZ
						TX	
						Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample	Remarks
1140	<del>12/22/20</del> 01/05/21	SOIL	1	VZ - 1	1	X	X	X			X	5		4 oz. jar
1145	<del>12/22/20</del> 01/05/21	SOIL	1	VZ - 2	2	X	X	X			X	5		4 oz. jar
	AM 1/5/21													

**Additional Instructions:** Send emails to: smoskal@ikavenergy.com, edunman@ikavenergy.com, nvelez@cottonwoodconsulting.com.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
Sampled by: <b>Nelson Velez</b> (505) 320-3489							
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only	
<i>[Signature]</i>	1/5/21	1242	<i>Raina Schuang</i>	1/5/21	12:42	Received on ice: <b>(Y) N</b>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <b>4</b>	
Sample Matrix: <b>S</b> - Soil, <b>Sd</b> - Solid, <b>Sg</b> - Sludge, <b>A</b> - Aqueous, <b>O</b> - Other _____						Container Type: <b>g</b> - glass, <b>p</b> - poly/plastic, <b>ag</b> - amber glass, <b>v</b> - VOA	
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.							



# LABORATORY

# QUALITY ASSURANCE /

# QUALITY CONTROL



Report to:  
Steve Moskal



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

SIMCOE LLC

Project Name: Roelofs B # 3

Work Order: E012038

Job Number: 20095-0001

Received: 12/9/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/11/20

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 12/11/20

Steve Moskal  
1199 Main Ave. Suite 242  
Durango, CO 81301



Project Name: Roelofs B # 3  
Workorder: E012038  
Date Received: 12/9/2020 4:24:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/9/2020 4:24:00PM, under the Project Name: Roelofs B # 3.

The analytical test results summarized in this report with the Project Name: Roelofs B # 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name:	Roelofs B # 3	<b>Reported:</b>  12/11/20 13:58
	Project Number:	20095-0001	
	Project Manager:	Steve Moskal	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
1 5PC - NSW (6'-18')	E012038-01A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
2 5PC - ESW (NE) (6'-18')	E012038-02A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
3 5PC - ESW (SE) (6'-18')	E012038-03A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
4 5PC - SSW (7'-12')	E012038-04A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
5 5PC - WSW (SE) (7'-12')	E012038-05A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
6 5PC - WSW (NE) (6'-18')	E012038-06A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
7 5PC - EB (NE) @ 19'	E012038-07A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.
8 5PC - EB (SE) @ 13'	E012038-08A	Soil	12/09/20	12/09/20	Glass Jar, 4 oz.



## QC Summary Data

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	Reported: 12/11/2020 1:58:37PM
---	--	-----------------------------------

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2050024-BLK1)

Prepared: 12/10/20 Analyzed: 12/10/20

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

## LCS (2050024-BS1)

Prepared: 12/10/20 Analyzed: 12/10/20

Benzene	4.86	0.0250	5.00		97.1	70-130			
Toluene	4.99	0.0250	5.00		99.8	70-130			
Ethylbenzene	4.94	0.0250	5.00		98.7	70-130			
p,m-Xylene	9.78	0.0500	10.0		97.8	70-130			
o-Xylene	4.86	0.0250	5.00		97.1	70-130			
Total Xylenes	14.6	0.0250	15.0		97.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			

## Matrix Spike (2050024-MS1)

Source: E012013-01 Prepared: 12/10/20 Analyzed: 12/10/20

Benzene	5.32	0.0250	5.00	ND	106	54-133			
Toluene	5.42	0.0250	5.00	ND	108	61-130			
Ethylbenzene	5.38	0.0250	5.00	ND	108	61-133			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
o-Xylene	5.33	0.0250	5.00	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

## Matrix Spike Dup (2050024-MSD1)

Source: E012013-01 Prepared: 12/10/20 Analyzed: 12/10/20

Benzene	4.97	0.0250	5.00	ND	99.3	54-133	6.90	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	6.58	20	
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133	6.75	20	
p,m-Xylene	9.96	0.0500	10.0	ND	99.6	63-131	6.83	20	
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131	6.86	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131	6.84	20	
Surrogate: 4-Bromochlorobenzene-PID	8.35		8.00		104	70-130			





## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/11/2020 1:58:37PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2050024-BLK1)

Prepared: 12/10/20 Analyzed: 12/10/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.81		8.00		85.1	70-130			

## LCS (2050024-BS2)

Prepared: 12/10/20 Analyzed: 12/10/20

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			

## Matrix Spike (2050024-MS2)

Source: E012013-01 Prepared: 12/10/20 Analyzed: 12/10/20

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		8.00		85.4	70-130			

## Matrix Spike Dup (2050024-MSD2)

Source: E012013-01 Prepared: 12/10/20 Analyzed: 12/10/20

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.0	70-130	8.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		8.00		85.5	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/11/2020 1:58:37PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2050023-BLK1)

Prepared: 12/10/20 Analyzed: 12/10/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: <i>n</i> -Nonane	42.1		50.0		84.1	50-200			

## LCS (2050023-BS1)

Prepared: 12/10/20 Analyzed: 12/10/20

Diesel Range Organics (C10-C28)	428	25.0	500		85.7	38-132			
Surrogate: <i>n</i> -Nonane	45.2		50.0		90.4	50-200			

## Matrix Spike (2050023-MS1)

Source: E012038-01 Prepared: 12/10/20 Analyzed: 12/10/20

Diesel Range Organics (C10-C28)	470	25.0	500	ND	94.1	38-132			
Surrogate: <i>n</i> -Nonane	40.3		50.0		80.5	50-200			

## Matrix Spike Dup (2050023-MSD1)

Source: E012038-01 Prepared: 12/10/20 Analyzed: 12/10/20

Diesel Range Organics (C10-C28)	476	25.0	500	ND	95.2	38-132	1.22	20	
Surrogate: <i>n</i> -Nonane	47.9		50.0		95.9	50-200			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/11/2020 1:58:37PM

## Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2050026-BLK1)

Prepared: 12/10/20 Analyzed: 12/10/20

Chloride ND 20.0

## LCS (2050026-BS1)

Prepared: 12/10/20 Analyzed: 12/10/20

Chloride 249 20.0 250 99.8 90-110

## Matrix Spike (2050026-MS1)

Source: E012038-01 Prepared: 12/10/20 Analyzed: 12/10/20

Chloride 252 20.0 250 ND 101 80-120

## Matrix Spike Dup (2050026-MSD1)

Source: E012038-01 Prepared: 12/10/20 Analyzed: 12/10/20

Chloride 252 20.0 250 ND 101 80-120 0.0397 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

SIMCOE LLC	Project Name:	Roelofs B # 3	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Steve Moskal	12/11/20 13:58

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 12/9/2020 4:45:15PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	12/09/20 16:24	Work Order ID:	E012038
Phone:	(505) 330-9179	Date Logged In:	12/09/20 16:33	Logged In By:	Alexa Michaels
Email:	smoskal@ikavenergy.com	Due Date:	12/10/20 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Nelson VelezComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Email- SMoskal &amp; EDunman@ikavenergy.com, KSiesser, JHarter &amp; Nvelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Steve Moskal



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

SIMCOE LLC

Project Name: Roelofs B # 3

Work Order: E012045

Job Number: 20095-0001

Received: 12/11/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/15/20

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 12/15/20

Steve Moskal  
1199 Main Ave. Suite 242  
Durango, CO 81301



Project Name: Roelofs B # 3  
Workorder: E012045  
Date Received: 12/11/2020 2:44:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/11/2020 2:44:00PM, under the Project Name: Roelofs B # 3.

The analytical test results summarized in this report with the Project Name: Roelofs B # 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name:	Roelofs B # 3	<b>Reported:</b>  12/15/20 10:15
	Project Number:	20095-0001	
	Project Manager:	Steve Moskal	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
2A 5PC - ESW (NE) (6'-18')	E012045-01A	Soil	12/11/20	12/11/20	Glass Jar, 4 oz.



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/15/2020 10:15:53AM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2050035-BLK1)

Prepared: 12/11/20 Analyzed: 12/11/20

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.13		8.00		114	70-130			

## LCS (2050035-BS1)

Prepared: 12/11/20 Analyzed: 12/11/20

Benzene	5.33	0.0250	5.00		107	70-130			
Toluene	5.32	0.0250	5.00		106	70-130			
Ethylbenzene	5.26	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
o-Xylene	5.32	0.0250	5.00		106	70-130			
Total Xylenes	16.0	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.61		8.00		120	70-130			

## Matrix Spike (2050035-MS1)

Source: E012044-01 Prepared: 12/11/20 Analyzed: 12/11/20

Benzene	5.16	0.0250	5.00	ND	103	54-133			
Toluene	5.17	0.0250	5.00	ND	103	61-130			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
o-Xylene	5.18	0.0250	5.00	ND	104	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	9.70		8.00		121	70-130			

## Matrix Spike Dup (2050035-MSD1)

Source: E012044-01 Prepared: 12/11/20 Analyzed: 12/11/20

Benzene	5.21	0.0250	5.00	ND	104	54-133	0.961	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	0.0803	20	
Ethylbenzene	5.11	0.0250	5.00	ND	102	61-133	0.323	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.299	20	
o-Xylene	5.19	0.0250	5.00	ND	104	63-131	0.0501	20	
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131	0.183	20	
Surrogate: 4-Bromochlorobenzene-PID	9.62		8.00		120	70-130			





## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/15/2020 10:15:53AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2050035-BLK1)

Prepared: 12/11/20 Analyzed: 12/11/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

## LCS (2050035-BS2)

Prepared: 12/11/20 Analyzed: 12/11/20

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

## Matrix Spike (2050035-MS2)

Source: E012044-01 Prepared: 12/11/20 Analyzed: 12/11/20

Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			

## Matrix Spike Dup (2050035-MSD2)

Source: E012044-01 Prepared: 12/11/20 Analyzed: 12/11/20

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.1	70-130	0.748	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		8.00		93.2	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/15/2020 10:15:53AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2050036-BLK1)

Prepared: 12/11/20 Analyzed: 12/11/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	58.1		50.0		116	50-200			

## LCS (2050036-BS1)

Prepared: 12/11/20 Analyzed: 12/11/20

Diesel Range Organics (C10-C28)	443	25.0	500		88.6	38-132			
Surrogate: n-Nonane	50.3		50.0		101	50-200			

## Matrix Spike (2050036-MS1)

Source: E012040-01 Prepared: 12/11/20 Analyzed: 12/11/20

Diesel Range Organics (C10-C28)	461	25.0	500	ND	92.2	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			

## Matrix Spike Dup (2050036-MSD1)

Source: E012040-01 Prepared: 12/11/20 Analyzed: 12/11/20

Diesel Range Organics (C10-C28)	444	25.0	500	ND	88.8	38-132	3.68	20	
Surrogate: n-Nonane	47.1		50.0		94.2	50-200			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/15/2020 10:15:53AM

## Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2050037-BLK1)

Prepared: 12/11/20 Analyzed: 12/11/20

Chloride ND 20.0

## LCS (2050037-BS1)

Prepared: 12/11/20 Analyzed: 12/11/20

Chloride 253 20.0 250 101 90-110

## Matrix Spike (2050037-MS1)

Source: E012035-01 Prepared: 12/11/20 Analyzed: 12/11/20

Chloride 277 20.0 250 ND 111 80-120

## Matrix Spike Dup (2050037-MSD1)

Source: E012035-01 Prepared: 12/11/20 Analyzed: 12/11/20

Chloride 273 20.0 250 ND 109 80-120 1.16 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## Definitions and Notes

SIMCOE LLC	Project Name:	Roelofs B # 3	
1199 Main Ave. Suite 242	Project Number:	20095-0001	<b>Reported:</b>
Durango CO, 81301	Project Manager:	Steve Moskal	12/15/20 10:15

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 12/11/2020 3:11:33PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	12/11/20 14:44	Work Order ID:	E012045
Phone:	(505) 330-9179	Date Logged In:	12/11/20 15:08	Logged In By:	Alexa Michaels
Email:	smoskal@ikavenergy.com	Due Date:	12/14/20 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Nelson VelezComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Email- SMoskal &amp; EDunman@ikavenergy.com, KSiesser, JHarter &amp; Nvelez@cottonwoodconsulting.com

Email- SMoskal &  
EDunman@ikavenergy.com, KSiesser,  
JHarter &  
Nvelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Steve Moskal



# envirotech

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## Analytical Report

SIMCOE LLC

Project Name: Roelofs B # 3

Work Order: E012063

Job Number: 20095-0001

Received: 12/17/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/21/20

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 12/21/20

Steve Moskal  
1199 Main Ave. Suite 242  
Durango, CO 81301



Project Name: Roelofs B # 3  
Workorder: E012063  
Date Received: 12/17/2020 3:45:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/17/2020 3:45:00PM, under the Project Name: Roelofs B # 3.

The analytical test results summarized in this report with the Project Name: Roelofs B # 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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**Sample Summary**

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name: Roelofs B # 3 Project Number: 20095-0001 Project Manager: Steve Moskal	<b>Reported:</b> 12/21/20 16:58
---	--	------------------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-1	E012063-01A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-2	E012063-02A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-3	E012063-03A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-4	E012063-04A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-5	E012063-05A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-6	E012063-06A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-7	E012063-07A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.
TSP-8	E012063-08A	Soil	12/17/20	12/17/20	Glass Jar, 4 oz.



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/21/2020 4:58:11PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2051031-BLK1)

Prepared: 12/17/20 Analyzed: 12/18/20

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.6	70-130			

## LCS (2051031-BS1)

Prepared: 12/17/20 Analyzed: 12/17/20

Benzene	5.60	0.0250	5.00		112	70-130			
Toluene	5.63	0.0250	5.00		113	70-130			
Ethylbenzene	5.58	0.0250	5.00		112	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
o-Xylene	5.65	0.0250	5.00		113	70-130			
Total Xylenes	17.0	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		104	70-130			

## Matrix Spike (2051031-MS1)

Source: E012055-01 Prepared: 12/17/20 Analyzed: 12/17/20

Benzene	5.50	0.0250	5.00	ND	110	54-133			
Toluene	5.52	0.0250	5.00	ND	110	61-130			
Ethylbenzene	5.47	0.0250	5.00	ND	109	61-133			
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131			
o-Xylene	5.53	0.0250	5.00	ND	111	63-131			
Total Xylenes	16.6	0.0250	15.0	ND	111	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			

## Matrix Spike Dup (2051031-MSD1)

Source: E012055-01 Prepared: 12/17/20 Analyzed: 12/17/20

Benzene	5.63	0.0250	5.00	ND	113	54-133	2.38	20	
Toluene	5.62	0.0250	5.00	ND	112	61-130	1.76	20	
Ethylbenzene	5.56	0.0250	5.00	ND	111	61-133	1.78	20	
p,m-Xylene	11.3	0.0500	10.0	ND	113	63-131	1.71	20	
o-Xylene	5.63	0.0250	5.00	ND	113	63-131	1.80	20	
Total Xylenes	16.9	0.0250	15.0	ND	113	63-131	1.74	20	
Surrogate: 4-Bromochlorobenzene-PID	8.29		8.00		104	70-130			





## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/21/2020 4:58:11PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2051031-BLK1)

Prepared: 12/17/20 Analyzed: 12/18/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			

## LCS (2051031-BS2)

Prepared: 12/17/20 Analyzed: 12/17/20

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.7	70-130			

## Matrix Spike (2051031-MS2)

Source: E012055-01 Prepared: 12/17/20 Analyzed: 12/17/20

Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.4	70-130			

## Matrix Spike Dup (2051031-MSD2)

Source: E012055-01 Prepared: 12/17/20 Analyzed: 12/17/20

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.9	70-130	6.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/21/2020 4:58:11PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2051036-BLK1)

Prepared: 12/18/20 Analyzed: 12/18/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	50-200			

## LCS (2051036-BS1)

Prepared: 12/18/20 Analyzed: 12/18/20

Diesel Range Organics (C10-C28)	444	25.0	500		88.8	38-132			
Surrogate: n-Nonane	57.2		50.0		114	50-200			

## Matrix Spike (2051036-MS1)

Source: E012061-08 Prepared: 12/18/20 Analyzed: 12/18/20

Diesel Range Organics (C10-C28)	484	25.0	500	27.5	91.2	38-132			
Surrogate: n-Nonane	55.8		50.0		112	50-200			

## Matrix Spike Dup (2051036-MSD1)

Source: E012061-08 Prepared: 12/18/20 Analyzed: 12/18/20

Diesel Range Organics (C10-C28)	452	25.0	500	27.5	84.9	38-132	6.79	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/21/2020 4:58:11PM

## Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2051032-BLK1)

Prepared: 12/17/20 Analyzed: 12/17/20

Chloride ND 20.0

## LCS (2051032-BS1)

Prepared: 12/17/20 Analyzed: 12/17/20

Chloride 252 20.0 250 101 90-110

## Matrix Spike (2051032-MS1)

Source: E012059-01 Prepared: 12/17/20 Analyzed: 12/17/20

Chloride 252 20.0 250 ND 101 80-120

## Matrix Spike Dup (2051032-MSD1)

Source: E012059-01 Prepared: 12/17/20 Analyzed: 12/17/20

Chloride 252 20.0 250 ND 101 80-120 0.111 20

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

SIMCOE LLC	Project Name:	Roelofs B # 3	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Steve Moskal	12/21/20 16:58

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 12/18/2020 12:35:40PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	12/17/20 15:45	Work Order ID:	E012063
Phone:	(505) 330-9179	Date Logged In:	12/17/20 15:48	Logged In By:	Raina Schwanz
Email:	smoskal@ikavenergy.com	Due Date:	12/18/20 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Nelson VelezComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Email- EDunman@ikavenergy.com, KSiesser, JHarter &amp; Nvelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Steve Moskal



# envirotech

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## Analytical Report

SIMCOE LLC

Project Name: Roelofs B # 3

Work Order: E012084

Job Number: 20095-0001

Received: 12/22/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/24/20

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 12/24/20

Steve Moskal  
1199 Main Ave. Suite 242  
Durango, CO 81301



Project Name: Roelofs B # 3  
Workorder: E012084  
Date Received: 12/22/2020 2:46:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/22/2020 2:46:00PM, under the Project Name: Roelofs B # 3.

The analytical test results summarized in this report with the Project Name: Roelofs B # 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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**Sample Summary**

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b> 12/24/20 08:08
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP - 1A	E012084-01A	Soil	12/22/20	12/22/20	Glass Jar, 4 oz.
TSP - 2A	E012084-02A	Soil	12/22/20	12/22/20	Glass Jar, 4 oz.
TSP - 3A	E012084-03A	Soil	12/22/20	12/22/20	Glass Jar, 4 oz.
TSP - 6A	E012084-04A	Soil	12/22/20	12/22/20	Glass Jar, 4 oz.



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/2020 8:08:47AM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2052007-BLK1)

Prepared: 12/22/20 Analyzed: 12/22/20

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

## LCS (2052007-BS1)

Prepared: 12/22/20 Analyzed: 12/23/20

Benzene	5.31	0.0250	5.00		106	70-130			
Toluene	5.35	0.0250	5.00		107	70-130			
Ethylbenzene	5.29	0.0250	5.00		106	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
o-Xylene	5.35	0.0250	5.00		107	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

## Matrix Spike (2052007-MS1)

Source: E012071-01 Prepared: 12/22/20 Analyzed: 12/23/20

Benzene	5.17	0.0250	5.00	ND	103	54-133			
Toluene	5.20	0.0250	5.00	ND	104	61-130			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
o-Xylene	5.21	0.0250	5.00	ND	104	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			

## Matrix Spike Dup (2052007-MSD1)

Source: E012071-01 Prepared: 12/22/20 Analyzed: 12/23/20

Benzene	5.33	0.0250	5.00	ND	107	54-133	3.03	20	
Toluene	5.35	0.0250	5.00	ND	107	61-130	2.84	20	
Ethylbenzene	5.31	0.0250	5.00	ND	106	61-133	2.96	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	2.84	20	
o-Xylene	5.37	0.0250	5.00	ND	107	63-131	2.96	20	
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	2.88	20	
Surrogate: 4-Bromochlorobenzene-PID	8.36		8.00		105	70-130			





## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/2020 8:08:47AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2052007-BLK1)

Prepared: 12/22/20 Analyzed: 12/22/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

## LCS (2052007-BS2)

Prepared: 12/22/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	46.2	20.0	50.0		92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

## Matrix Spike (2052007-MS2)

Source: E012071-01 Prepared: 12/22/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130			

## Matrix Spike Dup (2052007-MSD2)

Source: E012071-01 Prepared: 12/22/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130	1.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/2020 8:08:47AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2052006-BLK1)

Prepared: 12/22/20 Analyzed: 12/22/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

## LCS (2052006-BS1)

Prepared: 12/22/20 Analyzed: 12/22/20

Diesel Range Organics (C10-C28)	387	25.0	500		77.4	38-132			
Surrogate: n-Nonane	43.0		50.0		86.1	50-200			

## Matrix Spike (2052006-MS1)

Source: E012073-02 Prepared: 12/22/20 Analyzed: 12/22/20

Diesel Range Organics (C10-C28)	400	25.0	500	ND	80.0	38-132			
Surrogate: n-Nonane	43.4		50.0		86.9	50-200			

## Matrix Spike Dup (2052006-MSD1)

Source: E012073-02 Prepared: 12/22/20 Analyzed: 12/22/20

Diesel Range Organics (C10-C28)	398	25.0	500	ND	79.7	38-132	0.408	20	
Surrogate: n-Nonane	43.6		50.0		87.2	50-200			

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



## Definitions and Notes

SIMCOE LLC	Project Name:	Roelofs B # 3	
1199 Main Ave. Suite 242	Project Number:	20095-0001	<b>Reported:</b>
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/20 08:08

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 12/22/2020 3:13:51PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	12/22/20 14:46	Work Order ID:	E012084
Phone:	(505) 330-9179	Date Logged In:	12/22/20 15:08	Logged In By:	Alexa Michaels
Email:	smoskal@ikavenergy.com	Due Date:	12/23/20 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Nelson VelezComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Email- EDunman@ikavenergy.com, KSiesser, JHarter &amp; NVelez@cottonwoodconsulting.com

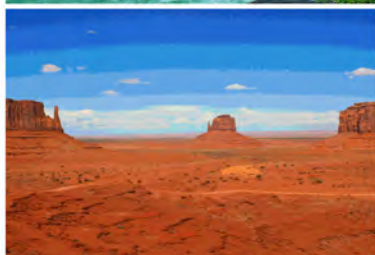
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Steve Moskal



# envirotech

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## Analytical Report

SIMCOE LLC

Project Name: Roelofs B 003

Work Order: E012096

Job Number: 20095-0001

Received: 12/23/2020

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/24/20

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.



Date Reported: 12/24/20

Steve Moskal  
1199 Main Ave. Suite 242  
Durango, CO 81301



Project Name: Roelofs B 003  
Workorder: E012096  
Date Received: 12/23/2020 2:10:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/23/2020 2:10:00PM, under the Project Name: Roelofs B 003.

The analytical test results summarized in this report with the Project Name: Roelofs B 003 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

SIMCOE LLC 1199 Main Ave. Suite 242 Durango CO, 81301	Project Name:	Roelofs B 003	<b>Reported:</b>  12/24/20 12:10
	Project Number:	20095-0001	
	Project Manager:	Steve Moskal	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TS-3B	E012096-01A	Soil	12/23/20	12/23/20	Glass Jar, 4 oz.



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B 003	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/2020 12:10:08PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2052019-BLK1)

Prepared: 12/23/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.1	70-130			

## LCS (2052019-BS2)

Prepared: 12/23/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		99.9	70-130			

## Matrix Spike (2052019-MS2)

Source: E012067-01 Prepared: 12/23/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			

## Matrix Spike Dup (2052019-MSD2)

Source: E012067-01 Prepared: 12/23/20 Analyzed: 12/23/20

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	10.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B 003	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/2020 12:10:08PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2052014-BLK1)

Prepared: 12/23/20 Analyzed: 12/23/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	46.5		50.0		92.9	50-200			

## LCS (2052014-BS1)

Prepared: 12/23/20 Analyzed: 12/23/20

Diesel Range Organics (C10-C28)	399	25.0	500		79.8	38-132			
Surrogate: n-Nonane	45.9		50.0		91.8	50-200			

## Matrix Spike (2052014-MS1)

Source: E012067-01 Prepared: 12/23/20 Analyzed: 12/23/20

Diesel Range Organics (C10-C28)	420	25.0	500	ND	84.0	38-132			
Surrogate: n-Nonane	45.1		50.0		90.2	50-200			

## Matrix Spike Dup (2052014-MSD1)

Source: E012067-01 Prepared: 12/23/20 Analyzed: 12/23/20

Diesel Range Organics (C10-C28)	434	25.0	500	ND	86.9	38-132	3.29	20	
Surrogate: n-Nonane	42.8		50.0		85.7	50-200			

## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





## Definitions and Notes

SIMCOE LLC	Project Name:	Roelofs B 003	
1199 Main Ave. Suite 242	Project Number:	20095-0001	<b>Reported:</b>
Durango CO, 81301	Project Manager:	Steve Moskal	12/24/20 12:10

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 12/23/2020 2:13:26PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	12/23/20 14:10	Work Order ID:	E012096
Phone:	(505) 330-9179	Date Logged In:	12/23/20 14:10	Logged In By:	Raina Schwanz
Email:	smoskal@ikavenergy.com	Due Date:	12/23/20 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Steve MoskalComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? No
8. If yes, was cooler received in good condition? NA
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C No

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 9.06°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Steve Moskal



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

SIMCOE LLC

Project Name: Roelofs B # 3

Work Order: E101004

Job Number: 20095-0001

Received: 1/5/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
1/11/21

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM009792018-1 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 1/11/21

Steve Moskal  
1199 Main Ave. Suite 242  
Durango, CO 81301



Project Name: Roelofs B # 3  
Workorder: E101004  
Date Received: 1/5/2021 12:42:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/5/2021 12:42:00PM, under the Project Name: Roelofs B # 3.

The analytical test results summarized in this report with the Project Name: Roelofs B # 3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

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

Respectfully,

**Walter Hinchman**  
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Office: 505-632-1881  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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**Sample Summary**

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b> 01/11/21 08:46
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
VZ-1	E101004-01A	Soil	01/05/21	01/05/21	Glass Jar, 4 oz.
VZ-2	E101004-02A	Soil	01/05/21	01/05/21	Glass Jar, 4 oz.





## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	1/11/2021 8:46:53AM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2102008-BLK1)

Prepared: 01/05/21 Analyzed: 01/05/21

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130			

## LCS (2102008-BS1)

Prepared: 01/05/21 Analyzed: 01/05/21

Benzene	5.23	0.0250	5.00		105	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.27	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
o-Xylene	5.32	0.0250	5.00		106	70-130			
Total Xylenes	16.0	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		103	70-130			

## Matrix Spike (2102008-MS1)

Source: E101002-01 Prepared: 01/05/21 Analyzed: 01/05/21

Benzene	4.95	0.0250	5.00	ND	98.9	54-133			
Toluene	5.03	0.0250	5.00	0.0471	99.6	61-130			
Ethylbenzene	4.97	0.0250	5.00	0.0284	98.9	61-133			
p,m-Xylene	10.1	0.0500	10.0	0.101	100	63-131			
o-Xylene	5.00	0.0250	5.00	0.0281	99.5	63-131			
Total Xylenes	15.1	0.0250	15.0	0.129	99.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.4	70-130			

## Matrix Spike Dup (2102008-MSD1)

Source: E101002-01 Prepared: 01/05/21 Analyzed: 01/05/21

Benzene	5.30	0.0250	5.00	ND	106	54-133	6.95	20	
Toluene	5.37	0.0250	5.00	0.0471	106	61-130	6.58	20	
Ethylbenzene	5.31	0.0250	5.00	0.0284	106	61-133	6.64	20	
p,m-Xylene	10.8	0.0500	10.0	0.101	107	63-131	6.49	20	
o-Xylene	5.35	0.0250	5.00	0.0281	106	63-131	6.74	20	
Total Xylenes	16.1	0.0250	15.0	0.129	107	63-131	6.57	20	
Surrogate: 4-Bromochlorobenzene-PID	7.93		8.00		99.1	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	1/11/2021 8:46:53AM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2102008-BLK1)

Prepared: 01/05/21 Analyzed: 01/05/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

## LCS (2102008-BS2)

Prepared: 01/05/21 Analyzed: 01/05/21

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			

## Matrix Spike (2102008-MS2)

Source: E101002-01 Prepared: 01/05/21 Analyzed: 01/05/21

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.4	70-130			

## Matrix Spike Dup (2102008-MSD2)

Source: E101002-01 Prepared: 01/05/21 Analyzed: 01/05/21

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.2	70-130	6.24	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	Reported:
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	1/11/2021 8:46:53AM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2102015-BLK1)

Prepared: 01/05/21 Analyzed: 01/05/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.2		50.0		100	50-200			

## LCS (2102015-BS1)

Prepared: 01/05/21 Analyzed: 01/05/21

Diesel Range Organics (C10-C28)	441	25.0	500		88.2	38-132			
Surrogate: <i>n</i> -Nonane	45.9		50.0		91.8	50-200			

## Matrix Spike (2102015-MS1)

Source: E101004-01 Prepared: 01/05/21 Analyzed: 01/05/21

Diesel Range Organics (C10-C28)	647	25.0	500	113	107	38-132			
Surrogate: <i>n</i> -Nonane	53.1		50.0		106	50-200			

## Matrix Spike Dup (2102015-MSD1)

Source: E101004-01 Prepared: 01/05/21 Analyzed: 01/05/21

Diesel Range Organics (C10-C28)	640	25.0	500	113	105	38-132	1.00	20	
Surrogate: <i>n</i> -Nonane	59.8		50.0		120	50-200			



## QC Summary Data

SIMCOE LLC	Project Name:	Roelofs B # 3	<b>Reported:</b>
1199 Main Ave. Suite 242	Project Number:	20095-0001	
Durango CO, 81301	Project Manager:	Steve Moskal	1/11/2021 8:46:53AM

## Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2102021-BLK1)

Prepared: 01/07/21 Analyzed: 01/07/21

Chloride	ND	20.0
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## LCS (2102021-BS1)

Prepared: 01/07/21 Analyzed: 01/07/21

Chloride	251	20.0	250	100	90-110
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## Matrix Spike (2102021-MS1)

Source: E101001-01 Prepared: 01/07/21 Analyzed: 01/07/21

Chloride	451	20.0	250	200	100	80-120
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## Matrix Spike Dup (2102021-MSD1)

Source: E101001-01 Prepared: 01/07/21 Analyzed: 01/07/21

Chloride	471	20.0	250	200	108	80-120	4.19	20
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## QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

SIMCOE LLC	Project Name:	Roelofs B # 3	
1199 Main Ave. Suite 242	Project Number:	20095-0001	Reported:
Durango CO, 81301	Project Manager:	Steve Moskal	01/11/21 08:46

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Envirotech Analytical Laboratory

Printed: 1/5/2021 1:10:09PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	SIMCOE LLC	Date Received:	01/05/21 12:42	Work Order ID:	E101004
Phone:	(505) 330-9179	Date Logged In:	01/05/21 12:52	Logged In By:	Alexa Michaels
Email:	smoskal@ikavenergy.com	Due Date:	01/12/21 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Nelson VelezComments/Resolution

Green copy of COC was made due to incorrect sample date

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Email- EDunman@ikavenergy.com, NVelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 14740

**CONDITIONS**

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 14740
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
csmith	Reclamation needs to be completed at time of P&A or within 90 days once the area is no longer needed for the exploration/production of Oil and Gas	5/10/2022