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September 19, 2017

Anastasia Shukalkina, Hearing Services  
Alberta Energy Regulator  
[Anastasia.Shukalkina@aer.ca](mailto:Anastasia.Shukalkina@aer.ca)

**Re: Shell Canada Report on Action Plan for ERCB Decision 2013-009  
Waterton 68 Applications for Pipeline and Facilities Licences**

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Shell Canada Limited (Shell) received approval from the Alberta Energy Regulator for the Waterton 68 pipelines and facilities on May 28, 2013 in ERCB Decision 2013 ABERCB 009. Appendix 4 to the Decision set out an Action Plan with action items and requirements for follow-up. Shell last reported on the status and evidence of completion of the Action Plan items on June 27, 2016. The following is an update to that report.

**1. RWDI Recommendations: Partially Complete, Actions Ongoing**

The AER directed Shell to install the first perimeter monitor at the Waterton 68 well site before producing the Waterton 68 well, with the other perimeter monitors being installed after the start of production and testing of the initial perimeter monitoring system. The perimeter monitoring system at WT-68 is currently operational and has been piloted to test viability long-term and at other sites. Shell upgraded certain aspects of this system as detailed below. These upgrades will remain consistent with the implementation of the new perimeter monitoring systems.

The following *Table 1: RWDI Recommendations Report* provides the most recent status of each of the nine RWDI recommendations, with updated information noted in purple font. Shell will continue to provide regular updates on these initiatives through the Waterton Advisory Group (WAG) meetings.

**2. WAG Meetings**

The progress of implementation of the RWDI Recommendations have been discussed at all WAG meetings since the approval of the Waterton 68 pipeline and facility on May 28, 2013.

Shell hosted the latest WAG meeting on May 8, 2017. The next WAG meeting will take place in the Fall of 2017.

Development of new wells and infrastructure in the Waterton field is presented, when required, to the New Development Sub-Committee (NDSC) of WAG. The last NDSC meeting was October 14, 2015 and minutes were provided as part of the previous November 18, 2015 update to AER. The next meeting will be scheduled in advance of potential new development so the committee can be involved

in early evaluation. Shell also provides a bi-monthly activity emails to all WAG members which includes the NDSC members to keep them informed of timely updates in Waterton.

- Attached please find the four email updates from 2017 and the meeting minutes from the WAG meeting:
  - July 12, 2017 – WAG Email Update
  - May 17, 2017 – WAG Email Update
  - May 8, 2017 – WAG Meeting Minutes
  - February 14, 2017 – WAG Email Update

**Table 1: Summary of Ongoing Actions Related to Open RWDI Recommendations**

RWDI Recommendation Number	Recommendation Description <sup>a</sup>	Shell Updates (As of August 23, 2017)	Status
#3	Four perimeter H <sub>2</sub> S monitors should be installed at each of the following six well sites: WAT junction, 6-16-6-2 W5M; TX-5-20, 5-20-6-2 W5M; TX-6-17, 6-17-6-2 W5M; WT-61, 10-7-6-2 W5M; WT-68, NE-1-6-3 W5M; and CA 6-12, 6-12-6-3 W5M.	<ul style="list-style-type: none"> <li>• The perimeter monitoring system at WT-68 is currently operational and is being piloted to test viability long-term and at other sites.</li> <li>• Shell conducted a number of upgrades for the WT-68 perimeter monitoring station in the summer of 2016, which included replacement of fiber optic cables, upgrades to software, and the installation of new post foundations. Based on the upgrades conducted to the existing WT68, Shell will be advancing plans for the remaining five perimeter monitoring systems in 2017.</li> <li>• Shell will keep the AER and WAG updated on progress as this work is undertaken.</li> <li>• <b>Perimeter monitors for two of the remaining sites will be installed by the end of Q4 2017/Q1 2018</b></li> </ul>	Ongoing
<p>NOTE:</p> <p><sup>a</sup> For full details on the recommendations, refer to the RWDI report entitled “<i>Ambient Air Monitoring Program Design: Screwdriver Creek Valley</i>” (dated December 5, 2012).</p>			

We trust that this information meets your current needs. If you would like to further discuss the information contained herein, please do not hesitate to contact me by phone at 587-233-4869 or via email at [Molly.Minuk@shell.com](mailto:Molly.Minuk@shell.com).

Sincerely,

A handwritten signature in cursive script, appearing to read "Molly Minuk". The signature is written in a dark ink and is positioned above the typed name and title.

Molly Minuk  
Regulatory Specialist  
Shell Canada Limited

## Waterton Advisory Group

### Meeting Notes – May 8, 2017

#### Attendees:

Name	Organization
Fraser Stewart	Resident, CMR
Ron Schmidt	Resident
David Green	SASCI
Stuart McDowall	Resident
Cliff Elle	Resident
Mitchell and Pat Hardy	Residents
Garry Marchuk	MD Pincher Creek
Jen Lough	Alberta Energy Regulator (AER)
Peter Argument	Shell (Waterton Plant Operations Manager)
Steve Polvi	Shell (Foothills Development Manager)
Rod Sinclair	Shell (Waterton Community Affairs)
Patty Richards	Shell (External Relations)
Jen Platman	Shell (External Relations)

*What follows is an informal summary of the topics and perspectives shared at a Waterton Advisory Group (WAG) meeting. WAG meetings are intended to supplement (but not replace) Shell's obligation to consult directly with affected stakeholders under the Alberta Energy Regulator's Directive 56. These meeting notes are a public document. The views shared within are the views of individuals and are not necessarily the consensus views of participants.*

#### 1. Introductions and Welcome

Jen Platman introduces herself as the facilitator – notes that if people see a need for a third party facilitator similar to what we've done in past meetings, we are happy to consider. Let Jen or Rod know if any thoughts or concerns with this modification. Karla and Kerry with Moving Forward have done a wonderful job over the past 9 years and we appreciate their support and dedication to WAG and Synergy groups.

#### 2. Operations Report

Peter Argument reviewed operations for the field and the Waterton Complex to date (from June 2016 to April 2017). Peter talked about the current turn-around and that every five years we need to shut down for maintenance. This effort requires a considerable amount of resources .

**Integrity Events:** 0 to date - May 2016 through April 2017.

**Odour notifications:** A total of 11 notifications were received, of which 8 were confirmed to be from Shell sources. These included plant stack top emissions, field heater emissions and condensate loading. One non-Shell source was identified from a prescribed burn.

#### **Traffic related notifications:**

- Speed – one complaint of Shell steamer unit speeding on the Seven Gates road.

- Noise- three related to line heaters in field; one related to plant emergency alarm; one related to condensate truck jake brakes on highway 6; one unconfirmed source in Beaver Mines.
- Dust- one dust complaint on 5-20 Screw Driver Creek road during pipeline liner repairs. one dust complaint on MD road and Shell loop road.
- Other- one unconfirmed vehicle trespassed off Screw Driver Creek road on to private land.

### **3. Alberta Parks and Waterton Social and Environmental Impact Assessment**

Patty Richards provided an overview. Shell continues to work with AEP to understand any potential limitations, restrictions and mitigations when operating and developing within Parks boundaries. We will seek their feedback in road reclamation, amongst other potential work that can affect parks.

David Green provided an update on the Waterton Social Impact Assessment being conducted for the Southern Alberta Sustainable Communities Initiative (SASCI). The contract has been awarded to Nicolls and they will be looking at the social and economic impact of Shell on the community. Public consultation will begin this fall.

### **4. Shell Waterton Development Plans for 2017 and 2018**

Steve Polvi provided an update on Shell's development plans for the Waterton area:

- We are progressing the WT-78 well in the south area of the field. We have applied to the AER for a license, and are actively consulting with concerned residents through the AER's Alternative Dispute Resolution process.
- We are also proposing to re-enter the well location at CR-74 (Castle River 6-17). Shell previously constructed and drilled this well, although we could not produce it due to gravel and rocks. We are planning to re-enter and sidetrack the well-bore with a screen to mitigate the rocks and produce the gas into existing infrastructure. No new footprint will be required for this application. We will be progressing with public consultation shortly with affected stakeholders.
- Discussed wellsite perimeter monitoring and how it works. Further sites will have this technology installed in 2017.
- We are proposing a small pipeline (~650 m) on private land at Junction 61 to tie-in existing wells into existing infrastructure and produce to the Waterton plant. Discussed the route chosen due to existing ROW's and linear disturbance. Discussion around boring under wetlands. Consultation to begin shortly with affected stakeholders.

#### **4. Environmental update:**

Rod Sinclair provided an update on behalf of Stephen DeCock (Shell Environmental Coordinator). Rod outlined the weed management plan and ongoing monitoring of air, soil, groundwater and waste water on which we will report to the AER.

A question is asked whether members could see charts showing what has improved in air, soil and groundwater.  
Conversation around the Enersul operation and how they do not always turn on the water.

## 5. WAG participant updates:

### Synergy Alberta

- The next Synergy Conference will be held in late October/early November 2017 and the venue will be announced shortly.
- Further information about Synergy Alberta and materials from past conferences are available at <http://www.synergyalberta.ca>.
- If members are interested in attending the conference, please contact Rod Sinclair to discuss.

### Alberta Energy Regulator (AER)

- AER provides an update on the overall work to improve the application process – area based permitting and rec certificates are two pilot projects in this larger process overhaul.
- Further information is available at <http://talk.aer.ca/onestop>. The following is an excerpt from the site: *OneStop is a dual purpose tool. [The public map viewer](#) (External link) is available to everyone who can access the internet, and provides energy related maps of the province. There are many different data layers that you can turn on and off, including the status of reclamation certificate applications.*

*This tool also allows industry to submit their applications. AER staff can now review reclamation certificate applications and make decisions with greater speed and accuracy. The new integrated system better equips the AER to process high volumes of applications going forward.*

**Question** asked about the Town emergency response tabletop and if Shell is involved. Shell is unaware but Rod will check with Greg Hallet (Shell Safety Lead).

Adjourn 8:00 pm

Next meeting will take place in the Fall 2017. Should you require any further information on these or other Shell related projects, please contact Rod Sinclair.

Minuk, Molly SCAN-UPS/U/R

**From:** Sinclair, Rod SCAN-ERD/A  
**Sent:** May-17-17 1:12 PM  
**To:** Anna Eggert; Anne Loosen; Anne Stevick; Argument, Peter SCAN-UPU/F/W; Barrie and Grace Orich ; Behn Morris; Brad Brush; Brent Barbaro; Carolyn Aspeslet (CCWC) ; Chris Coleman; Cliff Elle ; Darryl and Valerie Carlson ; David Green; David Green; DeCock, Stephen SCAN-UPS/U/CF; Dick and Stephanie Hardy; Donna Zoller ; Fisher, Allison L SCAN-UPS/U/R; Fraser Stewart; Gary Mills; Gordon Petersen ; Grant, Deanna SCAN-UPS/U/R; Janet Casey; Jennifer Lough aer; Judy Huntley ; Karen Rendall; Kathy Day; Kim and Patsy Hardy; Kim Barbero; Kyra Dziedzic; Lee McClelland; Leo Reedyk; Lorraine Robbins; Molly; Murray and Susanne Kirby; Murray McFarland; Nora Manners; Norma Fairbairn ; Pat Anderson; Pat Neumann ; Patty Richards; Phil Hazelton; Phill Edmondson; Platman, Jennifer SCAN-ERD/A; Polvi, Steve SCAN-UPU/F/T; Ron Schmidt; Sarah Spranza ; Tara Cryderman; Terry Gottenbos; Wendy Kay; Yvonne McNeely; Drew Rendall  
**Subject:** WAG Email update

Tracking:	Recipient	Delivery
	Anna Eggert	
	Anne Loosen	
	Anne Stevick	
	Argument, Peter SCAN-UPU/F/W	Delivered: 17/05/2017 1:12 PM
	Barrie and Grace Orich	
	Behn Morris	
	Brad Brush	
	Brent Barbaro	
	Carolyn Aspeslet (CCWC)	
	Chris Coleman	
	Cliff Elle	
	Darryl and Valerie Carlson	
	David Green	
	David Green	
	DeCock, Stephen SCAN-UPS/U/CF	Delivered: 17/05/2017 1:12 PM
	Dick and Stephanie Hardy	
	Donna Zoller	
	Fisher, Allison L SCAN-UPS/U/R	Delivered: 17/05/2017 1:13 PM
	Fraser Stewart	
	Gary Mills	
	Gordon Petersen	
	Grant, Deanna SCAN-UPS/U/R	Delivered: 17/05/2017 1:12 PM
	Janet Casey	Failed: 17/05/2017 1:12 PM
	Jennifer Lough aer	
	Judy Huntley	
	Karen Rendall	
	Kathy Day	
	Kim and Patsy Hardy	
	Kim Barbero	
	Kyra Dziedzic	
	Lee McClelland	
	Leo Reedyk	
	Lorraine Robbins	
	Molly	Failed: 17/05/2017 1:12 PM
	Murray and Susanne Kirby	
	Murray McFarland	
	Nora Manners	
	Norma Fairbairn	Failed: 17/05/2017 1:12 PM
	Pat Anderson	
	Pat Neumann	
	Patty Richards	Failed: 17/05/2017 1:12 PM
	Phil Hazelton	
	Phill Edmondson	
	Platman, Jennifer SCAN-ERD/A	Delivered: 17/05/2017 1:12 PM
	Polvi, Steve SCAN-UPU/F/T	Delivered: 17/05/2017 1:12 PM
	Ron Schmidt	
	Sarah Spranza	
	Tara Cryderman	
	Terry Gottenbos	Failed: 17/05/2017 1:12 PM
	Wendy Kay	
	Yvonne McNeely	
	Drew Rendall	

Hello folks!



Hope all is well and your spring has been good. Please find below updates regarding some of the 2017 plans for the Waterton Complex. If you have any questions or require more details, please feel free to contact me.

### **2017 Complex Turnaround**

- We continue to move forward with our 2017 Plant and Field turnaround through May into early June. We are on track with the maintenance and inspection activities at this point and still plan for a restart in early June. We have a significant increase in additional contractors on site for this initiative.

### **Development**

- We have plans to reactivate our WAT-61 and 10-7 wells in the Screw Driver Creek Valley with the installation of a new 650m long pipeline that will replace the abandoned one servicing those wells in the past and will be moving forward with public consultation in the near future with affected stakeholders. An environmental Assessment compliant with AER Information letter (IL) 93-09 will be completed this summer for the WT-61 pipeline. The EA will include a vegetation assessment, soil assessment, wildlife assessments, wetland assessment, and cumulative effects assessment.
- We will be moving forward this summer/fall with the installation of well site H2S perimeter monitoring similar to that at the WAT-68 well site on additional sites in the Screw Driver Creek Valley starting with the CA-6-17 well site.
- We are progressing the WT-78 well in the south area of the field. We have applied to the AER for a license, and are actively consulting with a number of concerned residents through the AER's (Alberta Energy Regulator) Alternative Dispute Resolution process.
- After further analysis of the well bore and reservoir it was decided we will not be going forward with the Coil Tubing operation and well stimulation on CA-6-17 in the Screw Driver Creek Valley this summer. Instead we are proposing to re-enter the well location at Castle River 6-17 in 2018. Shell previously constructed and drilled this well, although we could not produce it due to gravel and rocks in the well bore. We are planning to re-enter and sidetrack the well-bore with a screen to mitigate the rocks and produce the gas into existing infrastructure. No new footprint will be required for this application. We will be progressing with public consultation shortly with affected stakeholders.

### **Environment/Groundwater**

- We have successfully installed six additional piezometers for ground water testing on properties approx. 4km directly east of the Waterton Complex as part of our ongoing Sulfolane groundwater monitoring program. We have successfully flow tested these wells and are currently awaiting the test results.
- We will be reactivating our 2017 weed management plan starting in May with our weed picking crew, contract spraying and vegetation mowing teams.
- We continue with our ongoing monitoring of air, soil, groundwater and waste water as part of our Environmental Approval to Operate which is reported to the AER (Alberta Energy Regulator). The spring groundwater monitoring program is planned to start at the beginning of June. A liming program to mitigate sulphur dust impacts in soil is planned to be completed in May at the complex.

### **Pipeline Inspections**

- We will be executing our Russell Tool Lined Pipe Line inspections on the Carbondale pipeline system after the long weekend in May and we will also be inspecting the existing pipeline we plan to tie into and bring back into service as part of the WAT-61 and 10-7 well reactivation. We will also be continuing our ongoing inspections of various pipelines throughout the Waterton field gathering system over the course of the year.
- We are inspecting our Sour water injection pipeline in the south field as part of the Complex shut down inspection plan.
- We are currently planning on four to five pipeline integrity inspection digs scheduled in the south field during the plant outage in May.

### **Reclamation**

- We have received the reclamation certification on WAT-5 well site west of the Waterton Complex below Prairie Bluff along with WAT-21 well site and associated line heater and junction in Butcher Canyon. We will be moving forward with road reclamation to these sites starting with the access road to WAT-39 below Prairie Bluff in 2017. We will be working with stakeholders using some of our access roads that are listed for reclamation to ensure they are aware and have time to make necessary alternative access plans.
- We plan to move forward this year with the WAT-68 lease site interim reclamation in the Screw Driver Creek Valley.

### **Abandonment**

- Plans are in place to complete a downhole well abandonment at the CA-6-12 well site at the end of the 7 Gates road this summer.

### **Social Investment**

- We have some excellent opportunities to support our community in 2017 so remaining funds are limited for the year however applications can still be made with review scheduled on a quarterly basis.

### **General Information**

- Shell continues to work with AEP (Alberta Environment and Parks) to understand any potential limitations, restrictions and mitigations when operating and developing within Parks boundaries. We will seek their feedback in road reclamation, amongst other potential work that can affect parks.
- A WAG meeting (Waterton Advisory Group) was held on Monday May 8<sup>th</sup> where the previous mentioned topics were discussed with those who attended.
- The Waterton SEIA (Social Economic Impact Assessment) contract has been awarded to a consulting firm and they will be looking at what will Pincher Creek look like when Shell leaves. Public consultation will begin this fall through SASCI (Southern Alberta Sustainable Communities Initiative)
- We will have our Traffic management system in place Starting mid May to manage Shell and public Traffic for the activities planned for the 7 gates road in Screw Driver Creek Valley.

If you know of neighbors or friends who are interested in receiving these updates, or if you would like to unsubscribe please get in touch with Rod Sinclair through email at [rod.sinclair@shell.com](mailto:rod.sinclair@shell.com) or by phone at 403-627-7282. As always, if you have any questions, please do not hesitate to contact me. Talk to you soon.

**Rod Sinclair**  
**Community Liaison Officer**

*My journey is not to arrive at my grave site rested and in a well preserved body.....but rather to skid in, jump off my horse and shout..... YAHOO.....what a ride!!*

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## Minuk, Molly SCAN-UPS/U/R

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**From:** Sinclair, Rod SCAN-ERD/A  
**Sent:** July-12-17 9:52 AM  
**To:** Minuk, Molly SCAN-UPS/U/R  
**Subject:** FW: WAG Email update  
**Attachments:** Waterton Advisory Group Air Bulletin\_06July2017.pdf

Resending since I got an undeliverable message on the first attempt.

**Rod Sinclair**

**Community Liaison Officer**

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**Email:** [Rod.Sinclair@shell.com](mailto:Rod.Sinclair@shell.com)



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**From:** Sinclair, Rod SCAN-ERD/A  
**Sent:** Wednesday, July 12, 2017 9:24 AM  
**To:** 'Anna Eggert' <paeggert@platinum.ca>; 'Anne Loosen' <anne.loosen@gov.ab.ca>; 'Anne Stevick' <stevick@toughcountry.net>; Argument, Peter SCAN-UPU/F/W <Peter.P.Argument@shell.com>; 'Barrie and Grace Orich' <bgorich@shaw.ca>; 'Behn Morris' <Behn.Morris@aer.ca>; 'Brad Brush' <brad@skicastle.ca>; 'Brent Barbaro' <ranch.b@jrtwave.com>; 'Carolyn Aspeslet (CCWC)' <office@ccwc.ab.ca>; 'Chris Coleman' <ccoleman@platinum.ca>; 'Cliff Elle' <crelle@jrtwave.com>; 'Darryl and Valerie Carlson' <dcarlson@telus.net>; 'David Green' <fcss@pinchercreek.ca>; 'David Green' <sasci@telus.net>; DeCock, Stephen SCAN-UPS/U/CF <Stephen.DeCock@shell.com>; 'Dick and Stephanie Hardy' <sjhardy45@gmail.com>; 'Donna Zoller' <donnamsz@hotmail.com>; Fisher, Allison L SCAN-UPS/U/R <Allison.Fisher@shell.com>; 'Fraser Stewart' <castlestewarts@gmail.com>; 'Gary Mills' <gary2670@telus.net>; 'Gordon Petersen' <gordon@diomedea.com>; Grant, Deanna SCAN-UAS/E/CAON (Deanna.Grant@shell.com) <Deanna.Grant@shell.com>; Janet Casey <'JanetCasey'<janetcasey@jrtwave.com>>; Jennifer Lough aer <Jennifer.Lough@aer.ca>; 'Judy Huntley' <maycroft@telusplanet.net>; 'Karen Rendall' <rendall9@telus.net>; 'Kathy Day' <daykm4@gmail.com>; 'Kim and Patsy Hardy' <hardysafety@gmail.com>; 'Kim Barbero' <kim.barbero@toughcountry.net>; Kyra Dziedzic <Kyra.dziedzic@advisian.com>; 'Lee McClelland' <dlimccl@hotmail.com>; 'Leo Reedyk' <AdminDirOps@mdpinchercreek.ab.ca>; 'Lorraine Robbins' <robangus@jrtwave.com>; Molly <Minuk,MollySCAN-UPS/U/R<Molly.Minuk@shell.com>>; 'Murray and Susanne Kirby' <smbskirby@gmail.com>; 'Murray McFarland' <mmcfarland96@hotmail.com>; 'Nora Manners' <nmanners@watertonbiosphere.com>; Norma Fairbairn <NormaFairbairn<norma.fairbairn@gmail.com>>; 'Pat Anderson' <patandersonhorses@gmail.com>; 'Pat Neumann' <pat@pincherfire.com>; Patty Richards <patty.richards@shell.com>; 'Phil Hazelton' <hazeltonphilip4@gmail.com>; 'Phill Edmondson' <phil.edmondson@shaw.ca>; Platman, Jennifer SCAN-UAS/D/IP (jennifer.platman@shell.com) <Jennifer.Platman@shell.com>; Polvi, Steve SCAN-UPU/F/T <Steve.Polvi@shell.com>; 'Ron Schmidt'

<schmidtr@toughcountry.net>; 'Sarah Spranza ' <simmons@spranza.net>; 'Tara Cryderman' <AdminExecAsst@mdpincercreek.ab.ca>; Terry Gottenbos <Gottenbos,TerrySCAN-URU/L/CE<Terrance.Gottenbos@shell.com>>; 'Wendy Kay' <wkay@mdpincercreek.ab.ca>; 'Yvonne McNeely' <yvmcneely@yahoo.com>; 'Drew Rendall' <drendall@unb.ca>; Schmidt, Kristen SCAN-ERM/C <Kristen.Schmidt@shell.com>; Aspeslet, Thalia SCAN-ERD/A <Thalia.Aspeslet@shell.com>

**Subject:** WAG Email update

Hello folks!

- Hope all is well and your summer has been good. Please find below updates regarding some of the 2017 plans for the Waterton Complex. Also attached is the most recent Screwdriver Creek Valley air monitoring data newsletter.

If you have any questions or require more details, please feel free to contact me.

## **2017 Complex Turnaround**

- We completed the 2017 Waterton Complex Turnaround the first week of June.

## **Development**

- We have recently sent out the D56 consultation information to stakeholders in the Emergency Planning Zone for the WAT-61 and 10-7 wells pipeline installation in the Screw Driver Creek Valley proposed to replace the abandoned pipeline which serviced those wells in the past. An environmental assessment (EA) compliant with AER Information letter (IL) 93-09 will be completed this summer for the WT-61 pipeline. The EA will include a vegetation assessment, soil assessment, wildlife assessments, wetland assessment, and cumulative effects assessment.
- We will be moving forward this summer/fall with the installation of well-site H2S perimeter monitoring on two well sites in the Screw Driver Creek Valley. The monitoring system is similar to that at the WAT-68 well site.
- We will be moving forward this summer with consultation regarding the re-entry in 2018 of the Castle River 6-17 well. Shell previously constructed and drilled this well, although we could not produce it due to gravel and rocks in the well bore. We are planning to re-enter and sidetrack the well-bore with a screen to mitigate the rocks and produce the gas into existing infrastructure. No new footprint will be required for this application.

## **Environment/Groundwater**

- Earlier this year we installed six additional piezometers for ground water testing on properties approx. 4km directly east of the Waterton Complex as part of our ongoing Sulfolane groundwater monitoring program. We have successfully flow tested these wells and are currently awaiting the test results.
- Shell is working in coordination with the AER to enhance the Sulfolane ground water contamination mitigation program at Waterton.

- We reactivated our 2017 weed management plan starting in May. Weed picking crew, contract spraying and vegetation mowing teams are currently addressing weed issues throughout the Shell field on roads, leases and Pipeline right of ways.
- We continue with our ongoing monitoring of air, soil, groundwater and waste water as part of our Environmental Approval to Operate which is reported to the AER (Alberta Energy Regulator). The spring groundwater monitoring program is now completed and the second round of monitoring will continue in the fall.
- A liming program to mitigate sulphur dust impacts in soil will be completed in July.
- Interim reclamation for the pipeline integrity digs were completed in May and June.
- Foothills Stream Crossing Partnership inspections have been completed in June in the Castle and Carbondale and Corner Mountain areas of the field.
- As a continuation of Shell's commitments from the Waterton 68 Hearing, Shell has scheduled its annual monitoring of the Limber Pine Seedling Trial for late-August or early-September (weather dependent).

### **Pipeline Inspections**

- We have successfully executed our Russell Tool Lined Pipe Line inspections on the Carbondale pipeline system in May. We also completed the inspection of the existing pipeline we plan to produce into as part of the WAT-61 and 10-7 well reactivation. We will also be continuing our ongoing inspections of various pipelines throughout the Waterton field gathering system over the course of the year.
- We successfully completed the inspection of our Sour water injection pipeline in the south field as part of the Complex shut down inspection plan.
- We successfully completed all our planned pipeline integrity inspection digs in the south field during the plant outage in May.

### **Reclamation**

- We have received the reclamation certification on WAT-5 well site west of the Waterton Complex below Prairie Bluff along with WAT-21 well site and associated line heater and junction in Butcher Canyon. We will be moving forward with road reclamation to these sites starting with the access road to WAT-39 below Prairie Bluff in 2017. We will be working with stakeholders using some of our access roads that are listed for reclamation to ensure they are aware and have time to make necessary alternative access plans.
- We have recently received a reclamation certificate for WAT-4. This site is located on the north side of Prairie Bluff.
- We plan to move forward this year with the WAT-68 lease site interim reclamation in the Screw Driver Creek Valley.

### **Abandonment**

- Our plans to complete a downhole well abandonment at the CA-6-12 well site at the end of the 7 Gates road this summer have been postponed for 2017 and will be reevaluated in 2018.

### **Social Investment**

- We have some excellent opportunities to support our community in 2017. Although remaining funds are limited for the year applications can still be made with review scheduled on a quarterly basis. Following are some of the organizations Shell Waterton has supported to date in 2017.
  - Beauvais Lake Provincial Park Interpretive Program
  - Matthew Halton High School Awards

- Pincher Creek and District 4-H Scholarship and Training Fund
- Plain Eagle Youth Arts and Crafts program
- Group Group Youth Society of Pincher Creek
- Pincher Creek Watershed Group Blue weed Blitz
- Pincher Creek & District Agricultural Society
- Drywood Yarrow Watershed Group
- Kidsport Pincher Creek
- Twin Butte Community Hall Sign project
- Lundbreck Patton Park improvements

### General Information

- Shell continues to work with AEP (Alberta Environment and Parks) to understand any potential limitations, restrictions and mitigations when operating and developing within Parks boundaries. We will seek their feedback in road reclamation, amongst other potential work that can affect parks.
- The Waterton SEIA (Social Economic Impact Assessment) project is progressing. The intent of the project is to assess potential social and economic impacts to the area when Shell leaves. Public consultation will begin this fall through SASCI (Southern Alberta Sustainable Communities Initiative)
- We had our traffic management system in place starting mid May to manage Shell and public traffic for Shell activities using the 7 Gates Road in Screw Driver Creek Valley.
- Shell in conjunction with the MD of Pincher Creek has activated its dust control program at various other locations in the rural community.
- After 41 years working at the Shell Waterton Complex, 36 of those as a Shell employee I will be retiring later this fall. I'm happy to announce that Kristen Schmidt will be replacing me.

If you know of neighbors or friends who are interested in receiving these updates, or if you would like to unsubscribe please get in touch with Rod Sinclair through email at [rod.sinclair@shell.com](mailto:rod.sinclair@shell.com) or by phone at 403-627-7282. As always, if you have any questions, please do not hesitate to contact me. Talk to you soon.

**Rod Sinclair**

**Community Liaison Officer**

*My journey is not to arrive at my grave site rested and in a well preserved body.....but rather to skid in, jump off my horse and shout.....YAHOO.....what a ride!!*

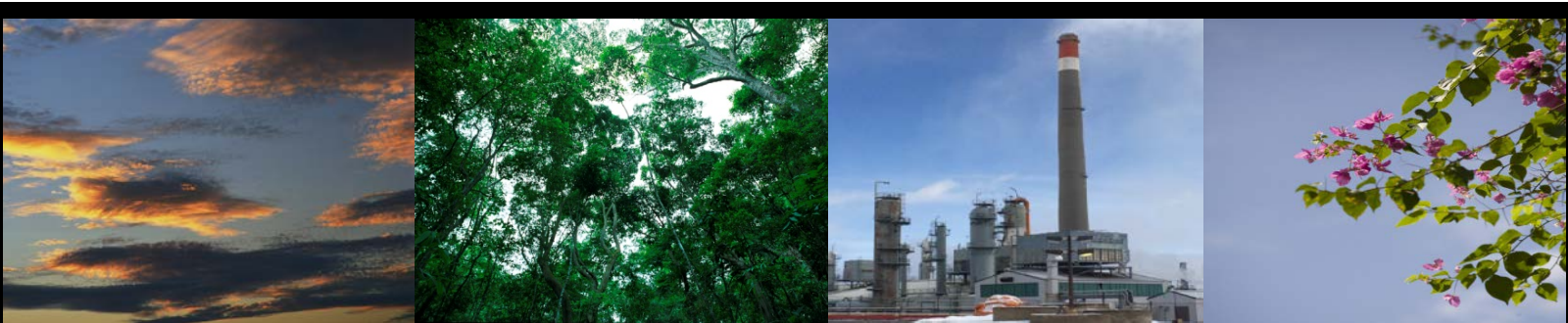
Shell Canada Energy

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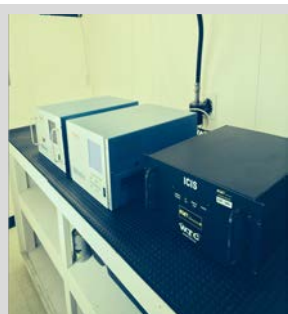
Shell Canada

## Screwdriver Creek Valley Air Quality Monitoring Station

### Data Summary Report July 2017

#### Background

In March, 2014, Shell established a continuous ambient air quality monitoring station in the Screwdriver Creek Valley area. The station is operated by AGAT Laboratories and continuously measures sulphur dioxide ( $\text{SO}_2$ ), hydrogen sulphide ( $\text{H}_2\text{S}$ ), wind speed, wind direction, and atmospheric temperature. A summary of the data from March 21, 2014 to May 31, 2017 is provided herein.



View of Analyzers from  
Inside the Station



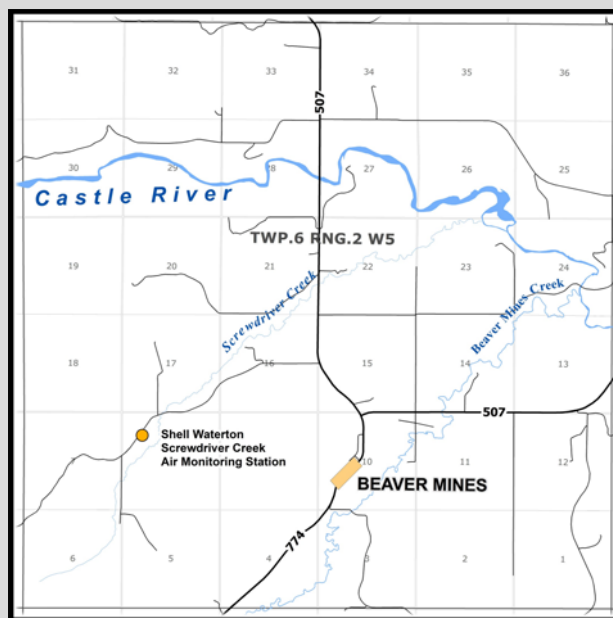
10 Meter Tall Station  
Meteorological Tower

#### Air Quality Data Summary

Measurements show that the maximum one-hour  $\text{SO}_2$  concentration of 7.6 ppb was well below the applicable Alberta Ambient Air Quality Objective (AAAQO) of 172 ppb. Measurements show that the maximum one-hour  $\text{H}_2\text{S}$  concentration of 5.7 ppb was less than the applicable AAAQO of 10 ppb. Graphs for  $\text{SO}_2$  and  $\text{H}_2\text{S}$  data are provided on the reverse.



Screwdriver Creek Valley  
Continuous Air Quality Monitoring Station

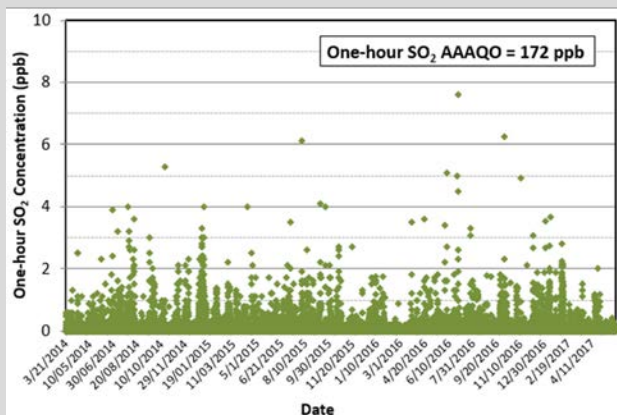


Location of the Screwdriver Creek Valley  
Continuous Air Quality Monitoring Station

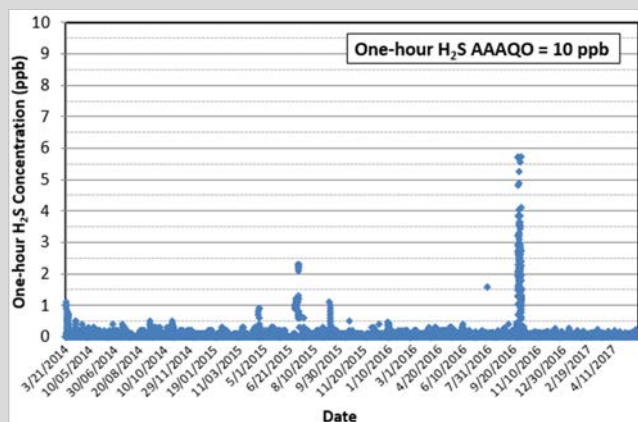
#### Meteorological Data Summary

During the data period, winds were primarily from the south-southwest, with hourly wind speeds ranging up to a maximum of 72 km/hr (20 m/s). Calm conditions (wind speeds of less than 1.8 km/hr or 0.5 m/s) were observed approximately 5 percent of the time. Ambient air temperatures over the data period are provided on the reverse.





**SO<sub>2</sub> Concentrations (Mar. 21, 2014 to May 31, 2017)**



**H<sub>2</sub>S Concentrations (Mar. 21, 2014 to May 31, 2017)**

## Data Access

Raw air quality data for the station are available real-time online via the website below. Tables or graphs can be viewed and exported in either Excel or PDF format.

<http://aqm.agatlabs.com/>

