

**CLEARWATER COUNTY COUNCIL AGENDA**  
**November 24, 2015**  
**9:00 A.M.**  
Council Chambers  
4340 – 47 Avenue, Rocky Mountain House AB

**9:05 A.M. Town of Rocky Mountain House: Kris Johnson, Director of Engineering & Operations - Wastewater Facility Update, 2015**

**9:25 A.M. Delegation: Greg Somers**

**9:35 A.M. RMH RCMP: Staff Sargeant Mark Groves and  
Clearwater County Highway Patrol: Sargeant Terri Miller**

**A. CALL TO ORDER**

**B. AGENDA ADOPTION**

**C. CONFIRMATION OF MINUTES**

1. November 10, 2015 Regular Meeting Minutes

**D. PUBLIC WORKS**

1. 9:05 A.M. Kris Johnson, Director of Engineering & Operations, Town of Rocky Mountain House – Wastewater Facility Update, 2015

**E. MUNICIPAL**

1. 9:25 A.M. Delegation: Greg Somers
2. Response to Letter From Parkland County
3. Alberta Land Institute – Land Use 2016 Conference
4. Cancellation of December 22 Regular Council Meeting
5. Invitation from Chamber of Commerce

**F. COMMUNITY & PROTECTIVE SERVICES**

1. 9:35 A.M. Staff Sargeant Mark Groves, RCMP Rocky Mountain House Detachment - Quarterly Statistics and Sargeant Terri Miller, Clearwater County Highway Patrol – 2015 Quarterly Report
2. Integration to Support Search and Rescue – Rocky Mountain House within the Clearwater County Community and Protective Services Division

**G. AG SERVICES & LANDCARE**

1. DRAFT Policy: Roadside Cleanup

**H. INFORMATION**

1. CAO's Report
2. Public Works Director's Report
3. Councillors' Verbal Report
4. Accounts Payable Listing
5. Councillors' Remuneration

**I. IN CAMERA\***

1. Legal

\* For discussions relating to and in accordance with: a) the Municipal Government Act, Section 197 (2) and b) the Freedom of Information and Protection of Privacy Act, Sections 21 (1)(ii); 24 (1)(a)(c) and (g); 25 (1)(c)iii; and 27 (1)(a)

**J. ADJOURNMENT**

***TABLED ITEMS***

<u>Date</u>	<u>Item, Reason and Status</u>
02/24/15	073/15 Invitation from Mayor's Office, Drayton Valley STATUS: Pending Information, Municipal



## AGENDA ITEM

<b>PROJECT:</b> Town of Rocky Mountain House, Wastewater Facility Update, 2015		
<b>PRESENTATION DATE:</b> November 24th, 2015		
<b>DEPARTMENT:</b> Public Works	<b>WRITTEN BY:</b> Kate Reglin/Kurt Magnus	<b>REVIEWED BY:</b> Marshall Morton
<b>BUDGET IMPLICATION:</b> <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b> Theme 2: Well Governed and Leading Organization	<b>PRIORITY AREA:</b> Objective – 2.6    Ensure timely compliance with statutory and regulatory obligations.	<b>STRATEGIES:</b> Ensure the County operates effective and efficient water and wastewater systems that meet or exceed Provincial requirements.
<b>ATTACHMENT(S):</b> Wastewater Treatment and Septage Receiving Station Report. Lagoon – Effluent CBOD Results		
<b>RECOMMENDATION:</b> That Council accepts this item as information.		

### BACKGROUND:

As Council may recall, so as to accommodate external hauling, Clearwater County, in the year 2013, approved funding the required upgrades to the Rocky Mountain House Wastewater Treatment Facility. The two main components of the required upgrades included additional aeration and the construction of an automated receiving station.

As part of the agreement, the Town of Rocky Mountain House is to provide an annual report regarding the operations of the wastewater facility.

Kris Johnson, Director of Engineering & Operations, with the Town of Rocky Mountain House, is here today to provide the Council of Clearwater County with a summary regarding the operations of the wastewater treatment facility.



# TOWN OF ROCKY MOUNTAIN HOUSE

<b>REPORT TITLE: Wastewater Treatment &amp; Septage Receiving Station – 2015 Q3 Update</b>			
<b>PRESENTER: Kris Johnson, P.Eng.</b> Director of Engineering & Operations		<b>FILE #: OP 2014/0026 (Wastewater Agreement)</b>	
<b>DEPARTMENT: Engineering &amp; Operations</b>		<b>AGENDA DATE: October 20, 2015</b>	
<b>DISCUSSIONS:</b>		<b>ATTACHMENTS:</b> • <b>CBOD Results - 2008 to Now</b>	
<b>APPROVALS:</b>			
_____		_____	
<b>Department Head</b>	<b>Date</b>	<b>CAO</b>	<b>Date</b>

## Conformance to existing laws and Town Council Plans:

Conforms with:	Yes/No/ Partial/NA	Comments:
Bylaws/Laws/Policies	NA	
Sustainability Plan	NA	
Council Strategic Plan/Priorities	Yes	This report is a requirement as per item 11.1 of the wastewater agreement between the Town and County.
Budget/Long Term Plans	NA	
Effects on future budgets	NA	
Regional Impacts	NA	

## Background/Introduction

As per item 11.1 of the Wastewater Agreement between the Town and County, “the Town will provide to the County a summary report of the lagoon operations, compliance, usage and capacity on a quarterly basis in the months of March, June, September and December.” It was mutually agreed upon that the report to council dates will occur in April, July, October and January to ensure all sample results for the quarter are received prior to reporting.

This report will focus on the wastewater treatment results measured in CBOD and the volume of bulk sewage received based on cubic metres received per month since the septage receiving station (SRS) opened on January 6, 2014.

### Definitions:

- BOD (Biochemical Oxygen Demand) - The amount of oxygen needed by aerobic microorganisms to decompose all the organic matter.
- CBOD (Carbonaceous Biochemical Oxygen Demand) - The amount of oxygen required to oxidize carbon containing matter present in water. A measurement of carbon matter contained in sewage effluent.



# TOWN OF ROCKY MOUNTAIN HOUSE

## Analysis:

### Wastewater Treatment Results

Attached is a graph showing the CBOD results from January 2008 to June 2015 for your reference. These same results are listed numerically in the table below. Note that the wastewater effluent shall have a CBOD of less than 25mg/L limit as per the Town's approval from Alberta Environment. Any results that exceeded this limit have been highlighted.

Table 1: Effluent Sample Results shown in CBOD (mg/L)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	AVE.
<b>2008</b>	15.3	28.0	41.5	27.0	21.0	14.5	16.2	10.8	7.9	6.1	12.0	14.3	<b>17.9</b>
<b>2009</b>	26.2	30.8	49.7	37.4	21.9	18.7	14.4	23.2	14.6	6.9	7.4	14.0	<b>22.1</b>
<b>2010</b>	22.4	32.9	32.5	24.7	18.4	14.7	12.4	11.3	10.7	11.5	13.3	16.4	<b>18.4</b>
<b>2011</b>	20.1	28.5	37.7	32.9	21.0	14.8	14.8	13.1	4.4	2.8	6.8	11.5	<b>17.4</b>
<b>2012</b>	13.7	19.4	12.3	15.9	17.3	9.9	14.8	12.3	8.7	4.5	8.3	13.8	<b>12.6</b>
<b>2013</b>	12.2	15.3	15.3	15.7	19.2	8.8	14.2	9.8	9.9	4.3	16.1	19.1	<b>13.3</b>
<b>2014</b>	19.1	13.9	15.7	15.7	15.3	12.0	13.2	5.5	2.6	2.7	6.2	11.7	<b>11.1</b>
<b>2015</b>	10.4	12.0	13.2	15.0	18.5	13.3	8.3	4.8	4.7				

The CBOD results increased in May and June but are still well below our approval requirement of 25 mg/L.

### SRS Sewage Volumes

Wastewater volumes received to date in 2015 along with volumes from 2014 are listed below:

Table 2: Sewage Volume Received at the SRS

	Volume (m <sup>3</sup> )	
	2014	2015
January	355.36	691.81
February	485.32	777.98
March	714.41	1,414.10
April	853.77	982.95
May	1,308.33	1,588.84
June	1,548.78	2,156.28
July	2,836.72	2,535.25
August	2,790.33	3,114.20
September	1,378.65	2,533.21
October	1827.92	
November	740.85	
December	805.24	
<b>TOTAL</b>	<b>15,645.68</b>	<b>16,794.62</b>



# TOWN OF ROCKY MOUNTAIN HOUSE

## Treatment Capacity

The fine bubble aeration system at the lagoon consists of the following components:

- 3 -100Hp blowers
- 22 in-water distribution laterals
- 245 aeration diffusers

The existing treatment capacity is outlined in the table below:

Volume (m <sup>3</sup> /day)	BOD Loading (kg/day)			Population	Bulk Volume (m <sup>3</sup> /year)
	Town	Bulk	TOTAL		
3,333	784	149	933	9,077	28,254

## Receiving Water Quality & Treatment Capacity Assessments

As per our current Wastewater Approval from Alberta Environment, which expires in March 2021, the Town is required to complete a Receiving Water Quality Assessment (RWQA) and a Treatment Capacity Assessment by March 2016. Draft assessment reports have been prepared and are expected to be finalized by the end of the year to meet this approval deadline.

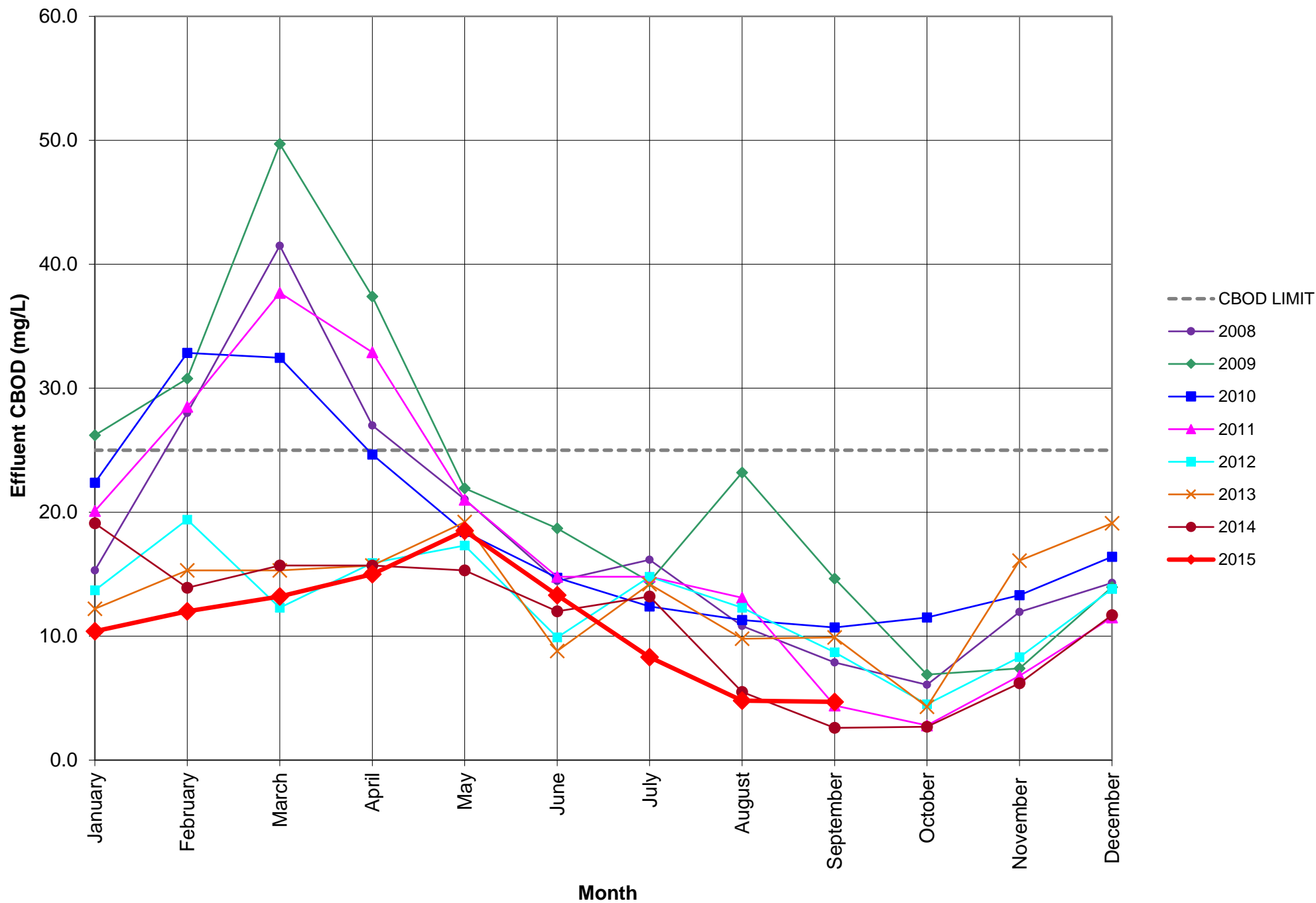
### **Recommendation:**

That Council accepts this report as information.

### **External Communications:**

Clearwater County - for their Council meeting on November 10, 2015

### Lagoon - Effluent CBOD Results





## AGENDA ITEM

<b>PROJECT:</b> Delegation – Mr. Greg Somers		
<b>PRESENTATION DATE:</b> November 24, 2015		
<b>DEPARTMENT:</b> Corporate Services	<b>WRITTEN BY:</b> Rudy Huisman	<b>REVIEWED BY:</b>
<b>BUDGET IMPLICATION:</b> <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite) Bylaw: _____ Policy: _____		
<b>STRATEGIC PLAN THEME:</b> Well Governed Leading Organization	<b>PRIORITY AREA:</b> Compliance Obligations	<b>STRATEGIES:</b> Build Community Trust
<b>ATTACHMENT(S):</b> None		
<b>RECOMMENDATION:</b> That Council receives the information as presented.		

### BACKGROUND:

Mr. Greg Somers of Clearwater County has requested an opportunity to appear before County Council to express his concerns about certain land use policies.

Mr. Somers has been allocated 10 minutes and is scheduled for 9:25 AM





## AGENDA ITEM

<b>PROJECT:</b> Response to letter from Parkland County		
<b>PRESENTATION DATE:</b> November 24, 2015		
<b>DEPARTMENT:</b> Corporate Services	<b>WRITTEN BY:</b> Rudy Huisman	<b>REVIEWED BY:</b> Ron Leaf
<b>BUDGET IMPLICATION:</b> <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite) Bylaw: _____ Policy: _____		
<b>STRATEGIC PLAN THEME:</b>	<b>PRIORITY AREA:</b>	<b>STRATEGIES:</b>
<b>ATTACHMENT(S):</b> Attachment 1: E-mail from Mayor Shalgec of Parkland County Attachment 2: Proposed letter to Premier Notley		
<b>RECOMMENDATION:</b> That Council considers whether it wishes to pursue the matter raised by Parkland County.		

### BACKGROUND:

On November 13, 2015 the County received an e-mail (Attachment 1) from Roy Shalgec, Parkland County Mayor asking municipalities to co-sign a letter to the Premier, (Attachment 2).

The letter was to be sent on November 16<sup>th</sup> in order to pre-empt the G20 meetings being attended by Federal and Provincial officials on November 19<sup>th</sup>. The logistics of bringing this item before Council in time to consider lending support were pretty much impossible. Staff checked with Parkland County on November 17<sup>th</sup> and the letter had indeed been sent on the 16<sup>th</sup> without any indication of endorsement from Clearwater County. Parkland County staff indicated that a second initiative was in the works and that Clearwater County would have an opportunity then if it so desired to participate.

Should Clearwater County Council wish to send a letter to the Premier staff recommend that Council request details regarding any proposed changes to the current coal-fired transition plan, including details on implementation timelines, any associated penalties, as well as impacts on municipal taxation and electrical rates.

## ATTACHMENT 1: E-mail from Mayor Shaigec of Parkland County

Colleagues,

I am attaching for your consideration, correspondence that a number of municipalities have agreed to send to Premier Notley. We have concerns about the impact the accelerated phase out will have on our local economies and the region's ability to remain competitive in the global market; we are asking the province to give due consideration to developing a balanced approach to their proposed phase out program.

If you are interested in attaching your name and municipality to this correspondence, please respond to my assistant, Dana.

We will require your electronic signatures and municipal logos immediately.

We are hoping to send this letter to the Premier by close of business on Monday, November 16th.

The text of the letter will also be included in the Edmonton Journal and Calgary Herald, at no cost to your municipality and would include the logos of the participating municipalities.

Here is some information regarding this matter that may be of interest:

- [Dial Down Coal – Dial Up Renewables](#)
- <http://www.transalta.com/about-us/coal-transition>

Rod Shaigec

Parkland County Mayor

**Dana Schlecker** | Executive Assistant to the CAO | Parkland County  
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## ATTACHMENT 2: Proposed letter to Premier Notley

DRAFT Letter to the Premier, Edmonton Journal, Calgary Herald, and community newspapers

In the communities we respectively serve as Mayors, there is rising concern with the Government of Alberta's policy platform to accelerate the phase out of coal-fired generating stations, and the impact this will have, not only in the Capital Region, but throughout the province. The government's climate change and renewable energy strategies will have significant consequences for the economy, jobs, communities and all of the citizens of Alberta. It is inevitable that consumers will be immeasurably impacted through higher electricity rates. These issues merit serious consideration by your government.

We recognize and support the need for progress on reducing greenhouse gas emissions; however, we feel a balanced and phased transition would have far less impact on the livelihoods of thousands of Albertans and their families.

Our communities also depend on tax revenues from Alberta's electricity sector, which pays for services in our communities – everything from social programs to infrastructure, as well as creating millions of dollars of economic spin-off. Electricity generators have also demonstrated strong corporate involvement by supporting community organizations, local social and recreational programs, and making significant investments in Aboriginal communities. These supports will likely be at risk.

While the impact on future investment in Alberta cannot be ignored, our concerns are more immediate. For many businesses throughout the province, the prospect of rapidly rising electricity costs in the face of uncertainty and a prolonged economic downturn may be an untimely trade-off.

There are solutions that achieve multiple objectives – environmental leadership, job protection, affordable and competitive electricity, and economic growth. There are many viewpoints on this, and all should be heard. The *Dial Down Coal-Dial Up Renewables* approach advanced by TransAlta, ATCO, and Maxim, is one alternative we encourage your government to consider. Thank you for your consideration.

Signed Mayors, etc.

Copy: Hon. Margaret McCuaig-Boyd, Minister, Energy  
Hon. Shannon Phillips, Minister, Environment and Parks  
Hon. Joe Ceci, Minister, Finance Minister  
Hon. Deron Bilous, Minister, Economic Development & Trade



## AGENDA ITEM

<b>PROJECT:</b> Alberta Land Institute – Land Use 2016 Conference		
<b>PRESENTATION DATE:</b> November 24, 2015		
<b>DEPARTMENT:</b> Municipal	<b>WRITTEN BY:</b> Tracy Haight	<b>REVIEWED BY:</b> Rudy Huisman
<b>BUDGET IMPLICATION:</b> <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b> Managing Our Growth	<b>PRIORITY AREA:</b> Plan for a well designed and built community.	<b>STRATEGIES:</b> 1.1.1 Ensure appropriate land use 1.1.2 Prepare statutory plans 1.1.3 Develop planning guidelines 1.1.4 Partner with stakeholders
<b>ATTACHMENT(S):</b> 1. Program Overview 2. Alberta Land Institute Annual Report 2014-15		
<b>RECOMMENDATION:</b> That Council authorizes Councillor(s) attendance at the Land Use 2016 Conference on May 4 and 5, 2016.		

### BACKGROUND:

Alberta Land Institute's (ALI's) *Land Use 2016 Conference* takes place in Edmonton May 4 and 5. The conference will bring together decision makers and researchers from Alberta and around the world to explore the theme of Regional Planning – how it influences the provision of ecosystem services, the use of agricultural land, and governance.

Three members of Council were authorized to attend the previous conference held in 2014.

## ALBERTA LAND INSTITUTE – LAND USE 2016

## PROGRAM OVERVIEW

May 4, 2016

Policy Stream 1:

**REGIONAL PLANNING FOR ECOSYSTEM GOODS & SERVICES**Plenary Session: **Regional Approach on Prioritization of Ecosystem Services***David Panell*Panel Discussion: **Ecosystem Services & Municipal Priorities***Michael Walters, Chris Manderson, Irena Creed*

Concurrent Session A:

**Conservation Offsets and Regulatory Mechanisms for Ecosystem Services***Peter Boxall, Brian Makowecki, Dave Poulton*

Concurrent Session B:

**Ecosystem Services, Science, and Municipal Risk Management***Shari Clare, Greg Goss, Guy Greenaway***Lunch**

Policy Stream 2:

**ALBERTA'S AGRICULTURE INDUSTRIES IN A CHANGING  
CONTEXT**

Plenary Session: **Land Use and Competing Demands in a Global  
Context**

*Andrew Plantinga*

Panel Discussion: **Demands, Pressures and Attitudes  
Surrounding Farmland in Alberta**

*Evan Davies, Brent Swallow, Ron McMullin*

Concurrent Session A:

**Agricultural Land Conversion in  
Alberta**

*Scott Jeffrey, Arturo Sánchez-  
Azofeifa, Jason Cathcart*

Concurrent Session B:

**Municipal Tools and  
Pressures on Land Use**

*Bev Dahlby, Bill Given, TBA*

**Wine & Cheese / Student Poster Competition**

May 5, 2016

<p>Policy Stream 3:</p> <p><b>GOVERNANCE &amp; REGIONAL PLANNING FOR SUSTAINABILITY</b></p>	
<p>Plenary Session: <b>Governance and Regional Planning</b></p> <p><i>TBA</i></p>	
<p>Panel Discussions: <b>Report Card on the Land Use Framework</b></p> <p><i>Craig Copeland, Morris Seiferling, TBA</i></p>	
<p>Concurrent Session A:</p> <p><b>Municipal Planning Within the Land Use Framework</b></p> <p><i>Sandeep Agrawal, Kevin Jones, Lars Hallstrom</i></p>	<p>Concurrent Session B:</p> <p><b>Thresholds in the Land Use Framework: The Science-Policy Linkage</b></p> <p><i>Dan Farr, Scott Milligan, TBA</i></p>
<p><b>Lunch</b></p>	

<p>Keynote Address: <b>To Be Announced</b></p>
<p>Conference Wrap Up</p>

MAY 4, 2016 - MORNING

## Policy Stream 1: **REGIONAL PLANNING FOR ECOSYSTEM GOODS & SERVICES**

Some of the goods and services that we value most come not from markets, but from our natural surroundings. From clean water to carbon sequestration, public recreation to flood mitigation, many benefits to society come from ecosystems, and the organisms they support. When the people who own these ecosystems are compensated for maintaining the benefits they provide, the product being sold is called an ‘ecosystem service’.

As concerns about ecosystem services become more common, questions arise. How do government boundaries and planning processes impact ecosystem services? How are municipalities responding to the need for ecosystem services planning? Can coordination between jurisdictions really work to mitigate floods, or purify water? How can priorities be set between different needs, in different areas?

This policy stream explores the importance of regional planning in supporting the provision of ecosystem services, with sessions addressing real-world examples from Alberta and abroad.

### Plenary Session: **Regional Approach on Prioritization of Ecosystem Services**

*David Panell*

Many jurisdictions around the world are striving to conserve or enhance the provision of ecosystem goods and services as part of their development plans. These services, provided by natural systems, include flood protection, water quality improvements, pollination, recreation and other benefits of natural capital. But how are priorities for the different environmental services being set? How is the provision of ecosystem services balanced with regional and municipal development objectives? What mechanisms are being used to provide ecosystem services and how are they being incorporated into regional planning?



This plenary presentation explores experiences from other jurisdictions that have prioritized ecosystem service provision and linked ecosystem service to regional planning, particularly in Australia. The lessons learned regarding the development of priorities and the implementation of mechanisms for the provision of ecosystem services will be highlighted and related to the Alberta situation.

Panel Discussion: **Ecosystem Services & Municipal Priorities**

*Michael Walters, Chris Manderson, Irena Creed*

The importance of ecosystem services is an integral part of municipal planning and land use. How do municipalities currently incorporate ecosystem services into their planning processes? What questions do municipalities have about utilizing ecosystem services to meet their planning objectives, and how can ecosystem services help them meet potential objectives?

Concurrent Session A: **Conservation Offsets and Regulatory Mechanisms for Ecosystem Services**

*Peter Boxall, Brian Makowecki, Dave Poulton*

Through regulations such as its newly-implemented Wetland Policy, the Government of Alberta is introducing conservation offsets as a strategy for sustainability. How does this system operate, what questions remain around its implementation and effectiveness, and what alternative systems might be considered in an Alberta context?

Concurrent Session B: **Ecosystem Services, Science, and Municipal Risk Management**

*Shari Clare, Greg Goss, Guy Greenaway*

Ecosystem services play an important role in mitigating certain risks faced by municipalities. For issues related to water, such as flooding and water quality, how can the presence of wetlands provide significant benefits for municipalities? How is research contributing to our understanding of these issues?

MAY 4, 2016 - AFTERNOON

Policy Stream 2: **ALBERTA'S AGRICULTURE INDUSTRIES IN A CHANGING CONTEXT**

Human development is creating new and unprecedented pressures on land use around the world. Statistics Canada has noted that Alberta is Canada's fastest-growing province, and this development that places pressure on 52 million acres of farmland, and the water that serves the province's agriculture. The resulting fragmentation and conversion of farmland, and the perceived need for new water management policies, represent a significant regional planning concern for the province.

How are new pressures on operations affecting farmers? How are Alberta's agricultural industries and irrigators responding to competing water demands? How are governments setting priorities, and creating policy that either addresses or contributes to this changing reality? How do people feel about the changes?

This policy stream examines how land use in Alberta is influenced by a changing context, and how regional planning could influence developments in irrigation, land conversion, and municipal growth policies.

Plenary Session: **Land Use and Competing Demands in a Global Context**

*Andrew Plantinga*

On a global scale, human development is causing land use change, impacting the ecosystem services. What are the forces affecting land use and ecosystem service provision? What policies can be used to address potential adverse outcomes or risks associated with these changes? How are policy makers balancing development with potential impacts on the landscapes which provide ecosystem services? How are they accommodating changes in available ecosystem services within their regions?

Panel Discussion: **Demands, Pressures and Attitudes Surrounding Farmland in Alberta**

*Evan Davies, Brent Swallow, Ron McMullin*

In Alberta, the pressures of development in the 'white zone' are more acutely noted in the agricultural industry. This panel explores specific pressures relating to the

conversion and fragmentation of Alberta's agricultural land, competing water demands for Alberta's irrigation sector, and public attitudes towards the changing agricultural environment.

Concurrent Session A: **Agricultural Land Conversion in Alberta**

*Scott Jeffrey, Arturo Sánchez-Azofeifa, Jason Cathcart*

It is commonly thought that agricultural land in Alberta is being fragmented or converted to non-agricultural uses on a wide scale. Across Alberta's white zone, how much agricultural land is being converted or fragmented, what factors might be influencing these changes, and what areas are seeing the greatest impact?

Concurrent Session B: **Municipal Tools and Pressures on Land Use**

*Bev Dahlby, Bill Given, TBA*

As municipalities face growing demands to generate revenue, the tools they use may contribute to the pressures placed upon surrounding landscapes. What tools in use by Alberta's municipalities contribute to fragmentation and conversion of agricultural land, and other impacts on the landscape, and what other options might municipalities have available to reduce any adverse impacts?

MAY 5, 2016 - MORNING

Policy Stream 3: **GOVERNANCE & REGIONAL PLANNING FOR SUSTAINABILITY**

In Alberta, expansive regional planning began with the development of the Land Use Framework, and the creation of the Alberta Land Stewardship Act in 2011. As that policy approaches its fifth year, many questions remain about how regional planning is conducted in the province, and how governance can continue to evolve to support sustainability.

How have international jurisdictions undertaken regional planning? How has the Land Use Framework performed to date? How is sustainability defined, and how might it be supported by municipal structures?

This policy stream considers real-world examples of how regional planning can be implemented effectively, and assesses the strengths and weaknesses of the pioneering land management policies adopted in the province of Alberta.

Plenary Session: **Governance and Regional Planning**

*TBA*

Regional planning has been undertaken in a variety of jurisdictions around the world. Drawing upon the experience of an individual closely involved in one such process, what practical lessons can be learned about governance and regional planning? What common challenges can be identified, and how might they be avoided? Can sustainable practices incorporated into this process?

Panel Discussion: **Report Card on the Land Use Framework**

*Craig Copeland, Morris Seiferling, TBA*

The Land Use Framework guides regional planning in Alberta. How successful has this framework been in promoting sustainable planning across the province? What concerns have been raised by municipal leaders, planners, and environmental advocates working within the framework? How might the framework be improved?

Concurrent Session A: **Municipal Planning Within the Land Use Framework**

*Sandeep Agrawal, Kevin Jones, Lars Hallstrom*

Municipalities in Alberta continue to plan individually or collectively, but must do so in accordance with the guidelines established in the Land Use Framework. How can planners working in the municipal context adhere to these guidelines while accommodating their needs, priorities, and obligations to citizens?

Concurrent Session B: **Thresholds in the Land Use Framework: The Science-Policy Linkage**

*Dan Farr, Scott Milligan, TBA*

The Land Use Framework sets out thresholds that must be avoided in a variety of areas, such as air quality, biodiversity and water quality thresholds. How have these thresholds been established? How can planners in Alberta understand these thresholds, and work to accommodate them within their regional plans?

MAY 5, 2016 - AFTERNOON

Keynote Address: **To Be Announced**



# ALBERTA LAND INSTITUTE ANNUAL REPORT 2014-2015

CONNECTING RESEARCH AND POLICY FOR BETTER LAND MANAGEMENT



UNIVERSITY OF ALBERTA  
Alberta Land Institute



# ALBERTA LAND INSTITUTE ANNUAL REPORT 2014-2015

CONNECTING RESEARCH AND POLICY FOR BETTER LAND MANAGEMENT

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## OUR STORY

More people are living in Alberta than ever before, and as they come here to build lives, raise families, and find futures, the landscape shifts around them.

Alberta is changing before our eyes. More people are living in the province than ever before, and as they come here to build lives, raise families, and find futures, the landscape shifts around them. Cities grow, land is repurposed, water is allocated, and governments create policy.

Sometimes the changes are almost unnoticeable, except to those paying closest attention to them. Sometimes they are obvious — when land that was farmed for a century gives way to a neighbourhood, where children might grow up without realizing what came before.

Is this a loss, or an evolution? When land changes, have we harmed our society, or gained a new future? Can policy help us keep what matters, or will policy force us to give up what's most important?

Answers cannot be purely objective. For each of us, the value of land in one form or another will be different. Some values are expressed through markets while in other cases markets cannot provide measures of the value of land uses. It is the business of governments,

duly elected and consulting with their people, to help determine the best ways forward. This often-complex process involves engaging stakeholders, input from independent science, and the processes of civil society. Embracing and balancing the diversity of thoughts, emotions, and ideals of Alberta's growing population is not a simple task. But at the Alberta Land Institute, we hope to make it just a little bit easier.

An effective land use policy making process should consider the available research evidence and the implications of different management choices. Introducing this knowledge into the policy process will assist leaders to make the best possible decision in the context of the many factors that must be considered.

Will a certain policy be effective? That decision must be taken in view of both its objective outcomes, and the reactions of those whom it will affect. To make a decision based on one factor, without understanding the other, can lead to greater confusion, and deeper division.

Objectively studying outcomes is



ALI's strength. We are an independent research institute, with an innovative and impartial investigative approach.

We know that research can only be truly objective when it is approached with a question — not with an answer already in mind.

We realize that academic research cannot answer every question, so we strive to address those issues where objective study can make the greatest contribution.

We understand that many difficult land use questions in Alberta — and beyond — do not confine themselves to the framework of a single academic field. Economic outcomes of policy options often depend on and affect environmental and social aspects.

At the same time, achieving environmental outcomes may have economic consequences. In most land use research questions, multiple disciplines will be involved, and in recognition of this, we seek researchers from different fields, often working in interdisciplinary teams.

We support our researchers both with funding, and with assistance in

securing additional research grants. We help facilitate consultation with experts and stakeholders. When our research teams are ready to report their findings, we share what they have learned with policymakers, stakeholders, and the public. They are entirely free to publish any of the research they conduct with our support, without interference.

Transferring knowledge to those who can make best use of it, and building research capacity so that more knowledge can be found, are essential parts of our mission. We do not lobby for any particular policy, but are dedicated to the active sharing of objective knowledge — outlining the consequences of alternative policies.

Land management is not simple — not in Alberta, not anywhere. As Albertans strive to make decisions that will shape this province's landscape for generations to come, ALI is proud to contribute an objective foundation for discussion, consensus, and decision-making.

At the Alberta Land Institute, we connect research with policy for better land management.

Research can only be truly objective when it is approached with a question – not with an answer already in mind.



## OUR AREAS OF STUDY

The Alberta Land Institute has turned its attention to four particular areas of study.

With thousands of new Albertans finding homes in the province — many within areas around or between Edmonton and Calgary — the province is experiencing countless kinds of change.

It is beyond the reach of any one institute to consider the full scope of this new reality, so the Alberta Land Institute has turned its attention to four particular areas of study.

These four areas are not independent of each other. In certain cases, research funded by ALI may address just one field, but in most instances, the research we support considers the interaction of two or more. The intersection of these themes is often where tension arises — between groups in society, between economic and environmental interests, or between jurisdictions.

These intersections also highlight the need for examination through multiple disciplines. The assessment of tradeoffs within or between sectors often requires linkages between social sciences, natural sciences, and engineering.

### Agriculture

Agriculture remains one of the pillars of Alberta's economy. However, much of the province's best farmland can be found in the corridor between Edmonton and Calgary — the same area where population growth has created the greatest demand for new homes.

The questions that arise are no secret to Albertans: are we losing our farmland? If improved efficiency and technology has opened new land to cultivation, how does that land compare to land that we were cultivating before?

Can policy prevent loss, and what could be the consequences if laws were passed to deny farmers their rights to modify their land use? Will the provision of ecosystem services, through projects like wetland restoration, provide new economic opportunities for farmers and land owners in the future?

### Water

Essential to life, agriculture, and industry, water is a resource of great importance — particularly in Alberta.

While a broad range of water management and conservation issues warrant research, the work we support focuses specifically on the importance of land use, and its impacts on water quality and quantity.

How can water policy related to irrigation influence industrial growth and community development in a place like southern Alberta — where water basins are fully allocated? Might the restoration of wetlands on agricultural land benefit watersheds — could floods be mitigated, or water purified?

### Municipal Development

As the population grows, so does the footprint of our cities. Many institutes have begun to consider urban development, so we direct our focus to questions surrounding the impact of these communities upon the land.

Does the growth of cities and towns in Alberta qualify as 'urban sprawl', or is that term even properly understood? Can improved municipal and regional planning protect some of Alberta's finest farmland and the ecosystem services it provides, and what might

the socio-economic consequences of such planning be for farmers, urban dwellers, and the public at large?

### Governance

Policy is central to all of ALI's research. Understanding how the decisions of government influence the use of land in Alberta is vital to helping shape the province's decisions for generations to come. While this policy consideration is often embedded within the examination of other subjects, it is sometimes necessary to look directly at the structure and process of government, and its impact on the making of policy.

How have individuals' property rights in Alberta been influenced by the implementation of the province's Land Use Framework? How does Alberta's property rights framework compare to that of other jurisdictions — are there lessons we can learn? Are municipalities positioned to collaborate on regional planning, and how do their individual objectives integrate with the Alberta Land Stewardship Act?

These four areas are not independent of each other. In most instances, the research we support considers the interaction of two or more.



# OUR ADVISORS

**Dr. Lorne Babiuk**  
O.C., SOM, PhD, DSc, FRSC

**Community Advisory Board Chair**

“The importance of impartial research into land use issues is greater than ever before.”

Alberta has seen great change in 2014-2015, with both the election of a new provincial government and continuing pressure on energy sector revenues influencing the economy. As new policies are developed within this evolving context, the importance of impartial research into land use issues is greater than ever before.

Conducting objective, academic research to inform policy is the mandate of the Alberta Land Institute, and I am pleased to continue in my role as the Chair of ALI’s Community Advisory Board. This board helps guide the Institute’s research efforts, making

certain that ALI undertakes studies on subjects relevant to the current policy environment. We also provide strategic advice, which I am pleased to note is reflected in the strategic plan outlined later in this report.

I would like to thank the highly-engaged and diverse members of our board for their service over the past year, and extend my appreciation to the many researchers who are participating in ALI-funded projects. Together, I believe we will continue to be highly successful in connecting research and policy for better land management, both here in Alberta, and beyond.

## Members of the ALI Community Advisory Board:

Throughout 2014-2015, ALI has greatly benefited from the contributions of these members of the Community Advisory Board:

Dr. Lorne Babiuk (Chair)

Mr. David Bissett

Mr. Rick Blackwood

Ms. Kelly Hall

Mr. Colin Jeffares

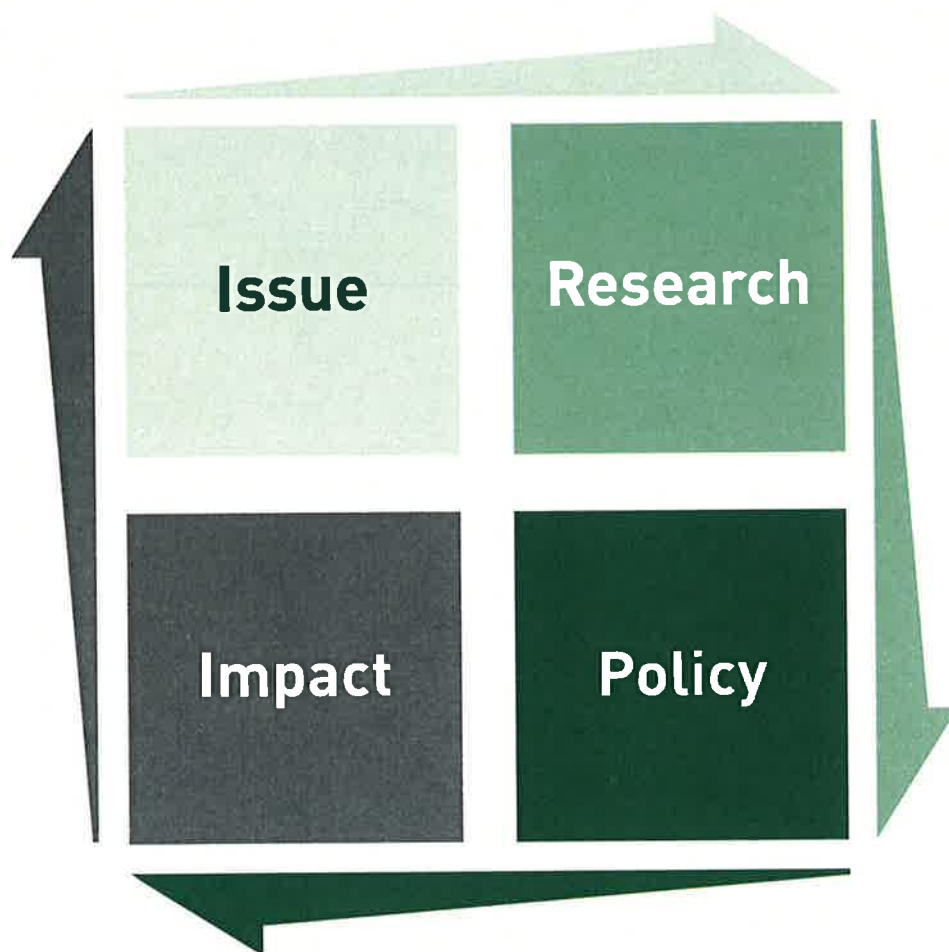
Dr. F.L. (Ted) Morton

Mr. Gerald Rhodes

Mr. Peter Woloshyn

Mr. Todd N. Zimmerling

In addition, **Mr. Mel E. Benson** and **Ms. Beverly Yee** concluded their work with the Community Advisory Board this year. We thank them both for their many contributions.



## Where can objective research make a difference?

Determining what land management issues might benefit from the attention of independent researchers can be a complex process. Sometimes, information on a subject is available, but decisions are being deferred for reasons that an academic study would do nothing to change. Sometimes, the nature of an issue means it would be best addressed in a non-academic manner.

In order to detect issues that would be beneficially informed by research, the Alberta Land Institute draws upon the expertise of its Community Advisory Board. The members of this board

provide ALI with input about emerging trends, and raise questions that are proving significant to land use in Alberta. This advice helps the Institute decide what subjects warrant study.

Once a suitable research question is posed, a call for proposals leads to research. The research findings are then connected to policy, and an assessment is made of the impact of that policy recommendation. The impact assessment often highlights additional questions and knowledge gaps, leading to new potential research.



## STRATEGIC PLAN: 2015-2018

### Brian Manning

CMC

Executive Director

“ALI’s research is strong and well-regarded by both stakeholders and government.”

The Alberta Land Institute’s first three-year strategic plan was launched in 2012. The following pages outline ALI’s new, 2015-2018 Strategic Plan.

Success for any research institute seeking to inform policy is heavily influenced by two closely-related factors: the quality of its research, and the robustness of its network. While ALI’s research is already strong and well-regarded by both stakeholders and government, this quality must be carefully maintained. Simultaneously, the strength of the Institute’s network must continually be improved.

The value of a strong network can be incalculable. Including stakeholders,

government contacts, media, and members of the public, a network can serve many functions, particularly when an institute seeks to inform policy. The Alberta Land Institute’s growing network will enhance its ability to connect research with policy for better land management, in a number of ways.

Perhaps the most obvious benefit of a network is the direct assistance it can provide in connecting research findings to policymakers. When findings are available and the Institute’s communications process begins, a strong network of stakeholders, media, and members of government can greatly improve the prospects of those results

reaching decision makers, and being treated as credible.

In addition, while direct relationships with policymakers can be vulnerable to elections, economics, and changes in policy, a strong network can offer a variety of avenues of approach, minimizing the possibility that research findings might be overlooked simply because they arrive at an inopportune moment. Indeed, as timing can be a key concern when dealing with policy, a strong network offers assistance in making certain ALI's research is relevant when conducted.

Being timely and relevant is vital to any research institute which seeks to influence policy, as it is necessary to speak to policymakers about issues of consequence to their jurisdictions. However, if efforts to be responsive are taken too far, an institute's attention can be divided across too many areas of focus, and its strategic direction can change with detrimental frequency. Striking the correct balance between timeliness and focus is vital, so ALI will remain consistently aware of issues of importance, while relying on a robust process for setting its research agenda, to make certain clear focus and direction are maintained.

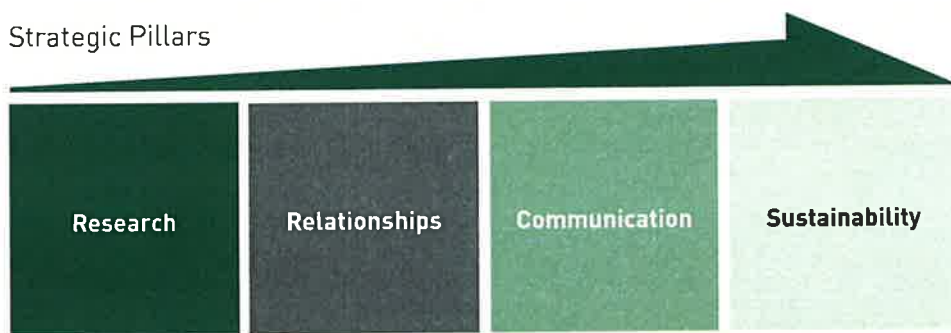
Here again, a strong network will prove useful: with effective connections to government and stakeholders, ALI will remain aware of upcoming issues, and will often have the opportunity to explore them before they reach the public eye. Employing innovative and academically-sound approaches, the Institute will have the opportunity for careful deliberation about which priorities to pursue.

As an independent institute, ALI depends almost entirely on external support (donors, funding agencies) both to operate and to fund research. Leveraging its network, and pursuing opportunities for fundraising partnerships within the University of Alberta, will be a vital and necessary element of the Institute's sustainability strategy in the coming years. By continuing to conduct research that is valuable to policymakers, the Institute also enhances its appeal to prospective donors and funding agencies interested in improved land use policy.

Given the importance of protecting the integrity of its research, and expanding its network, ALI's strategy for the coming years will rely upon the four pillars summarized on the following pages.

Success for any research institute seeking to inform policy is heavily influenced by two closely-related factors: the quality of its research, and the robustness of its network.

#### Strategic Pillars





## STRATEGIC PLAN: FOUR PILLARS

### Research

ALI will continue to emphasize the funding and completion of relevant research projects, selected through a flexible, integrated system, in order to demonstrate value to policymakers.

### Relationships

ALI will develop strong institutional relationships with individuals and organizations relevant to its research, and call upon those connections for advice and support as it carries out research, communicates research findings, and seeks to inform policy.

### Research

The completion of high-quality, impartial academic research remains central to the Alberta Land Institute's mission of informing policy. One of ALI's key strategic priorities must therefore continue to be the funding of research projects which contribute to the Institute's body of work, and demonstrate ALI's value to stakeholders, government, media, and potential supporters.

However, setting research targets is not a simple proposition. Research is risky. If there is no risk of failure to develop new learning from a project, then the effort is not truly research. As such, projects must be carefully selected, in sufficient numbers to increase the likelihood of relevant outcomes, but without over-extending the Institute's resources, or exceeding the grasp of its areas of study.

In support of this strategy, ALI's effective call for proposals system will continue to serve an important role. Flexibility within the call process will also be essential, to recruit researchers

with relevant qualifications and expertise, and the Institute will foster approaches to research that target the needs of the policy community. At the same time, ALI will continue to identify relevant policy issues by leveraging its network, and utilizing its integrated approach.

### Relationships

In order to continue strengthening its network, ALI will renew and deepen its focus on building relationships. Building upon existing connections with key stakeholders, the Institute will seek out new partners in areas connected to its research, as well as policymakers and members of the media.

This process will continue primarily in a bilateral fashion; representatives of ALI will strengthen and build connections with relevant organizations, at both a personal and institutional level.

These strong bilateral relationships may develop into multilateral networks, as potential synergies between some of ALI's partners become apparent. However, the aim of this relationship-





building will not be to simply create a series of groups; the Institute will seek strong and mutually-supportive engagements that benefit both institutions, and most importantly, positively contribute to the shaping of land use policy.

As these relationships strengthen and grow, the resources they provide — expertise, access to data, contacts in a given field, and so on — will benefit both ALI's operational ability, and its research. By making any resources available through its network to its projects, the Institute can potentially enhance the opportunities available to its researchers, benefiting their work, and the ability of their research to inform policy.

## Communication

A strong network thrives on the ability to exchange information with ease. In order to maintain strong connections with stakeholders, government, and the media, ALI will continue to enhance its existing platforms for two-way communication, both in

print and digital mediums. Enhanced efficiency and diversity will be sought, to allow communication to a variety of audiences at reduced cost.

With the platform in place, ALI will emphasize communication of research not just at project completion, but throughout the process (when appropriate from a research perspective). Timing of these communications must be flexible — able to respond to interest from government, stakeholders, or the press — while still allowing for research to be shared in a proactive fashion. Media relationships must be specifically cultivated, so that stories might be pitched at opportune times.

## Sustainability

Ongoing financial support from engaged donors and funding agencies is essential to ALI's future. Building upon a track record of successful project-based funding partnerships, the Institute will pursue a variety of new sources of operational revenue.

## Communication

ALI will utilize multiple communication platforms to exchange knowledge with its network, policymakers, stakeholders, media, and the public, in both a proactive and responsive fashion.

## Sustainability

ALI will seek new revenue sources and pursue new fundraising tactics, in order to continue to fund the costs of research associated with its operation.



## RESEARCH

**Dr. Vic Adamowicz**  
PHD

Research Director

“ALI must always consider the Governance perspective.”

Over the past three years, the Alberta Land Institute has funded research across its four broad areas of focus: Water, Agriculture, Governance, and Municipal Development. In these areas, our specialization lies in the interface between rural and urban land.

On the facing page, a matrix of ALI's research shows how our projects fit within our areas of study. Our multi-year projects encompass multiple areas of focus; our single-year projects usually emphasize just two. It is important to note that Governance is the area all our projects have in common. Because of our mandate to inform policy, ALI

must always consider the Governance perspective.

The pages that follow contain information about the projects ALI is currently funding. Future research will deepen our involvement in each of these areas, by either building upon past work, or exploring new subjects. For instance, our team recently conducted initial research into compensation for oil and gas disturbances on public grazing lease lands in Alberta. Work such as this identifies possible questions that may be addressed through academic research, through future calls for proposals.

## Research Advisory Committee

The Research Advisory Committee works with ALI's Research Director to ensure that projects funded by the Institute adhere to strong fundamental research principles — that they remain objective and impartial. These experts also help ALI frame questions that are appropriate for academic research, and provide support as the Institute selects projects during each call for proposals.

The present ALI Research Advisory Committee includes the following members:

**Dr. David S. Chanasyk**  
University of Alberta

**Dr. Don Flaten**  
University of Manitoba

**Dr. David Pannell**  
University of Western Australia

**Dr. Enid Slack**  
University of Toronto

## Research Projects

Since its inception in 2012, ALI has funded eight projects:

### Multi-Year Projects

- Alberta's Living Laboratory Wetlands Project
- Systems Modeling Sustainable Land and Water Policy in Alberta's Irrigation Sector
- Economic Evaluation of Farmland Conversion and Fragmentation in Alberta

### Single-Year Projects

- Urban Form, Land Use and Sustainability: Recommendations and Key Research Gaps

- Municipal Revenue Generation and Implications for Land Use and Environmental Quality
- Linking Environmental Goals with Business Risk Management Programs in Canadian Agriculture

### Completed Projects

- Assessing Property Rights and Land Use in Alberta
- Municipal Governance Reform and Land-Use Planning in Alberta

## Matrix: ALI Research Projects & Areas of Study





## MULTI-YEAR PROJECTS

### Alberta's Living Laboratory Wetlands Project

#### Principal Investigators:

Dr. Peter Boxall  
Dr. Irena Creed

#### Co-Investigator:

Dr. Shari Clare

#### Research Program Manager:

Stacey O'Malley

#### Areas of Study:

Water  
Agriculture  
Governance  
Municipal Development

#### Scheduled:

2013 – 2016

### Can We Restore Your Wetland?

The Alberta's Living Laboratory wetlands project is a multi-year, interdisciplinary research project examining the science and economics of wetland restoration in Alberta. This is a timely subject, because a new Wetland Policy is coming into force in the province, changing the replacement requirements for wetlands lost to development.

In the scientific sphere, the project is using some of the most advanced techniques available to create tools to predict the functions a wetland might provide if it is restored. Once wetlands are restored as part of the project, they will be studied on an ongoing basis, so that the accuracy of these tools' predictions can be assessed. Both the tools and the improved understanding that accompanies them will help inform policymakers and developers as they work with Alberta's new Wetland Policy.

At the same time, an economic study is being undertaken, examining the true cost of restoring wetlands on private land — including the cost of land

owner compensation. Using a 'market-based instrument', the research team will engage with land owners to set the price for restoration. By partnering with land owners, the project will develop a deeper understanding of the factors that influence the cost of wetland restoration, while also testing a system that might allow for more efficient use of wetland restoration budgets. This knowledge will be useful both for policymakers, and for those seeking to meet their restoration obligations under the new policy.

Through 2014-2015, work with remote sensing tools for the identification and analysis of wetland restoration sites has commenced. Promotion of the market based instrument — a reverse auction — amongst eligible land owners in the project area, Rocky View County, has also begun. The auction will take place in 2016.

For the most up-to-date information, visit: [albertalandinstitute.ca/wetlands](http://albertalandinstitute.ca/wetlands)



## Do We Have The Water We Need?

This three-year research project focuses on the opportunities and risks associated with irrigated agriculture in the province in the short- and long-term. The objective of the program is to identify the relationships between irrigated agriculture and economic, environmental, social, and policy factors. It also seeks to identify and assess the impacts of alternative policy options on the irrigation sector in the province over the next twenty-five years. This work is being conducted in several stages.

First, a variety of water management policy options are being identified through literature reviews, meetings with an advisory panel of stakeholders and policymakers, and the identification of cause-and-effect relationships between key economic, environmental and social factors. Identified options will then be evaluated using a systems model that simulates the potential near- and long-term economic, environmental and social impacts associated with the implementation of each option.

This analysis will be further supported by sub-projects relating to the environmental and economic impacts of various “what-if” scenarios, benefit-cost analysis, analysis of water- and land-use impacts, and analysis of risks and mitigation strategies. Taken together, these studies and the systems model built as part of the project will be of great use to policymakers engaged with the issue of water management in Alberta’s irrigated districts.

Through 2014-2015, members of the research team have conducted extensive lab and field research into factors such as crop growth and reservoir management practices, which will be included in their systems model. Construction of the model has also been substantially completed, with many of its elements now undergoing validation. The systems model will be completed in 2016.

For the most up-to-date information, visit: [albertalandinstitute.ca/irrigation](http://albertalandinstitute.ca/irrigation)

### Systems Modeling Sustainable Land and Water Policy in Alberta’s Irrigation Sector

#### Principal Investigators:

Dr. Evan Davies  
Dr. Miles Dyck

#### Co-Investigators:

Dr. Scott Jeffrey  
Dr. Feng Qiu  
Dr. Jim Unterschultz

#### Areas of Study:

Water  
Agriculture  
Governance

#### Scheduled:

2013 – 2016



## MULTI-YEAR PROJECTS

### Economic Evaluation of Farmland Conversion and Fragmentation in Alberta

Principal Investigators:  
Dr. Scott Jeffrey  
Dr. Brent Swallow

Co-Investigators:  
Dr. Feng Qiu  
Dr. Arturo Sánchez-Azofeifa

Areas of Study:  
Agriculture  
Governance  
Municipal Development

Scheduled:  
2013 – 2016

### How Much Land Are We Still Farming?

This three-year project focuses on the economics of fragmentation and conversion of agricultural land to non-agricultural uses in Alberta. The objective of the research is to assess and quantify the economic impacts and implications of land fragmentation and conversion for policy and planning.

To engage with this complex issue, the project team is conducting four related studies that focus either on the province as a whole, or on two areas within the province: the Capital Region around Edmonton, and the Highway 2 corridor linking Edmonton and Calgary.

The first study makes use of Geographic Information System (GIS) modeling and remote sensing analysis to identify patterns of land use and land use change over time, with the results informing the other projects.

The second study undertakes an economic analysis to identify factors (relating to both ownership and policy) that impact conversion in both the province as a whole, and in the specific study sites.

The third study uses statistical techniques to examine the economic relationships between conversion and a variety of influencing factors, including land values.

Finally, the fourth study defines and evaluates the public values associated with, and the public interest in, goods and services associated with the lands in the Capital Region.

Taken together, the results from the four studies will be used to identify how current policies impact the level and rate of conversion and fragmentation, and to identify policy and planning options that may assist in future management of fragmentation and conversion in Alberta.

Through 2014-2015, research in each of the four studies has been substantively completed. The findings will be assembled into a final report to ALI in 2016.

For more information, visit:  
[albertalandinstitute.ca/fragmentation](http://albertalandinstitute.ca/fragmentation)

# SINGLE-YEAR PROJECTS

## How Are Our Cities Growing?

Urban growth in Alberta has taken various forms, including downtown, inner-city, and exurban development. Most growth, however, has been suburban. A substantial literature exists on urban growth and its forms, most under the rubrics of 'urban sprawl' (focusing on its costs, causes, and remedies) and more recently, opportunities for 'smart growth'. What is missing is a systemic understanding of the growth of cities and towns in Alberta, and the reasons, context, and regulatory framework under which it has occurred.

It remains unclear what level of density, degree of mixed use, and access to transit are considered 'sustainable'. The effectiveness of taxation, development or congestion charges, and other economic and regulatory mechanisms geared towards fostering 'sustainable' growth is also uncertain.

This one-year project is developing a 'state of knowledge' report focusing on Alberta, which will identify criteria by which sustainable urban or suburban

growth can be evaluated. The report will clarify mechanisms to foster sustainable growth, and describe the key research gaps in understanding the benefits and costs of urban form.

Through 2014-2015, Principal Investigator Dr. Sandeep Agrawal (Director of the University of Alberta's Planning Program) has reviewed scholarly and grey literature, and conducted interviews with key personnel in this area. He has also assembled an advisory group of leading urban scholars and professionals from across the country. When members of this group visited Edmonton, they were made available for a public panel discussion (see page 21). This project's report will be delivered to ALI in November 2015.

For more information, visit:  
[albertalandinstitute.ca/urban-form](http://albertalandinstitute.ca/urban-form)

### Urban Form, Land Use and Sustainability: Recommendations and Key Research Gaps

Principal Investigator:  
Dr. Sandeep Agrawal

Areas of Study:  
Governance  
Municipal Development

Scheduled:  
2015

## SINGLE-YEAR PROJECTS

### Linking Environmental Goals with Business Risk Management Programs in Canadian Agriculture

Principal Investigators:  
Dr. James Rude

Co-Investigators:  
Dr. Alfons Weersink  
Dr. James Unterschultz  
Dr. Scott Jeffrey

Areas of Study:  
Agriculture  
Governance

Scheduled:  
2015

### Municipal Governance Reform and Land-Use Planning in Alberta

Principal Investigator:  
Dr. Lars Hallstrom

Areas of Study:  
Governance  
Municipal Development

Scheduled:  
Completed 2015

## What Could Cross-Compliance Mean For Our Farms?

Business Risk Management (BRM) programming began in 1958 in Alberta, as a way to stabilize farm incomes. Now, as new environmental, social, and economic goals emerge for the agricultural sector, suggestions have been made that these goals should be linked to BRM support.

In the Federal/Provincial policy framework *Going Forward II*, the possibility of 'cross-compliance' was raised in relation to the support program AgriInvest: individual provinces or territories "may require participants to comply with certain criteria before they are eligible to receive government contributions under AgriInvest." Those criteria were broadly defined to include

traceability, the environment, business development, and innovation.

Dr. James Rude leads this one year project to study global examples of this sort of cross-compliance in action. Reviewing regulations from the EU, the US, and Quebec, he is developing a conceptual model to produce simulations that can quantify the potential impact of hypothetical AgriInvest cross-compliance on farms.

This will allow him to examine implication of hypothetical AgriInvest cross-compliance on other support programs, budgetary implications, and the impacts on welfare of agents in the sector. For more information, visit: [albertalandinstitute.ca/cross-compliance](http://albertalandinstitute.ca/cross-compliance)

## How Well Do Our Land Management Plans Work?

This one-year research project examines how rural municipal governance in Alberta can be reformed to better support local ability to conform with the planning objectives set down by Alberta's Land Use Framework. The project assesses the current governance framework for land use planning in Alberta, and identifying potential gaps within Alberta's current land-use governance structure.

The researchers examine other jurisdictions' models for provincial-municipal relations and regional land use planning, and consider the relevance

of those models to the Alberta context. Finally, the researchers seek to identify what types of legislative or regulatory changes could assist in clearly defining the roles and responsibilities of all stakeholders involved in the ongoing implementation of Alberta's Land Use Framework.

*Note: this work was initiated before the announcement of changes to Alberta's Municipal Government Act.*

For more information, visit: [albertalandinstitute.ca/municipal-governance-reform](http://albertalandinstitute.ca/municipal-governance-reform)



## How Do City Revenue Strategies Alter Our Land Management?

Alberta's municipalities generate local revenue through residential and business property taxes, user fees for services, licensing, and a host of discretionary tax tools that include business taxes, special taxes and development-related levies. Concerns have been expressed about the adequacy of these revenue sources to meet municipal responsibilities and whether the current revenue sources have contributed to urban sprawl, land fragmentation and infrastructure duplication.

Nowhere is this more evident than in the Edmonton and Calgary metropolitan areas, where the expansion has resulted in tension between cities and their rural and small urban centre neighbours.

The research project explores the factors driving urban growth and whether municipal revenue sources

have affected development decisions within the rural-urban fringe in the Calgary and Edmonton metropolitan regions. It also reviews the experiences of other jurisdictions around municipal revenue generation, service provision, land use change, and environmental quality.

This research will improve the understanding about the impact of municipal revenue generation on land use and environmental quality among municipal officials, developers, and policymakers.

In May 2015, this project's findings were presented at the University of Calgary School of Public Policy's Urban Policy Symposium. The final report will be provided to ALI in November 2015.

For more information, visit: [albertalandinstitute.ca/municipal-revenue](http://albertalandinstitute.ca/municipal-revenue)

### Municipal Revenue Generation and Implications for Land Use and Environmental Quality

Principal Investigator:  
Dr. Bev Dahlby

Co-Investigators:  
Dr. Melville McMillan  
Brian Conger

Areas of Study:  
Governance  
Municipal Development

Scheduled:  
2015

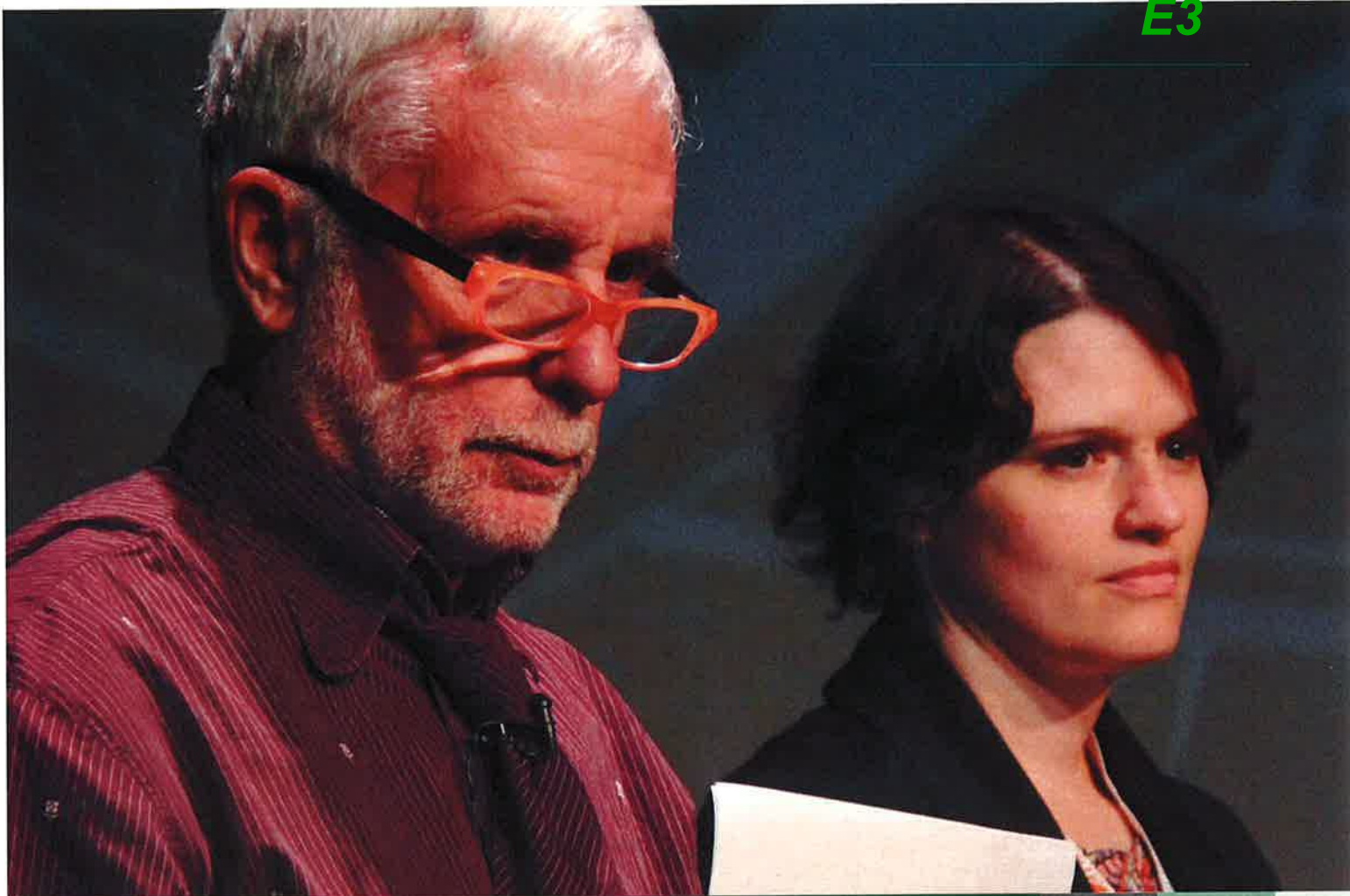
## Internal Projects

To determine whether a land use issue might yield questions suitable for further study, ALI's team sometimes conducts internal research. During the past year, the Institute has examined two issues which may form part of a future call for proposals.

An annually-updated natural capital account of Alberta's agricultural land could help the province determine how policy impacts the agricultural industry, and the economy. In the fall of 2014, ALI

held a workshop to determine whether interest in this tool would exist, and what research resources are available.

Through 2014-15, ALI explored the issue of compensation to public lands grazing leaseholders for oil and gas surface disturbances. Alberta's Auditor General also raised this matter in July 2015. After consultation with stakeholders and government in September 2015, ALI will determine whether to conduct additional research.



## PARTNERSHIPS

### Building Strong Partnerships to Inform Policy

*Above:*

Dr. Shari Clare, Co-Investigator with the *Alberta's Living Laboratory Wetlands Project*, presents at the Alberta Innovates Bio Solutions event *Impact Innovation 2015*. The event was hosted by writer and broadcaster Jay Ingram.

The influence of research is often dependent on how it is shared. Effective 'knowledge exchange' with relevant audiences (such as policymakers) can be conducted through a variety of channels, including traditional scholarly publications, conference presentations, public and stakeholder workshops, media stories, websites, and briefings.

The Alberta Land Institute utilizes all of these channels in its efforts to inform policy, and whenever possible, works with partners to magnify the efforts of this outreach.

By focusing on research questions that address the interface of urban

and rural issues in the 'white zone' of Alberta (populated areas not set aside for resource development), ALI occupies a unique position among Alberta's research entities. However, many connections exist between the Institute's work and research being conducted by other organizations, so whenever appropriate, ALI joins with these institutions to both fund projects, and to share findings.

This collaborative approach greatly enhances the Institute's ability to inform policy, and the ALI team will continue to build positive, effective partnerships in the years to come.

## Our Partners

Over the past year, ALI has worked closely with numerous partners to help fund research, exchange knowledge, and inform policy. We look forward to continuing our strong relationships with these and other organizations:

The University of Alberta

Western University

Alberta Innovates –  
Bio Solutions

Alberta Environment & Parks  
(Wetland Resiliency and  
Restoration Program)

Alberta Agriculture & Forestry

Rocky View County

City of Calgary

Ducks Unlimited Canada

Kule Institute for  
Advanced Study

City-Region Studies Centre

Fiera Biological

Max Bell Foundation

Capital Region Board



## Using partnerships to support knowledge exchange

Municipal development is one of ALI's four main areas of study, and with *Urban Form, Land Use and Sustainability: Recommendations and Key Research Gaps* (page 17) Dr. Sandeep Agrawal, (Director of the University of Alberta Planning Program) examines one aspect of that subject: the growth of cities.

As part of this one year ALI project Dr. Agrawal is developing a 'state of knowledge' report to help identify what researchers from across North America already 'know' about municipal growth. What criteria have been established to evaluate the growth of cities? Have the mechanisms that might support sustainable growth been defined? What research gaps currently exist around the subject of Alberta's urban growth?

When delivered in the fall of 2015, Dr. Agrawal's report will help frame new research questions which may form the basis of a future ALI call for proposals.

One essential part of Dr. Agrawal's research plan called for him to bring

together a group of experts in municipal planning and development from across North America, for sessions exploring the existing knowledge surrounding urban and suburban growth. Those meetings occurred in Edmonton in March 2015, and because it is rare for such a diverse group of experts to come together in one city, Dr. Agrawal proposed to make the most of the occasion.

Working in partnership with the City-Region Studies Centre (CRSC), the Kule Institute for Advanced Study (KIAS), and his own University of Alberta Planning Program, Dr. Agrawal coordinated a knowledge exchange event: a public forum at which all the assembled experts were able to take part in panel discussions, and take questions from the audience. The event was hosted at the Art Gallery of Alberta, as part of CRSC's Regional Planning Speakers Series, and was sold out.



## BUILDING CAPACITY

### Creating Valuable Opportunities for Student Researchers

**Above:**

Dareskedar Amsalu, a Masters student working on ALI's project *Systems Modeling Sustainable Land and Water Policy in Alberta's Irrigation Sector*, tours the Western Irrigation District with General Manager Erwin Braun.

The Alberta Land Institute focuses on research questions that will have significant implications for the future of the province, and the world. From the development of ecosystem services to the consequences of different types of urban planning on land use, the issues considered by ALI's projects will be important for generations.

Recognizing these long-term policy implications, the Institute strives to provide opportunities for students to work on its projects. During each ALI call for proposals, one criteria for the assessment of applications is the ways in which the a potential project

can contribute to 'building capacity' — how the research can help graduate students gain experience and expertise which will benefit them throughout their careers.

This emphasis on capacity building has already proved a great success. The Principle Investigators on all of ALI's projects are committed to providing opportunities for their students to participate in research, write and publish papers, and present their findings at conferences. These students benefit from their experience, and in the process, serve as ambassadors for ALI's research around the world.

## Our Students

Over the past year, ALI's research has benefited from the involvement of the following students:

Post-Doctoral Fellow  
Ali Ameli  
Francesco Accatino

PhD  
Mohamed Ammar  
Bijon Brown  
Njeri Mbajiorgu  
Xiaofeng Ruan  
Kai Wang

Masters  
Dareskedar Amsalu  
Angela Bentley  
Kaitlyn Cyr  
Darren Haarsma  
Marie-Ève Jean  
Anna Kauffman  
Saloni Salaria  
Kayla Stan  
Haoluan Wang  
Anna Waz

Undergraduate  
Alex Cebulski  
Lauren Corlett



## Graduate students help build a better model

Systems models produce sophisticated simulations to predict what might occur as a result of specific future circumstances. By helping decision makers understand potential benefits of challenges, such models can help inform policy. However, the accuracy of a model's projections depends heavily on how it is constructed — what factors are taken into account, how accurately they are represented, and what levers are provided to modify them.

The three-year ALI project *Systems Modeling Sustainable Land and Water Policy in Alberta's Irrigation Sector* (page 15) leverages the expertise of an expansive, multi-disciplinary team to build such a systems model. To date, seven graduate students have joined the project, including PhD candidate Mohamed Ammar, and Masters Student Marie-Ève Jean.

Mohamed has constructed a crop growth module within the larger systems model, with two vital features:

the ability to accurately simulate outcomes for a variety of crops in the Alberta context, and the capacity to extend those simulations over long periods of time. Existing Alberta models do not address those factors — they either use generic crop information, or only consider growth over a single season.

Marie-Ève went into the field to learn how southern Alberta's reservoirs are truly managed. Speaking with water managers, operators, and planners both in southern Alberta and with the provincial government, she gathered information which now enhances the model's accuracy in simulating reservoir management practices.

By integrating detailed, scientific, real-world data into the irrigation systems model, both Mohamed and Marie-Ève have made vital contributions to ALI's project, and gained valuable experience which will benefit their careers.



## ABOUT US

### OUR STAFF

**Brian Manning**  
Executive Director

**Vic Adamowicz**  
Research Director

**Susan Martin**  
Executive Assistant

**Quentin Lau**  
Research Associate

**Kenneth Tam**  
Communications Coordinator

### CONTACT US

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[albertalandinstitute@ualberta.ca](mailto:albertalandinstitute@ualberta.ca)  
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Interdisciplinary Science  
11455 Saskatchewan Drive  
University of Alberta  
Edmonton, AB, Canada, T6G 2E9



[www.albertalandinstitute.ca](http://www.albertalandinstitute.ca)



## AGENDA ITEM

<b>PROJECT:</b> Cancellation of December 22 Regular Council Meeting		
<b>PRESENTATION DATE:</b> November 24, 2015		
<b>DEPARTMENT:</b> Municipal	<b>WRITTEN BY:</b> Ron Leaf	<b>REVIEWED BY:</b> Ron Leaf
<b>BUDGET IMPLICATION:</b> <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input checked="" type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b>	<b>PRIORITY AREA:</b>	<b>STRATEGIES:</b>
<b>ATTACHMENT(S):</b> Excerpt – Procedural Bylaw #954		
<b>RECOMMENDATION:</b> That Council cancels the December 22, 2015 Regular Council Meeting.		

### BACKGROUND:

Council's Procedural Bylaw provides Council with the authority to change or cancel regularly scheduled Council meetings.

Council's second meeting in December is scheduled for December 22. It has been the practice of past Council's to cancel the second meeting date in December.

Should Council support the recommendation, the cancellation will be advertised in accordance with the Procedural Bylaw and Municipal Government Act (MGA).



Excerpts: Clearwater County Procedural Bylaw #954/12

*Council may, by Resolution, establish other regular Council meeting dates as may be required from time to time.*

*4.8 Council may change the date, time or place of a regularly scheduled meeting by a Two- Thirds Vote.*

*4.9 Notice of a change in date, time or place, of any meeting of Council will be provided at least 24 hours prior to the meeting to Councillors in accordance with the Act and to the public by:*

- a) posting a notice in the Clearwater County Administration Office; and*
- b) posting a notice on the Clearwater County website.*

*4.10 Council may cancel any meeting if notice is given in accordance with section 4.9.*



## AGENDA ITEM

<b>PROJECT:</b> Invitation from Chamber of Commerce		
<b>PRESENTATION DATE:</b> November 24, 2015		
<b>DEPARTMENT:</b> Municipal	<b>WRITTEN BY:</b> Tracy Haight	<b>REVIEWED BY:</b> Ron Leaf
<b>BUDGET IMPLICATION:</b> <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b> Well Governed and Leading Organization	<b>PRIORITY AREA:</b> Advocate in the best interests of our community and region	<b>STRATEGIES:</b> Actively seek opportunities to enhance relationships
<b>ATTACHMENT(S):</b> N/A		
<b>RECOMMENDATION:</b> That Council accepts the invitation from the Rocky Chamber of Commerce to attend the <i>Festival of Trees Sip &amp; Savour Taste Festivity</i> .		

### BACKGROUND:

Chamber of Commerce (COC), Serving Clearwater County and the Town of Rocky Mountain House, is sponsoring the *Festival of Trees Sip & Savour Taste Festivity* event on Thursday, November 26, 5:00 – 7:00 pm at the Lou Soppit Community Centre. COC has extended an invitation to Council and has provided two complimentary tickets for the event should a council member(s) wish to attend.

Staff request Council's direction regarding this invitation.



## AGENDA ITEM

<b>PROJECT: RCMP Delegation - Detachment Commander (RMH) and Clearwater County Highway Patrol Department</b>		
<b>PRESENTATION DATE: November 24, 2015</b>		
<b>DEPARTMENT:</b> Community & Protective Services	<b>WRITTEN BY:</b> Ted Hickey	<b>REVIEWED BY:</b> Ron Leaf
<b>BUDGET IMPLICATION:</b> <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b> Community Well-Being	<b>PRIORITY AREA:</b> Create a safer community	<b>STRATEGIES:</b> 3.2.1
<b>ATTACHMENT(S):</b>		
<b>RECOMMENDATION: That Council receives the information as presented.</b>		

### BACKGROUND:

S/SGT Mark Groves (RMH Detachment) RCMP will present the RCMP Rocky Mountain House Detachment Policing information (Quarterly Statistics).

SGT Terri Miller (Highway Patrol) will present department information for the Clearwater Highway Patrol.



## AGENDA ITEM

<b>PROJECT: Integration to Support Search and Rescue – Rocky Mountain House within the Clearwater County Community and Protective Services Division</b>		
<b>PRESENTATION DATE: November 24, 2015</b>		
<b>DEPARTMENT:</b> Community & Protective Services	<b>WRITTEN BY:</b> Ted Hickey	<b>REVIEWED BY:</b> Ron Leaf
<b>BUDGET IMPLICATION:</b> <input type="checkbox"/> N/A <input type="checkbox"/> Funded by Dept. <input checked="" type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b> Well Governed and Leading Organization Community Well-Being	<b>PRIORITY AREA:</b> Build community trust	<b>STRATEGIES:</b> 2.1.1 Proactive policy development and evaluation of municipal programs and services. 2.1.2 Fiscal management and reserve management strategy. 2.1.3 Complete an inventory of all County assets and liabilities, developing an operational plan to manage these resources, and assessing the value and need of all land holdings.; 3.1.1 – Safe Communities
<b>ATTACHMENT(S): Draft Memorandum of Understanding Agreement Between Clearwater County and Search and Rescue Rocky Mountain House</b>		
<b>RECOMMENDATION: That Council review and accept the Memorandum of Understanding and direct Administration to execute the MOU with Search and Rescue Rocky Mountain House and forward the operational and capital cost implications within the 2016 budget process.</b>		

### BACKGROUND:

Council received the Rocky Mountain House Search & Rescue (SAR–RMH) delegation on August 11, 2015. Council’s direction: “That Administration completes an analysis of SAR integration within Clearwater County CPS while ensuring SAR’s registered society status remains”.

This work has been completed with input from SAR and the attached DRAFT Memorandum of Understanding (MOU) is submitted for Council’s review, amendments and consideration. Should Council agree to proceed with the MOU the 2016 operational costs are anticipated to increase \$14,000 to a budget total of \$20,000. Capital support cost implications would be proposed within the 2016 budget process.

## MEMORANDUM OF UNDERSTANDING

BETWEEN:

**Clearwater County**

Box 550  
4340-47 Avenue  
Rocky Mountain House, Alberta  
T4T 1A4  
(Hereinafter referred to as 'County')

-and-

**Rocky Mountain House Search and Rescue**

Box 1888  
Rocky Mountain House, Alberta  
T4T 1B4  
(Hereinafter referred to as 'SAR')

**WHEREAS** SAR is one of the search and rescue teams in Alberta providing aid to tasking agencies in locating and rescuing lost, missing or injured persons, assisting in policing resource requirements such as evidence searches and assisting in resource requirements in areas of municipal emergency management and mitigation efforts;

**AND WHEREAS** the County recognizes the valuable contribution made to the health and community well-being to all Albertans by search and rescue teams operating in Alberta and the County is in agreement that the SAR is a valued response organization within the County;

**AND WHEREAS** the Parties have a mutual goal of a sustained approach in meeting community and various agency needs through the access of search and rescue capabilities in Alberta;

**AND WHEREAS** the County recognizes the desire of SAR to maintain its independent status as a non-profit society and as such donations and other funding acquired by SAR will be utilized towards SAR's operations, which may include both operating and capital funding;

**AND WHEREAS** the County recognizes the economic challenges faced by SAR in providing continued services to the community.

## MEMORANDUM OF UNDERSTANDING

**In respecting the above statements:**

1. SAR will maintain an independent Non Profit Society status within the Province of Alberta and as per applicable legislation, regulation and conditions unless mutually agreed upon by both Parties. SAR will provide an annual statement from Services Alberta indicating SAR's "good standing" status.
2. Both Parties will agree to SAR being considered "a department like entity" for budgetary and business related activities within the County's Division of Community and Protective Services. SAR will submit to the County for annual consideration, a business plan associated to an Operating and Capital budget for consideration.
3. SAR will report quarterly or as requested to the Director of Community and Protective Services regarding areas or activities of service provision, annual budgetary or other supporting resources financial status, or general business related activities to meet SAR related business needs and meet County requirements.
4. The County will annually review to confirm its ability to provide an annual contribution of funds and/or resources to assist SAR's operations in the same business/budgetary process as other departments within the County, which may include both operating and capital funding as approved annually by Clearwater County Council.
5. SAR is in agreement that SAR and its members shall follow any and all applicable Clearwater County policies and procedures as so long as these policies and procedures are not in direct conflict with SAR maintaining an independent Non Profit Society status within the Province of Alberta or conflict with maintaining its active support of policing operations or meeting policing requested resource commitment.
6. Both Parties shall work towards: a review of, confirmation of the mutual benefits of, ensure legal compliance of, and obtain each party's agreement to the transfers of capital assets from one party to the other party. This shall be completed within a two year period of the signing of this agreement.
7. The County shall continue to provide insurance coverage to SAR during the term of the agreement.

MEMORANDUM OF UNDERSTANDING

- 8. This MOU may be terminated by either participant upon ninety (90) days written notice. Termination does not release a participant from any present or pending financial, legal, or contractual obligations which accrued while the MOU was in force. Any and all assets held by each party at the time of termination shall remain those of the party having ownership of such assets at the time of termination.

IN WITNESS WHEREOF the Parties have executed this Memorandum of Understanding, this \_\_\_\_\_ day of \_\_\_\_\_, 2015.

**CLEARWATER COUNTY**

\_\_\_\_\_  
Ron Leaf, CAO

\_\_\_\_\_  
Patrick Alexander, Reeve

**ROCKY SEARCH AND RESCUE**

\_\_\_\_\_  
(Print Name)

President for and on behalf of  
Rocky Search and Rescue

\_\_\_\_\_  
(Print Name)

Vice President for and on behalf  
of Rocky Search and Rescue



## AGENDA ITEM

<b>PROJECT:</b> Draft Roadside Cleanup Policy		
<b>PRESENTATION DATE:</b> November 24, 2015		
<b>DEPARTMENT:</b> Ag Services & Landcare	<b>WRITTEN BY:</b> Matt Martinson	<b>REVIEWED BY:</b> Ron Leaf
<b>BUDGET IMPLICATION:</b> <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Funded by Dept. <input type="checkbox"/> Reallocation		
<b>LEGISLATIVE DIRECTION:</b> <input checked="" type="checkbox"/> None <input type="checkbox"/> Provincial Legislation (cite) <input type="checkbox"/> County Bylaw or Policy (cite)		
<b>STRATEGIC PLAN THEME:</b> Community Well-Being	<b>PRIORITY AREA:</b> Sustain recreational, cultural and quality of life needs	<b>STRATEGIES:</b>
<b>ATTACHMENT(S):</b> 1. Draft Roadside Cleanup Policy 2. 2015 List of Highway Cleanup Groups		
<b>RECOMMENDATION:</b> That Council approves the Roadside Cleanup Policy		

### BACKGROUND:

This spring Council directed Administration to review the Roadside Cleanup Policy. Recognizing the initial intent and development of the program was modeled after the Alberta Highway Cleanup Campaign, which focused on supporting youth and youth groups. Clearwater Administration are recommending a new policy that realigns the County's program with this original intent.

Administration believe that through increased advertising of the program to local youth groups that we will maintain or increase the number of applicants to the program while supporting a broad spectrum of youth activities. If Council chooses to approve the policy, administration recommends reviewing the policy and success of the program after two years of implementation to ensure the Roadside Cleanup Program is meeting Council's expectations.





**CLEARWATER COUNTY**  
*Roadside Cleanup Program*

POLICY

<b>EFFECTIVE DATE:</b> <b>REVISED DATE:</b>	November 24, 2015
<b>SECTION:</b>	<b>AGRICULTURAL SERVICES AND LANDCARE</b>
<b>POLICY STATEMENT:</b>	<p>The purpose of the Roadside Cleanup Program is to support local youth groups by providing funding to groups who volunteer their time to serve the community by cleaning up trash along Clearwater County Roadways.</p>
<b>DEFINITIONS:</b>	<p>For the purpose of this policy the following words and terms are defined as <b>Youth</b> – individuals between the ages of 7 and 17 years of age. <b>Not for profit</b> – a group who uses its surplus revenues to further achieve its purpose or mission. <b>Local Youth Group</b> – a club, association, team or group of organized youth who are active within Clearwater County or include membership who reside within the county and are considered formally or informally as not for profit.</p>
<b>PROCEDURE:</b> <b>Section 1. Process</b>  <b>Section 2. Applicant Selection</b>	<ol style="list-style-type: none"><li>1. Roadside Cleanup will take place yearly in the spring.</li><li>2. The program will be advertised encouraging youth groups to take part.</li><li>3. Applicants representing the group must be over 18 and have the ability to enter into an agreement on behalf of the group.</li></ol> <ol style="list-style-type: none"><li>1. <b>Successful applicants must be a local youth group or individual.</b></li><li>2. <b>Administration may deny an applicant that meets the criteria from section one if past performance related to safety or quality of work is poor or if the applicant has failed to return all personnel protective equipment and or signage during past participation in the program.</b></li></ol>



**CLEARWATER COUNTY**  
*Roadside Cleanup Program*

**Section 3. Funding**

- 1. The contribution rate will be set similar to the Alberta Highway Cleanup Campaign.**
- 2. After confirming the applicant has met all requirements, payment will be made within 30 days.**
- 3. Part or all of the funds may be withheld if the quality of service does not meet the program standards.**
- 4. Part or all of the funds may be withheld if the applicant fails to return all personnel protective equipment and or signage.**

**DRAFT**

**List of 2015 Highway Cleanup Groups (As of August 5, 2015)**

- 1<sup>st</sup> Caroline Scouts
- 1<sup>st</sup> RMH Pathfinder Unit (Girl Guides)
- 2016 Rocky Travel Club
- Arbutus Youth Baseball
- Caroline and District Volunteer Ambulance
- Caroline Malawi Mission Team
- Caroline Nazarene Church Youth Group
- Clearwater Foster Parent Association
- Cyan's Horse Camp
- David Thompson Europe Trip 2016
- Living Branches Community Church
- Living Faith Youth Group
- Native Youth Conference
- Nordegg Community Association
- O'Chiese Day Care
- ROAR
- Rocky Church Nazarene Argentina Mission
- Rocky Lions Club
- Rocky Museum
- Rocky South 4H Beef Club
- Salvation Army
- Stumblebum Drama Club
- The Rocky Arts and Recreation Centre

# Clearwater County

## Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member **P.A.T.ALEXANDER**.....

### Payment Periods

January	February	May	June
March	April	July	August
September	October	November	December

Supervision Rate – \$550.00 Monthly  
 Reeve Supervision Rate - \$850.00 Monthly

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
10/05/15	Tri-Council	X	X				74
10/08/15	Chamber luncheon	X					74
10/13/15	Council				X		74
10/15/15	NSWA Confrence Call	X					
10/15/15	Zone 2 Prep.		X				74
10/16/15	Zone 2 Red Deer	X	X	X			218
10/21/15	NSWA Edm.	X	X	X		X	398
10/22/15	Business Inovation	X	X				74
10/22/15	West Central Awards			X		X	
10/26/15	Reg Fire	X					74
10/27/15	Council				X		74
10/29/15	Legal Opinion	X	X				74
10/29/15	Airport Development Plan			X		X	
10/30/15	CREMA	X					74

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### Remuneration Calculation

<u>9</u>	Meetings @ \$156.00=	<u>1404.00</u>	<u>1282</u>	Kms @ \$0.55=	<u>705.10</u>
<u>10</u>	Meetings @ \$124.00=	<u>1240.00</u>	<u>3</u>	Lunch @ \$16.00=	<u>48.00</u>
<u>2</u>	Meetings @ \$283.00=	<u>566.00</u>			
	Supervision=	<u>850.00</u>			
	<b>TOTAL=</b>	<u>4060.00</u>		<b>TOTAL=</b>	<u>753.10</u>

# Clearwater County Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member .....Jim Duncan.....

### Payment Periods

<b>January</b>	<b>February</b>	<b>May</b>	<b>June</b>
<b>March</b>	<b>April</b>	<b>July</b>	<b>August</b>
<b>September</b>	<b><u>October</u></b>	<b>November</b>	<b>December</b>

**Supervision Rate – \$550.00 Monthly**  
**Reeve Supervision Rate - \$850.00 Monthly**

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
Oct 1	Prov. ASB conf call	X					
Oct 5	Arena tour Meet with Town	X					40
Oct 7	Landcare –Celebrating our Success	X	X				40
Oct 7	Rec Board	X					40
Oct 8	Bighorn Backcountry	X					40
Oct 13	Regular Council				X		40
Oct 14	FCSS	X					40
Oct 15	Digital Futures Conference	X	X				145
Oct 16	Digital Futures Conference	X	X				145
Oct 19	Speight Road Industry/County meeting	X					40
Oct 20	ASB Regional Conference	X	X				40
Oct 21	CCRC Committee meeting	X					40
Oct 22	Clearwater trails Initiative	X					40
Oct 27	Regular Council				X		40
Oct 28	FCSS meet Ombudsman	X					40

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## Remuneration Calculation

<u>16</u>	Meetings @ \$156.00=	<u>2496.00</u>	<u>905</u>	Kms @ \$0.55=	<u>497.75</u>
<u>5</u>	Meetings @ \$124.00=	<u>620.00</u>	<u>1</u>	Lunch @ \$16.00=	<u>16.00</u>
<u>2</u>	Meetings @ \$283.00=	<u>566.00</u>			
	Supervision=	<u>550.00</u>			
	<b>TOTAL=</b>	<u>4232.00</u>		<b>TOTAL=</b>	<u>513.75</u>

Signature {Councilor / Board Member} .....

*Jim Duncan*



# Clearwater County

## Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member

EARL GRAHAM

Payment Periods

January	February	May	June
March	April	July	August
September	October	November	December

**Supervision Rate – \$550.00 Monthly**  
**Reeve Supervision Rate - \$850.00 Monthly**

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
09/11/15	CATQUINN ROAD	✓					995
09/15/15	MPC	✓	✓				92
09/13/15	Council				✓		92
* 09/14/15	Westview Lodge						*
09/14/15	CAROLINE LIBRARY	✓					22
09/19/15	SPOG	✓					92
09/29/15	COUNCIL				✓		92
09/28/15	SPOG/BUDGET	✓	✓				90
09/29/15	LEGAL	✓	✓				92
09/30/15	CREMA	✓					92

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### Remuneration Calculation

1 Westview @ \$72	72.00				
7 Meetings @ \$156.00=	1092.00	859		Kms @ \$0.55=	472.45
3 Meetings @ \$124.00=	372.00	—		Lunch @ \$16.00=	—
2 Meetings @ \$283.00=	566.00				
Supervision=	550.00				
<b>TOTAL=</b>	<b>2652.00</b>			<b>TOTAL=</b>	<b>472.45</b>

Signature {Councilor / Board Member}

# Clearwater County

## Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member Kyle Greenwood.....

**Payment Periods**

January	February	May	June
March	April	<b>July</b>	August
September	October	November	December

**Supervision Rate – \$550.00 Monthly**  
**Reeve Supervision Rate - \$850.00 Monthly**

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
June 18	CWC- Strat. Plan (Caroline)						84
July 13	CWC- RDC Tour	X	X				15
July 14	CWC- Council				X		30
July 21	Rocky Air Show	X					30
July 28	CWC- Council				X		30

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### Remuneration Calculation

<u>2</u>	Meetings @ \$156.00=	<u>312.00</u>	<u>189</u>	Kms @ \$0.55=	<u>103.95</u>
<u>1</u>	Meetings @ \$124.00=	<u>124.00</u>	<u>0</u>	Lunch @ \$16.00=	<u>   </u>
<u>2</u>	Meetings @ \$283.00=	<u>566.00</u>			
	Supervision=	<u>550.00</u>			
	<b>TOTAL=</b>	<u>1552.00</u>		<b>TOTAL=</b>	<u>103.95</u>

**Signature {Councilor / Board Member}** Kyle Greenwood.....



# Clearwater County

## Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member Kyle Greenwood.....

Payment Periods

January                      February                      May                      June  
 March                      April                      July                      **August**  
 September                      October                      November                      December

**Supervision Rate – \$550.00 Monthly**  
**Reeve Supervision Rate - \$850.00 Monthly**

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
Aug. 8	CCHB @ Nordegg	X	X				210
Aug. 11	CWC- Council				X		30
Aug. 20	CWC- West Country Ag Tour	X					24
Aug. 24	West Fraser 60th Ann. @ Rocky	X					30
Aug. 25	CWC- Council				X		30

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### Remuneration Calculation

<u>3</u>	Meetings @ \$156.00=	<u>468.00</u>	<u>324</u>	Kms @ \$0.55=	<u>178.20</u>
<u>1</u>	Meetings @ \$124.00=	<u>124.00</u>	<u>0</u>	Lunch @ \$16.00=	<u>—</u>
<u>2</u>	Meetings @ \$283.00=	<u>566.00</u>			
	Supervision=	<u>550.00</u>			
	<b>TOTAL=</b>	<u>1708.00</u>		<b>TOTAL=</b>	<u>178.20</u>

Signature {Councilor / Board Member} Kyle Greenwood.....

# Clearwater County Councilor and Board Member Remuneration Statement For the Year of ...2015.....

Name of Councilor / Board Member Kyle Greenwood.....

### Payment Periods

January	February	May	June
March	April	July	August
<b>September</b>	October	November	December

Supervision Rate – \$550.00 Monthly  
Reeve Supervision Rate - \$850.00 Monthly

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
Sept. 8	CWC- Council				X		30
Sept. 9	CCPAC	X					30
Sept. 10	Parkland Reg. Library	X					160
Sept. 11	SPOG- Neighbour's Day, Sundre	X					118
Sept. 11	CWC- 30th Anniversary Lunch	X					
Sept. 16	Rocky Senior Housing Council*	*					*
Sept. 18	SRO	X					30
Sept. 21	CWC- A & P	X	X				30
Sept. 22	CWC- Council				X		30
Sept. 25	CWC- ASB	X					30

Westview

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## Remuneration Calculation

1	Westview @ 72.00 =	72.00			
4	Meetings @ \$156.00=	1092.00	458	Kms @ \$0.55=	251.90
1	Meetings @ \$124.00=	124.00	0	Lunch @ \$16.00=	-
2	Meetings @ \$283.00=	566.00			
	Supervision=	550.00			
	<b>TOTAL=</b>	<u>2404.00</u>		<b>TOTAL=</b>	<u>251.90</u>

Signature {Councilor / Board Member} Kyle Greenwood.....

# Clearwater County

## Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member ..... *Theresa Leary* .....

### Payment Periods

January

February

May

June

March

April

July

August

September 2015

October

November

December

Supervision Rate - \$550.00 Monthly  
Reeve Supervision Rate - \$850.00 Monthly

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
Sept 8/15	Library <sup>Personal</sup> (evening)	✓					14
Sept 8/15	Council				✓		14
Sept 9/15	Nadass C Ass	✓					19.5
Sept 10	MPC	✓	✓				14
Sept 21	ALP	✓	✓				14
Sept 27	Council				✓		14
Sept 23	PAM 2	✓					16.7
Sept 18	Library Personal	✓	✓				14

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### Remuneration Calculation

<u>6</u>	Meetings @ \$156.00=	<u>936.00</u>	<u>446</u>	Kms @ \$0.55=	<u>245.30</u>
<u>3</u>	Meetings @ \$124.00=	<u>372.00</u>		Lunch @ \$16.00=	<u>          </u>
<u>2</u>	Meetings @ \$283.00=	<u>566.00</u>			
	Supervision=	<u>550.00</u>			
	<b>TOTAL=</b>	<u>2424.00</u>		<b>TOTAL=</b>	<u>245.30</u>

Signature {Councilor / Board Member} ..... *T. Leary* .....

# Clearwater County Councilor and Board Member Remuneration Statement

For the Year of ...2015.....

Name of Councilor / Board Member ..... Curt Maki .....

Payment Periods

January	February	May	June
March	April	July	August
September	October	November	December

Supervision Rate – \$550.00 Monthly  
Reeve Supervision Rate - \$850.00 Monthly

Date	Type of Meeting Attended	First 4 Hours \$156.00	Next 4 Hours \$124.00	Next 4 Hours \$124.00	Regular Council Meeting \$283.00	Lunch \$16.00	Mileage @ \$0.55 / km
Oct 5	Arena	✓					70
Oct 8	DT Awards	✓					—
Oct 13	Council				✓		70
Oct 15	CFCA	✓					110
Oct 16	Zone 2 Meeting	✓	✓				85
Oct 27	Council				✓		70
Oct 29	Legal Session	✓	✓				70

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## Remuneration Calculation

<u>5</u>	Meetings @ \$156.00=	<u>780.00</u>	<u>475</u>	Kms @ \$0.55=	<u>261.25</u>
<u>2</u>	Meetings @ \$124.00=	<u>248.00</u>	<u>8</u>	Lunch @ \$16.00=	<u>     </u>
<u>2</u>	Meetings @ \$283.00=	<u>566.00</u>			
	Supervision=	<u>550.00</u>			
	<b>TOTAL=</b>	<u>2144.00</u>		<b>TOTAL=</b>	<u>261.25</u>

Signature {Councilor / Board Member} ..... Curt Maki .....