



PEACE RIVER REGIONAL DISTRICT
Rural Budgets Administration Committee Meeting

A G E N D A

10:00 a.m., Thursday, January 15, 2015
at the Regional District Office Boardroom, 1981 Alaska Avenue, Dawson Creek, BC

1. **CALL TO ORDER:** *Director Sperling to Chair Meeting*
2. **DIRECTORS' NOTICE OF NEW BUSINESS:**
3. **ADOPTION OF AGENDA:**
4. **MINUTES:**
M-1 Rural Budgets Administration Committee Meeting Minutes of December 18, 2014.
5. **BUSINESS ARISING FROM THE MINUTES:**
6. **DELEGATIONS:**
10:00am D-1 Reg Whiten – Moberly Lake Community Association
re: Moberly Lake Watershed Stewardship Strategy (Phase 1) Implementation
7. **CORRESPONDENCE:**
8. **REPORTS:**
R-1 Elected Officials – Benefits, Coverage with Great West Life.
9. **NEW BUSINESS:**
10. **ADJOURNMENT:**

RURAL BUDGETS ADMINISTRATION COMMITTEE MEETING MINUTES

January 15, 2015

ADOPTION OF AGENDA: continued

4. MINUTES:
 - M-1 Rural Budgets Administration Committee Meeting Minutes of November 20, 2014.
 - M-2 Rural Budgets Administration Committee Meeting Minutes of November 27, 2014.
5. BUSINESS ARISING FROM THE MINUTES:
6. DELEGATIONS:
 - 10:00am D-1 Andy Waddell - Dawson Creek Sportsman Club regarding an indoor range.
7. CORRESPONDENCE:
 - C-1 November 21, 2014 email from the Peace River Regional Cattlemen's Association providing information regarding the Livestock Protection Program.
 - C-2 November 20, 2014 correspondence from Gordon Johnsen, Building Inspector, providing an update on status of repairs at the Clearview Arena.
 - C-3 Thank you from Brittany Andres for the Electoral Area E West Bursary.
 - C-4 Thank you from Sara Norris for an Electoral Area E West Bursary.
8. REPORTS:
 - R-1 North Pease Seniors Housing Society
 - a) December 5, 2014 report from Kim Frech regarding funding.
 - b) Background (information that was on the October and the November RBAC Agendas)
 - R-2 Financial Report – November 2014
9. NEW BUSINESS:
 - NB-1 Federation of Canadian Municipalities (FCM) 2015-2016 membership fees
10. ADJOURNMENT:

CARRIED.

ADOPTION OF MINUTES:

M-1
November 20, 2014
RBAC Minutes

ADOPTION OF MINUTES
MOVED by Director Hiebert, SECONDED by Director Rose,
That the Rural Budgets Administration Committee Meeting Minutes of November 20, 2014 be adopted.

CARRIED.

M-2
November 27, 2014
RBAC Minutes

MOVED by Director Hiebert, SECONDED by Director Rose,
That the Rural Budgets Administration Committee Meeting Minutes of November 27, 2014 be adopted.

CARRIED.

CORRESPONDENCE:

C-1
Peace River Regional
Cattlemen's
Association

MOVED by Director Hiebert, SECONDED by Director Rose,
That Staff contact the Peace River Cattlemen's Association to request information regarding the specific number of claims, under the Livestock Protection Program, that have been submitted from each area.

CARRIED.

REPORTS:

R-1
North Peace Seniors
Housing

MOVED by Director Sperling, SECONDED by Director Goodings,
That the Rural Budgets Administration Committee approve an Electoral Area B Fair Share commitment of \$250,000 (25 units at \$10,000 each) and an Electoral Area C Fair Share commitment of \$250,000 (25 units at \$10,000 each) for a total commitment of \$500,000 to go toward Phase 2 of the North Peace Care Centre in Fort St. John; further, that the funding be conditional on receipt of: a) a report with confirmation all other capital funding is secured; and b) a five year operational budget with funding confirmation.

CARRIED.

R-2
Financial Report –
November 2014

The November 2014 Financial Report was reviewed. Comments were as follows:

- Staff will provide an update on the North Peace 4-H Club

MOVED by Director Goodings, SECONDED by Director Hiebert,
That the remaining Grant-in-Aid funds of \$182.13 for the Cache Creek Community Club be written off as its projects are complete.

CARRIED.

MOVED by Director Goodings, SECONDED by Director Hiebert,
That the Fair Share commitment to the North Peace Fall Fair Society be reduced by \$30,000 as the Society received Northern Development Initiative funding.

CARRIED.

MOVED by Director Rose, SECONDED by Director Sperling,
That the \$10,000 Fair Share commitment toward the Bissett Creek Riparian Mitigation be withdrawn due to the change in the scope of work.

CARRIED.

NEW BUSINESS:

NB-1
FCM

MOVED by Director Rose, SECONDED by Director Sperling,
That the Rural Budgets Administration Committee approve payment of \$3,504.34 from the Legislative Electoral Areas Budget – Membership, to the Federation of Canadian Municipalities for membership fees and travel fund, for the period of April 2015 to March 2016.

CARRIED.

DELEGATIONS: (continued)

D-1
Dawson Creek
Sportsmans Club

MOVED by Director Hiebert, SECONDED by Director Sperling,
That the funding request from the Dawson Creek Sportsmans Club be referred to the
next Rural Budgets Administration Committee meeting, to allow time for Staff to request
a business plan and the following information from the Sportsmans Club:

- what are the Club's projections in terms of increased membership;
- are they pursuing different groups;
- does the indoor facility meet competition criteria;
- what is the number of restricted fire arm users;
- how often do the RCMP use the facilities; and
- do the RCMP provide any funding to the Club.

CARRIED.

ADJOURNMENT

MOVED by Director Hiebert, SECONDED by Director Rose,
That the meeting adjourn.

CARRIED.

The meeting adjourned at 12:55 p.m.

Director Goodings, Meeting Chair

Diana Mitchell, Recording Secretary



InterraPlan Inc
Moberly Lake, BC

**Moberly Lake Community
Association**

Box 74 Moberly Lake BC

**Submission to
Peace River Regional
District
Development Services**



Moberly Lake Watershed Stewardship Strategy (Phase I) Implementation

1.0 APPLICANT INFORMATION

Project Partners: Moberly Lake Community Association, Sauteau First Nations, West Moberly First Nations; Peace River Regional District, BC Forestry Lands & Natural Resource Operations

Postal Address/Street Address: P.O. Box 74 , Moberly Lake, B.C.

1) MLCA Liaison:

Stu Garland,
Directors, Moberly Lake Community Association
Tel: 250-788-2432

Watershed Working Group Representatives: Andy/Chris Teslyk, Elmer Kabush, Ian Campbell, Bryan Smith,

2) Project Consultant:

Reg Whiten, B.Sc.Agr, M.Env.Des P.Ag MCIP (interraplan@uniserve.com)
InterraPlan Inc., Moberly Lake
(Project Design & Implementation)
Tel: 250-788-9635

1.1 Organization Legal Name: Moberly Lake Community Association Society (MCA)

The MLCA is a non-profit society committed to the well-being of residents in the Moberly Lake area. Since its inception in the 1970's and later incorporation in 1992, the Association has succeeded in working towards the development of community facilities (firehall, community hall), infrastructure, and maintaining various social functions.

Over the past decade, the MLCA has been active in monitoring water quality under the province's volunteer sampling program. Four years ago, a Watershed Committee was formed to consider other water-related issues, and in early 2000 this resulted in a community planning exercises to identify the range of water supply and management concerns. Key issues being addressed from that work include feasibility for development and water supply/sewer system (north and south shore), ongoing water quality monitoring, and community watershed planning (see attached).

1.2 Background

In partnership with the West Moberly and Sauteau First Nations, the MLCA has been actively working towards stewardship of Moberly Lake and watershed over the past 20 years. This work has included baseline Water Quality assessment in collaboration with the BC Volunteer Lake Stewardship Program with data collected between 1999 and 2003. Other activities included public education and community watershed planning resulting in a draft Watershed Stewardship Strategy (2007). Other concerns about Lake and watershed stewardship relate to i) increased shoreline clearing for private lot development ii) expanding upland development (Mountain Pine

Beetle Clearing, Wind Development) which was given attention by major natural events from the 20011 flood and Mt.McAllistair fire 2014 respectively.

Potable water and waste-water management at the Lake has been a growing focus for the community and given impetus as an issue following a report by the Northern Health Authority in its Water and Sewer Survey (2001) which evaluated the majority of private properties and both First Nations infrastructure. A principal recommendation was to develop a potable supply in the form of a truck hauling facility and options for improved waste-water management such as a partnership for septic removal and disposal with First Nation facilities or a community-based system. The latter option was explored and the proposed pipeline disposal system was proven to be cost-prohibitive for residents and rate-payers given existing investments in property septic systems. More recently, region-wide discussions have been undertaken by the PRRD in response to new federal regulations on waste monitoring and reporting for municipal waste systems (Fort St.John, Dawson Creek and Chetwynd) due to the growing incidence of unreported industry contaminants in those systems. Many rural residents, including residents at Moberly Lake wish to explore further options for addressing residential waste management needs that are appropriate in scale and cost for meeting community objectives.

1.2 Project Objectives

This proposal is aimed at furthering the MLCA's environmental & land-use management capacity in three target areas:

- a) undertake update and finalize the Moberly Watershed Stewardship Strategy (2008) that includes research and identification of water management issues, environmental mitigation options, and management actions for protecting key domestic water supply areas surrounding Moberly Lake, and for providing a foundation for Moberly First Nations Water Source Protection Plan specific to each community;
- b) undertaking baseline water quality data reviewing and sampling for standard bacteriological, chemical and physical indicators
- c) assess shoreline riparian conditions to determine compliance with PRRD's Lakeshore Development Guidelines and a foundation for reviewing current Lake Classification Status
- d) support partnership-building and negotiation for residential water supply development (potable, truck hauling) and waste-water disposal for residents of both the north- and south-shore of Moberly Lake including a potential partnership agreement with either or both the WM/S First Nations ;
- e) facilitating continued public awareness and education of Lake residents on practical environmental stewardship techniques in support of current West Peace OCP to distinguish Moberly Lake area and input to Plan development related to Lakeshore Development Guidelines; septic system/bulk water supply options, surface/groundwater well protection maintenance, shoreline protection and restoration, preferred land-use zoning, development permit areas, environmental sensitivities and other social/economic objectives;

2.2 Desired Outcomes

The project will be undertaken over a 1 - 2 year period with an effective start date upon approval of funds from funding partners. Specific goals of the proposed watershed plan are as follows:

1. Protect sensitive areas around Moberly Lake, and surrounding drainages.
2. Assess and maintain tributary flows in feeder streams.

3. Assess and restore Lakeshore riparian condition, through adherence to PRRD Lakeshore Development Guidelines and land-owner awareness;
4. Incorporate management plan goals and objectives into local OCP's [official community plans] and secure long term funding for watershed management.
5. Maintain and restore water quality.
6. Conduct education on watershed ecosystems and Lake and riparian stewardship.
7. Research and promote sensitive farming/ranching, forestry and oil/gas development.
8. Provide sensitive access to public land in the watershed.
9. Organize community involvement in local planning processes for sustainable economy, settlement and environmental protection.

Our project design outlining key tasks associated with each project component, analyses required along, intended deliverables and personnel required are presented in Table 1.0. Methodology for this community watershed planning project is drawn from the following sources:

- Rethinking Our Waterways: Planning for Water and Watersheds: Fraser Basin Council, 2012
- The BC Watershed Stewardship Alliance (2000 - "Watershed Management Planning in B.C. and Yukon – Volume IV: Workbook for Watershed Management & Planning";
- Salmon River Watershed Roundtable (1997 - "Reaching New Heights – Community Based Ecosystem Planning Guidebook";
- BC Ministries Fisheries; Environment Lands & Parks; Dept of Fisheries & Oceans (2001 – "Watershed-Based Fish Sustainability Planning – A Guidebook for Participants)
- Review of existing community watershed plans & processes e.g. First Nations and Local Government Water Source Protection Plans (BC and Canada)

A community vision for a sustainable watershed commonly includes one or more of the following desired outcomes:

- managing water uses and rates of consumption within available water supplies seasonally, annually and over the long-term
- developing and managing water supplies in ways that do not compromise the health and biodiversity of fish, wildlife, ecosystems and watersheds
- managing the allocation of water in ways that support a variety of high-value water uses, including human consumptive and non-consumptive uses as well as instream, environmental uses
- supporting a wide variety of economic development activities
- managing wastewater discharges within the capacity of receiving waters to absorb and assimilate those wastes
- supporting renewable energy sources while minimizing impacts on the environment
- managing human development patterns in ways that stabilize rather than destabilize the hydrologic cycle
- managing development in ways that reduce rather than increase the vulnerability of communities to flooding and erosion
- maintaining and strengthening community resiliency and preparedness for change, including changes in climate
- Planning can be reactive and responsive to longstanding issues and challenges. Planning can also be proactive in anticipating challenges that may be emerging on the horizon.

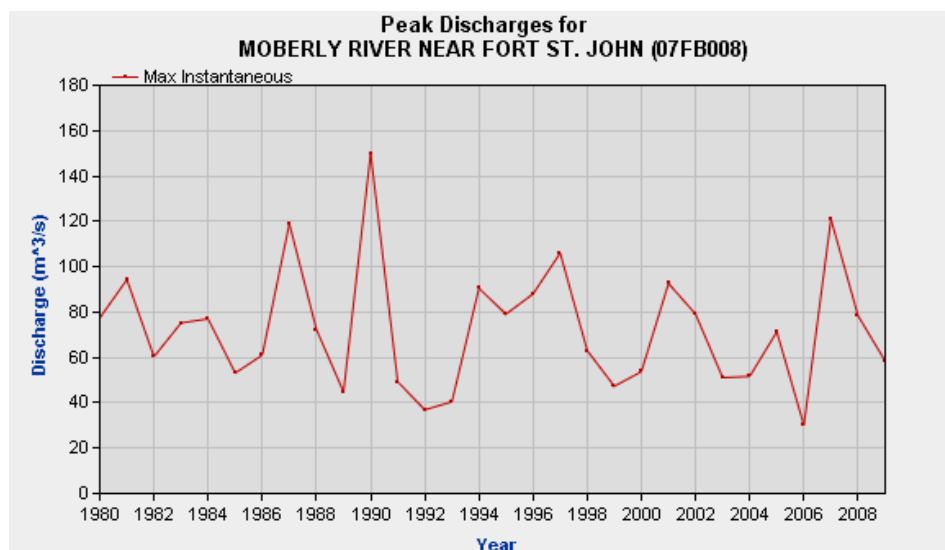
A significant new challenge for water and watershed planning is how to deal with climate change. Changes in temperature, precipitation and extreme weather events have already

influenced hydrology, and subsequent drought, and flooding and erosion effects. These in turn contribute to a variety of impacts on communities and ecosystems. Scientists project that more changes will come. Identifying, understanding and preparing for these changes (sometimes referred to as climate change “adaptation”) should become an important component, or a relevant lens to apply, within water and watershed planning processes.



Moberly Lake shoreline and overland flood impacts (2011)





Historical flows in Moberly Lake and in 2011 exceeding flow gauge calibration and estimated to exceed 260 m^3/sec at peak!

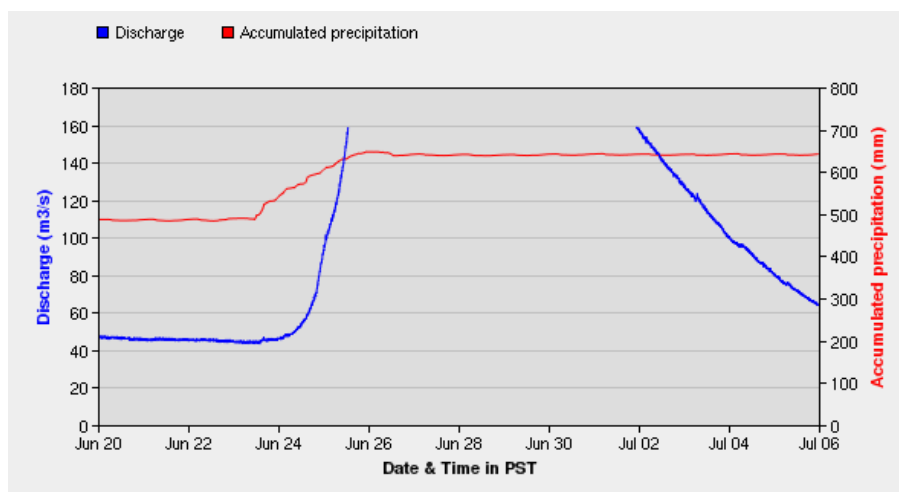


Table 1.0 Workplan for Moberly Lake Watershed Stewardship Strategy Implementation (Phase I)			
Project Phase	Activities	Deliverable	Personnel & Time Estimates
(A) Project Design, Baseline Research and Reporting			
(A1) Strategy Update/Pre-planning Feb-April 2015	i. confirm all key stakeholders and establish project Moberly Lake Watershed Roundtable	Terms of Reference and Workplan	Planning Consultant (40 hrs) Land Use Technician (15 hrs)
	ii. confirm objectives, workplan and anticipated deliverables	Watershed Planning Framework	
	iii. solicit initial stakeholder input consensus on immediate and longer term concerns (including impacts, indicators, info gaps)	Statement of Principles	
	iv. confirm funding and administration arrangement	Funding and Administration Agreements	
	v. i. provide input to PRRD on water development	Review PRRD Water/Sewer Initiative	
	ii. research and discussions for First Nations water and sewer services	Water/Sewer Hauling Management Options	
(A2) Baseline Information Update Mar-April 2015	i. gather gov't reports	Update Watershed profile (Lake and upper Moberly River)	GIS Technician (80 hrs) for research, and map overlays Planning Consultant (60 hrs) for baseline data analysis, research supervision, reporting Land Use Technician (140 hrs) for baseline data collection, reference reports
	iii. prepare base map with existing land- and water-uses for Moberly Lake watershed using air photos and field reconnaissance	Watershed Base Map	
	iv. compile existing water quality information (2003- present)	Water Quality Trends Report	
(A3) Data Analysis May-Aug 2015	i. start-up and bi-monthly progress meetings with MLCA Watershed Com.	Project Work-plan; Progress Reports	Hydrology Technician(s) (160 hrs – data compilation, collection, cataloguing, analysis and reporting for hydrology and water quality data) Planning Consultant (60 days) for ongoing project management, workshop facilitation, community reporting, plan design, data analysis and field assessments (subcontracted or in-kind), and preplanning tasks (A3)
	ii. prepare land-use profile (shoreline and Upper Moberly watershed)	Preliminary Lakeshore Sediment Source Risks Assessment (as per LSDG considerations)	
	iii. conduct field imagery analysis and field reconnaissance of shoreline development	Report on Status of Riparian Health and LSDG conformance	
	iv. review policies affecting MLk watershed mgt & identified gaps (e.g. forest development, oil & gas, regional planning, utilities, roads, etc.)	Regulatory Policy Review	

Table 1.0 Workplan for Moberly Lake Community Watershed Plan			
Project Phase	Activities	Deliverable	Personnel & Time Estimates
(B1) Public Engagement, Project Liaison and Reporting Feb – Sept 2015	i. compile existing water quality data and	Lake Shore and Shoreline Riparian Enhancement Recs	Planning Consultant (80 hrs) consultations, planning, project mgt and reporting) Land-Use Technician (120 hrs) for survey distribution, compile and present data; research support; meeting logistics
	ii. Develop indicators measuring & monitoring desired watershed mgt objectives and conditions	Watershed Mgt Indicators	
	iii. Input and Review of West Peace OCP	Review of West Peace OCP outputs to integrate Moberly Lake objectives	
	ii. research and discussions for First Nations water and sewer services	Water/Sewer Hauling Management Options	
(C2) Water Source Protection Plans (SFN and WMFN)* Fall-Winter 2015/16 * delegated to First Nations to pursue	i. draft water source protection policies and guidelines specific to WMFN/SFN operations and Lakeshore domestic users	Draft Policies & Guidelines	
	ii. confirm management requirements tasks & stake-holders responsibilities		
	iv. organize and facilitate reviews of draft Source Water Protection Plans policies with major stakeholders	Policy/Guideline Reviews	

Moberly Lake Watershed Stewardship Strategy (Phase I) Implementation Plan				
Component	Personnel	Expenses	Target Completion	Sub-total
A1. Update to Watershed Stewardship Strategy and Pre-Planning	\$5K (planning/mtgs organization/liaison, partnerships, funding proposals, project mgt) \$2K (research support , office, organization, data assembly)	\$1K (regional travel, office overhead)	March 2015	\$7K – prof fees \$1K - expenses
A2.1 Baseline Information Update (Land-Use/GIS and Lake quality assessment and analysis	\$5K (lead planner: project mgt, analysis, reporting) \$2K (researcher: water quality data-base, field sampling) \$5K (technician hydrology – for tributary, entry and outflows data collection) \$4K (GIS support)	\$5K (lab costs* – water quality – bacteria, chemical) \$2K (regional travel for agency mtgs, lab) \$3K (office overhead)	June 2015	\$16K – prof fees \$10K - expenses
A2.2. Status of riparian condition	\$10K (lead planner: field assessments, data assembly, analysis, mapping) \$2K (GIS support)	\$2K (project overhead) \$2K (regional travel - subcontractors)	Aug 2015	\$17K – prof fees \$ 4K - expenses
A2.3 Supplementary tasks (coordination of VLMP Sampling program – year 1)	\$5K (lead planner: program liaison, coordination/oversight)	\$2K (lab transfer, mileage and courier) \$5K (lab costs. data analysis) \$4.8K boat rental and volunteer time	Oct 2015	\$5K – prof fees or wages \$7K – expenses \$4.8K- sampling
B1. Public Outreach, Liaison and Reporting	\$5K (lead planner: attend/facilitate two public meetings, communications \$1K (research/planning support))	\$2K (communication materials, advertising, facility costs)	Sept 2015	\$6K – prof fees \$2K - expenses
		Phase I Implementation Tasks - Total Costs		\$79,800 (excl GST)
		In-kind contributions		
		MLCA (consultant fees, expenses)		-\$7000
		Meeting time (4 meetings @ \$50 per \$200		- \$200
		Boat rental – marina rate @ \$50/hr x 12 trips		- \$600
		In-kind volunteer time (sampling, shoreline survey, meetings 200 hrs @ \$20/hr)		- \$4000
Notes: 1. Lab Costs (\$200/sample @ 25 samples) 2. Office overhead (project admin, book-keeping , supplies, communication) 3. Regional travel (mileage @. 60/km, accom/meals by receipt) 4. Charge Out Rates: InterraPlan Inc (RW -\$125/hr Hydrology/GIS Tech - \$75/hr Planning Tech - \$50 hr)		FLRNO		- \$5000 (estimate only)
		Max PRRD Request		\$63,000
		External Request (project cost recovery for further Water Strategy Implementation)		\$20,000

MOBERLY LAKE COMMUNITY ASSOCIATION
Box 74 Moberly Lake, V0C 1X0

Dec. 8, 2014

Karen Goodings,
Chair, Peace River Regional District,
Dawson Creek, BC.

Attention: Chris Cvik, Chief Administrative Officer

RE: Moberly Lake Watershed Stewardship Strategy (Phase I) Implementation

Dear Ms. Goodings, Directors and staff:

Following on our letter of Sept 17, 2014, the Moberly Lake Community Association has conducted the necessary consultations to advance a proposal for partial implementation of the Moberly Lake Watershed Stewardship Strategy.

The attached proposal is being put forward for your consideration as a community initiative with primary funding support requested through the Fair Share program. We have estimated a total cost requirement of \$64,000. The project includes a significant cash and in-kind support from the MLCA and its partners. The initiative is also support of objectives related to development of the proposed new West Peace Official Community Plan and in relation to particular authority under the Local Government Statutes Amendment Act (1997).

Efforts will also be pursued to find funding partners to enable this work and a preliminary letter of support for this is appreciated by Dec 15, 2014 to avail of one potential source (BC Real Estate Foundation) . This will allow us to advance an initial proposal with subsequent details to be later provided on available resources (in-kind and cash contributions).

As earlier stated, this work is considered critical to properly informing that work as regards revision to land-use zones, sensitive areas designation including development permit areas and formal adoption of Lakeshore Development Guidelines. We also see this work supporting other proposed work by the Province and First Nations related to Lake stewardship (groundwater and upland assessment) for drinking-water source protection in accordance with relevant mandates and jurisdictional authority.

January 15, 2015

In this project, our focus will be limited the following components concerning the private land/shoreline interests for which we understand the PRRD to have an oversight role. The project will be implemented in partnership with the BC Lake Stewardship Program and the BC Ministry of Forest Lands and Natural Resource Operations.

- Update to Watershed Stewardship Strategy baseline land-use information
- Current status of Lake quality and potential new shoreland point and non-point contaminant or sediment risks.
- Status of Lakeshore riparian condition (erosion, habitat integrity) resulting from property development
- Public education and awareness on Lakeshore stewardship

We are submitting this process based on the earlier recommendation of our Area E Representative and subsequent consultations with your planning staff (B.Simard and J.Mclean) so trust you will find it complete and accurate. The MLCA's water resource specialist Reg Whiten, InterraPlan Inc. has been retained as consultant to advance the initiative so we ask that follow-up be directed to him at interraplan@gmail.com, 250-788-9635.

Thank you for considering this matter and responding at the earliest opportunity.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ian Campbell', written over a horizontal line.

Ian Campbell,
Secretary Treasurer, MLCA

Cc. MLCA Directors
Dan Rose, Area E Representative
Chief Roland Willson, West Moberly First Nations
Chief Nathan Parenteau, Sauteau First Nations

January 15, 2015



File: 77515-20\Moberly Lake

2014-11-27

Mr. Ian Campbell, Secretary Treasurer
Moberly Lake Community Association
Box 74
Moberly Lake, BC
V0C 1X0

Attn: Mr. Reg Whiten

Dear Messrs. Campbell and Whiten,

Re: Moberly Lake Volunteer Lakes Monitoring Program

As you may recall, in 1999 through to 2003 the Ministry of Environment (MOE) partnered with the BC Lakes Stewardship Society (BCLSS) and several local residents and volunteers to conduct a 4 year monitoring program on Moberly Lake as part of our Volunteer Lakes Monitoring Program (VLMP) for the North Region of the Province. Part of MOE's commitment to the VLMP program is to revisit those lakes where we have had volunteer partnerships after a span of time and do additional monitoring. This new data is then compared to the older data so we can determine if there have been any changes to the water quality over time, as well as make recommendations for future monitoring and stewardship of these watersheds. As such, we are hoping to once again partner with the Moberly Lake Community Association (MLCA) and BCLSS in the coming 2015 season.

Our hope would be to sample the same location as was sampled previously, the deepest point of the lake, on a bi-weekly basis. The sampling would include taking field measurements of secchi depth using a secchi disk, temperature at three depths (surface, mid and bottom) using a thermometer mounted inside a van Dorn sampler, and Dissolved Oxygen (DO) at three depths using a Winkler DO Kit. Additionally, we would like to have the volunteers collect water samples at three depths that would be sent for lab analysis of Phosphorus (P) and Chlorophyll-a (Chl-a). All field equipment, including the Secchi disk, van Dorn sampler, Winkler Kit, sample bottles, field sheets, maps, instructions, sample requisition forms and a first aid kit would be supplied by the MOE for use by the volunteers during the program. Additionally, MOE staff would travel to Moberly Lake to meet with volunteers and provide training on equipment use, sample collection, and filling out of paperwork before the ice comes off the lake so as to ensure a timely start to the monitoring program by volunteers. MOE would also contribute a portion of funding for lab analysis of the water samples. Field sheets and lab results would be received by MOE staff for tabulation, and eventual reporting out.

Volunteers would be required to supply their own personal safety gear including boats, motors, fuel, lifejackets, oars/paddles, etc., and would be required to have all the required legal documentation and equipment for safe boat operation. They would also be required to sign a safety waiver supplied by BCLSS. The sampling would be performed once every two weeks during the entire ice-off period (typically late May to early October) and would likely take two to three hours to complete. The samples would then be required to be sent to an accredited laboratory for analysis. Due to the size of the lake, and the requirement of boat operation, WorkSafe BC regulations require that a minimum of two persons be present for each sampling trip.

It is recommended that, if it has not already been done, the MLCA register as a member with BCLSS. As such, members of the MLCA who volunteer as lake samplers will be covered under BCLSS insurance while performing their sampling duties.

Understanding that it may be difficult for a smaller number of samplers to be available for all sample dates, it is recommended that several volunteers be trained so that sampling duties can be traded off and/or covered when others are unavailable. It is also suggested that partnering with local First Nations may increase the number of potential volunteers. It is further recommended, for consistency, that all samplers and/or volunteers be trained at the same time by MOE staff and be supervised by a single local resident who can coordinate samplers with appropriate partners and sample dates, ensure consistency of sampling and limit potential data gaps.

I have been made aware that there are some recent concerns over bacteria levels within Moberly Lake. There is the possibility of adding bacteriological samples to the suite already proposed, however; please be aware that there is a very short holding time on these samples in that they must be received by the lab for analysis within 24 hours of collection. There is no possibility for field preservation of these samples which can make it difficult to ensure viable sample results from remote locations, particularly in the north. I have also been informed that there is concern over potential contaminants entering the lake from several inflow streams. It may be possible to add sites to the monitoring program at inflow sites, however; this will add time to the volunteer commitment which may limit the number of volunteers who are willing to help with the sampling program. These proposals will also mean additional samples being sent for lab analysis and, as the cost for these additional samples is outside of a normal VLMP, they may not be covered by MOE lab analysis funding. Outside funding sources may be required for these additional monitoring sites and parameters. Nevertheless, MOE would be willing to assist in identifying any additional sample sites and/or parameters that may be done should funding be available, and we would include training of volunteers on the required sampling techniques and equipment. All data collected would be encompassed in the MOE report on the health of Moberly Lake.

Please let me know if this is something that the MLCA would like to pursue, and contact me via email at Kirsten.Heslop@gov.bc.ca or by phone at (250) 565-6445 if you require more information. MOE would like to arrange a meeting or conference call with you to discuss this information. Please provide some dates and times that will work for you to the aforementioned contact and we will set things up.

Yours truly,

A handwritten signature in black ink, appearing to read 'K Heslop', with a large, stylized loop at the end.

Kirsten Heslop, R.P.Bio, P.Biol
Water Quality Technician
Ministry of Environment

January 15, 2015



December 18, 2014

To Whom It May Concern;

The Saulteau First Nations Lands department is committed to volunteering in the Moberly Lake Sampling program. We will continue to work with the Moberly Lake Community Association on coordinating people and collecting samples for the duration of the study. We look forward to working together on this important project.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Naomi Owens', is located below the 'Sincerely,' text.

Naomi Owens
SFN Lands Manager

Proudly determined



Handout Re: D-1
 Reg Whiten <interraplan@gmail.com>

Letter of support

van Geloven, Chelton FLNR:EX <Chelton.vanGeloven@gov.bc.ca>

Thu, Jan 15, 2015 at 11:39 AM

To: Reg Whiten <interraplan@gmail.com>

Cc: Catherine Henry <chenry250@gmail.com>, Ian Campbell <redryder@pris.ca>, "Wilford, Dave FLNR:EX" <Dave.Wilford@gov.bc.ca>

Hi Reg,

Sorry for not getting back sooner.

I think we have 3-6 sites already established in the immediate Moberly area with hopes to gain 6-12+ more sites in the coming year.

Sampling, analyses and administration, on average is \$500-700/site - depending on the isotope analyses. So, quick summary suggests we have approx \$3000 invested directly in Moberly and potentially \$10,000 by the end of 2015.

If I can provide more info, please let me know. We support any activities you are undertaking with regard to watershed and lakeshore health. We commit to in-kind and technical support. As results from groundwater research become available, we will strive to adapt and integrate the learnings with any stewardship and learning objectives you are participating in.

Talk to you soon.

Chelton vanGeloven
 Source Water Protection Hydrologist

Sent from my iPad

On Jan 7, 2015, at 3:58 AM, Reg Whiten <interraplan@gmail.com<mailto:interraplan@gmail.com>> wrote:

hi Chelton ~ new year's greetings to you both from here in Portugal! I'm returning on the weekend and was hoping to hear back on that letter of support request following on my brief conversation with you in Dec. We are meeting with the PRRD on our work for Moberly on the 15th so appreciate whatever email or letter response can be provided for our work towards improved Lake quality and riparian condition assessments in support of our local official community planning and the Moberly watershed strategy implementation. The groundwater characterization is considered valuable to consider both surface land-use management and development implications for private well owners and which can be brought into the discussions at some point following review of all relevant new hydro-ecological research. We will also collaborate with you, as indicated, in identifying several new locations as possible (up to 12-15) subject to available time and budgets. Your time estimate of in-kind contributions for field work, analysis, and review meetings would be very helpful to demonstrate partnership

thanks,

Reg

On Fri, Dec 12, 2014 at 5:55 AM, Reg Whiten <interraplan@gmail.com<mailto:interraplan@gmail.com>> wrote: thanks Catherine -- I appreciate its a bit of a long shot to get a letter, but if you could draft for him, and just indicate an approximate in-kind amount from that project for characterizing Moberly lake wells..max "x" no of wells @ "x" cost for sampling and time for data collection and analysis for an in-kind total...It would really help us in our external application due Mon 15th

January 15, 2015

...I'm travelling Sun...so it would have to come via email by Sat on FLRNO letter head with Chelton's digital

Handout Re: D-1

signature....it would not take alot for me to make this happen....

again the general proposal from the attached letter you can see context of our focus on Lake quality and riparian... so I would just highlight more in there about the FLRNO groundwater piece....it will be nice working with you two on this in any event and we can chat soon about additional wells...

Reg

p.s. on other personal level.... did you get your AAg essay and other documentation complete..if so, I'd be able to push that to the Registrar for the Jan AGM?? I'm coming thru DCK en route to GP flight ..early am and maybe time to rendezvous for coffee

On Thu, Dec 11, 2014 at 10:40 PM, Catherine Henry <chenry250@gmail.com<mailto:chenry250@gmail.com>> wrote:

Hi Reg,

I spoke briefly spoke with Chelton today regarding this request. I'm currently preparing a short summary of the 2014 groundwater sampling program for him. I'm assuming Chelton will reference this in his efforts to follow-up with your discussions. Is there anything you need from me?

Best Regards,
Catherine Henry

Catherine Henry, MSc AAg
Environmental Consultant
W: [250.782.9852](tel:250.782.9852)<tel:250.782.9852>
C: [250.719.8394](tel:250.719.8394)<tel:250.719.8394>

On Thu, Dec 11, 2014 at 7:37 AM, Reg Whiten <interraplan@gmail.com<mailto:interraplan@gmail.com>> wrote:
Hi Chelton and Catharine:

Great to connect last week in FSJ. As mentioned, I have been working on advancing our watershed work at Moberly in partnership with FLNRO (K Heslop - attached for your reference) and thought it would be also helpful to show our collaboration with your groundwater assessment program.

If possible, a brief letter addressed to Ian Campbell, Box 74 Moberly Lake V0C 1X0 indicating support for the MLCAs objectives in working to assess water quality and riparian condition, etc. as indicated in our proposal to the PRRD. This letter would be used to seek other funding from external organizations in support of that work, so any indication of sampling (range of wells possible, and in-kind value) would be helpful. It can be sent via email redryder@pris.ca<mailto:redryder@pris.ca>, and copied to myself.

thanks and best wishes for the holidays!

Reg

—
Reginald C. Whiten, P.Ag. RPP, MCIP
Resource Stewardship Planning and Agrology Consultant
InterraPlan Inc. <http://www.linkedin.com/pub/reg-whiten/79/220/8a4><<http://t.senalcinco.com/e1t/c/5/f18dQhb0S7IC8dDMPbW2n0x6l2B9nMJW7t5XZs5v0L0bW2BplBd7fZy4YW3LqWkM56dPw-f32LSzW02?t=http%3A%2F%2Fwww.linkedin.com%2Fpub%2Freg-whiten%2F79%2F220%2F8a4&si=5905325023559680&pi=f25fe60d-85e5-4405-f8a1-d00345d9360d>>
and FaceBook <https://www.facebook.com/peacecountrywater?ref=hl><<http://t.senalcinco.com/e1t/c/5/f18dQhb0S7IC8dDMPbW2n0x6l2B9nMJW7t5XZs5v0L0bW2BplBd7fZy4YW3LqWkM56dPw-f32LSzW02?t=https%3A%2F%2Fwww.facebook.com%2Fpeacecountrywater%3Fref%3Dhl&si=5905325023559680&pi=f25fe60d-85e5-4405-f8a1-d00345d9360d>>

PO Box 108
Moberly Lake, B.C. V0C 1X0
Tel: [250-788-9635](tel:250-788-9635)<tel:250-788-9635> Cel: [250-219-9237](tel:250-219-9237)<tel:250-219-9237>

January 15, 2015

Handout Re: D-1

"And if the world has ceased to hear you, say to the silent earth: I flow.
To the rushing water, speak: I am." - Rilke

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—
Reginald C. Whiten, P.Ag. RPP, MCIP
Resource Stewardship Planning and Agrology Consultant
InterraPlan Inc. <http://www.linkedin.com/pub/reg-whiten/79/220/8a4><<http://t.senalcinco.com/e1t/c/5/f18dQhb0S7IC8dDMPbW2n0x6l2B9nMJW7t5XZs5v0L0bW2BplBd7fZy4YW3LqWkM56dPw-f32LSzW02?t=http%3A%2F%2Fwww.linkedin.com%2Fpub%2Freg-whiten%2F79%2F220%2F8a4&si=5905325023559680&pi=f25fe60d-85e5-4405-f8a1-d00345d9360d>>
and FaceBook <https://www.facebook.com/peacecountrywater?ref=hl><<http://t.senalcinco.com/e1t/c/5/f18dQhb0S7IC8dDMPbW2n0x6l2B9nMJW7t5XZs5v0L0bW2BplBd7fZy4YW3LqWkM56dPw-f32LSzW02?t=https%3A%2F%2Fwww.facebook.com%2Fpeacecountrywater%3Fref%3Dhl&si=5905325023559680&pi=f25fe60d-85e5-4405-f8a1-d00345d9360d>>

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Tel: 250-788-9635<tel:250-788-9635> Cel: 250-219-9237<tel:250-219-9237>
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January 15, 2015

Moving Forward in Watershed Stewardship at Moberly Lake



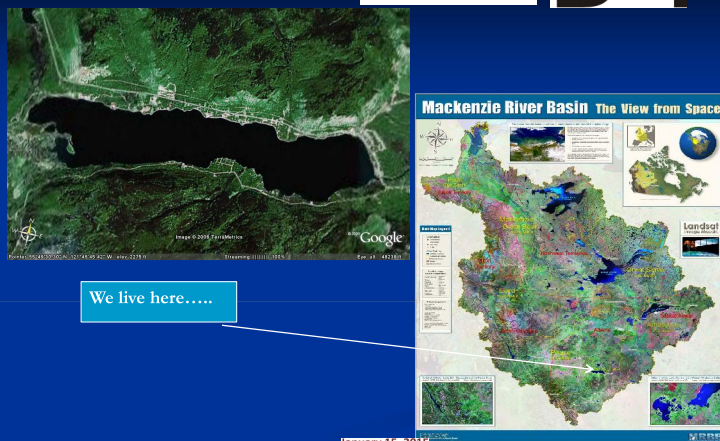
January 15, 2015

Reg C. Whiten, P.Ag. MCIP InterraPlan Inc., Moberly Lake
Prepared for The MLCA Watershed Advisory Group



January 15, 2015

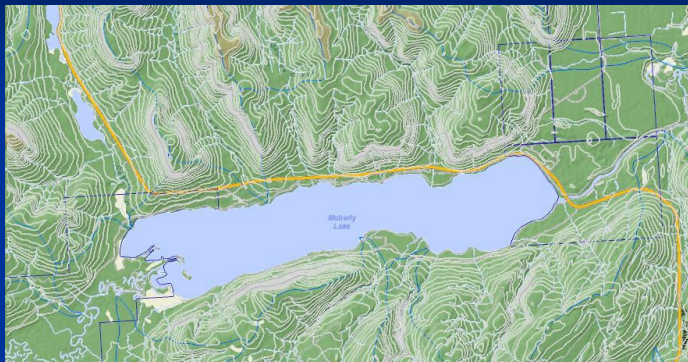
We live here.....



January 15, 2015



January 15, 2015



January 15, 2015

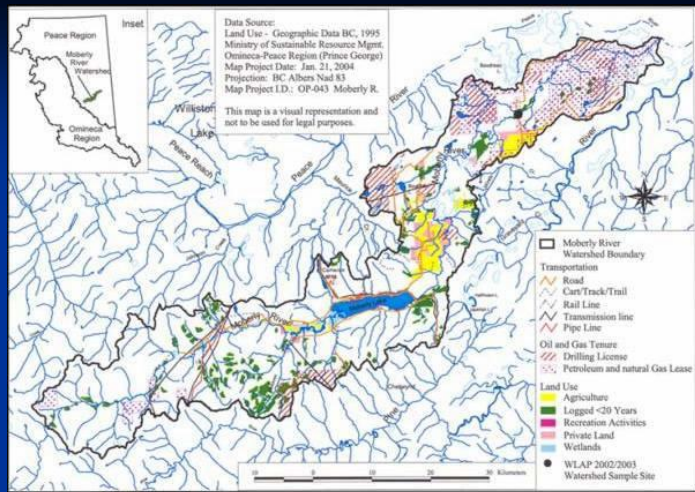
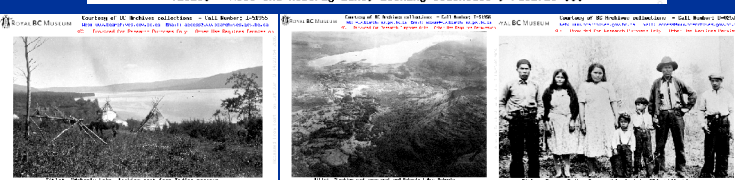


Figure 1. The Moberly River stream network showing the sample site location as well as land use activities.

Historical & TEK Perspectives....

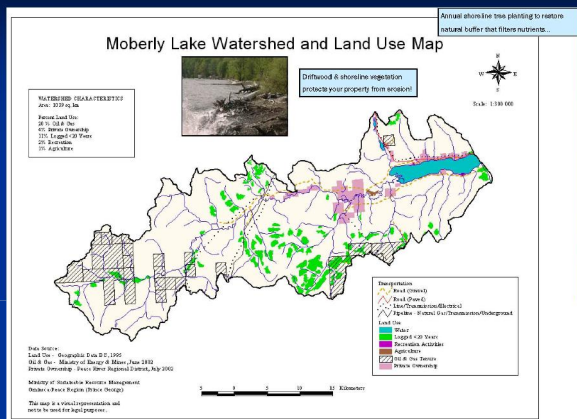


Title: "Moberly Lake, looking southeast"; Pacific ...



- Understanding trends in Lake & Watershed condition (levels, flows, quality)
- Environmental attributes (vegetation, fish, wildlife)
- Community resource use (country foods, cultural values)

January 15, 2015



The challenges...

- Understanding of Lake quality trends (natural and induced)
- Extent and condition of riparian health (shoreline and tributary streams)
- Water quality risks from upland development and Lakeshore development for "Source Water Protection" (on/off reserves)
- Management of current and future land-use to meet community objectives (environmental, social, economic)
- Impacts of climate change (flood and drought) and major disturbances (fire, Mountain Pine Beetle)

Handout Re: **D-1**

Are you Ready?

PLAN TODAY ... BE PREPARED FOR EMERGENCIES TOMORROW

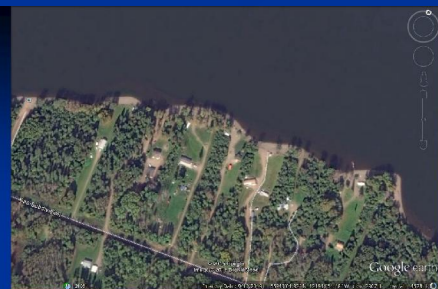
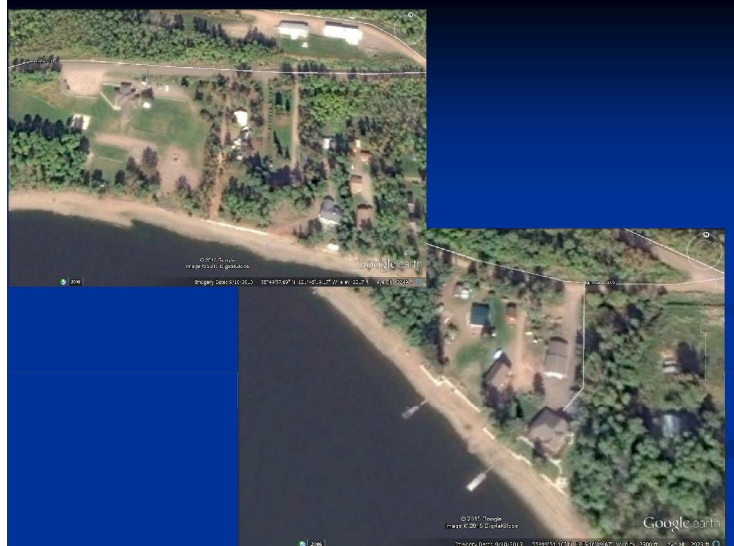
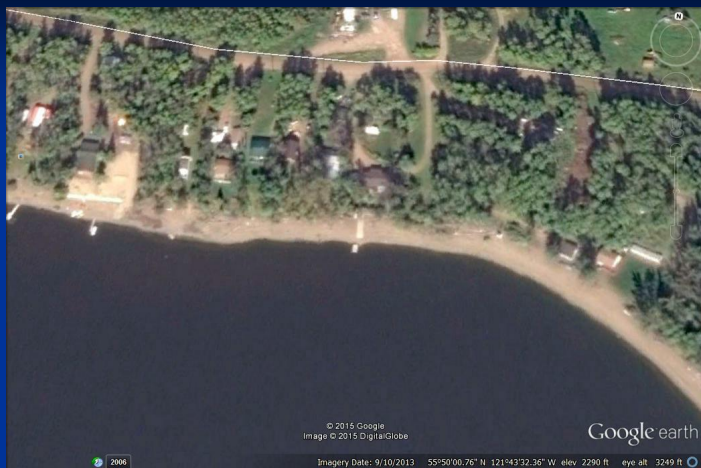
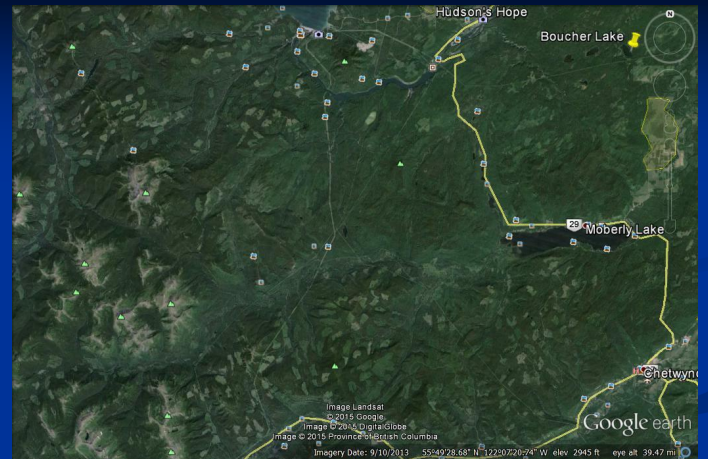
Residents Recover from Summer Flooding 2011

It rained. It poured. It flooded. Many residents and businesses in the BC Peace were impacted by the flooding in the summer of 2011. At the end of June through to the beginning of July a "1 in 100 year" weather event hit the Peace. Between June 23rd to 25th over 150 mm of rain was recorded in some areas of the West Peace. Then, between July 7th and 9th upwards of 120 mm fell along the BC/Alberta border. These weather events brought many impacts to our communities including wash-outs on roads and bridges, landslides and bank erosion and property flooding. Throughout the "flooding" residents of the Peace proved to be incredibly resilient, innovative and overall very prepared!

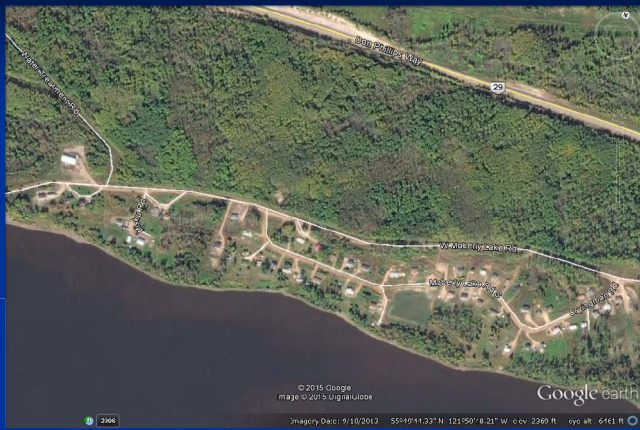
THANK YOU to the individuals and support agencies that worked together to respond to and assist in recovery from the June and July 2011 flood events. There are so many to thank, we apologize if we missed you from the list.

- Emergency Management BC
- District of Chetwynd & Fire Chief Leo Sabalsky
- Rebecca & Belinda, Chetwynd Emergency Social Services
- Moberly Lake Volunteer Fire Department & Chief Rob Henry
- Tomslake & District Fire Department
- RCMP – Chetwynd and Dawson Creek Detachments
- Red Cross, Samaritan's Purse, Mennonite Disaster Services, Christian Reform World Relief Committee & Salvation Army
- BC Disaster Psychosocial Services
- Residents who provided us with community updates during the event by phone, Facebook, email and more.

The PRRD gained valuable insights during this summer's flood events. The lessons learned will be incorporated in our updated Emergency Response Plan.



January 15, 2015



Mountain Pine Beetle

Provincial and Local Impacts

The watershed partners..



The Moberly Lake Watershed Initiative



PEACE RIVER REGIONAL DISTRICT

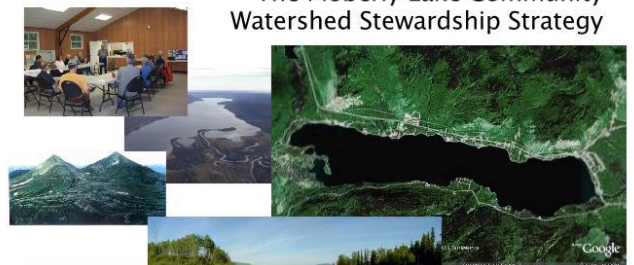


West Moberly First Nations

Saulteau First Nations



The Moberly Lake Community Watershed Stewardship Strategy



Moberly Lake Community Association
Watershed Committee
Prepared by
Reg C. Whiten, P.Ag. MCIP
InterraPlan Inc.
Moberly Lake, B.C.
January 15, 2008

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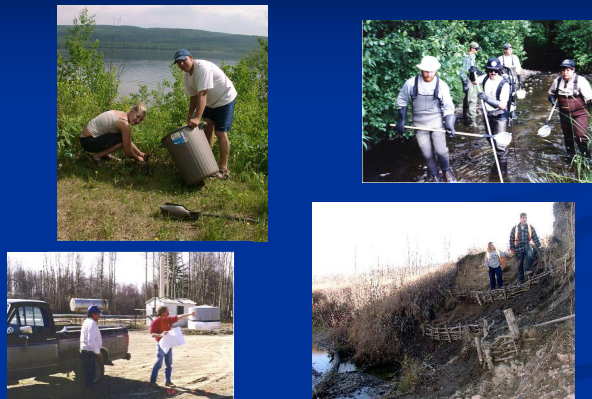
January 15, 2015



Public awareness through workshops, clinics



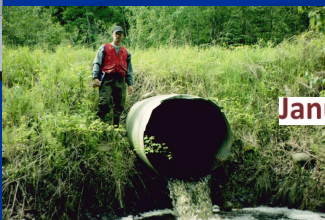
Ongoing need for environmental assessment & mapping (e.g. fish habitat & channel ass't, env. monitoring)...



...conducting research relevant to communities



...like strategic watershed planning



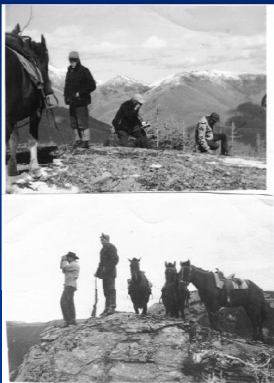
and fish passage assessments...

Increasing trend to manage environmental risks on farms & ranches...(e.g. EFP's)

Handout Re: **D-1**



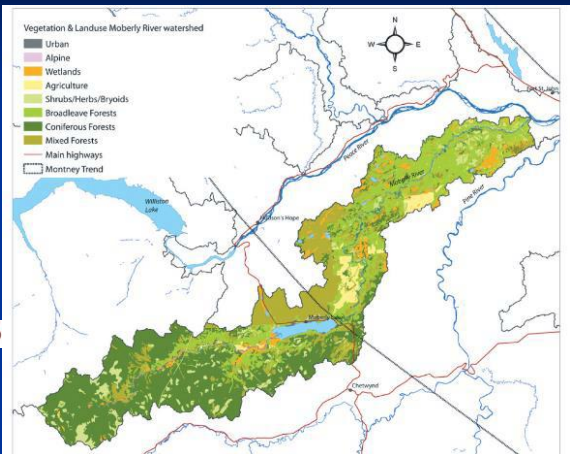
Recognized value, and role for traditional & local ecological knowledge...



Growing local responsibility & regulatory basis for domestic water-source protection (i.e. BC Drinking Water Protection Act)



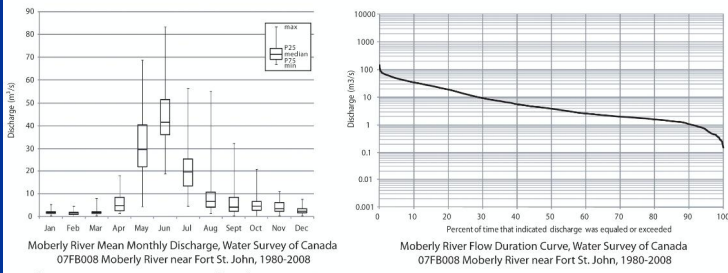
Land Use



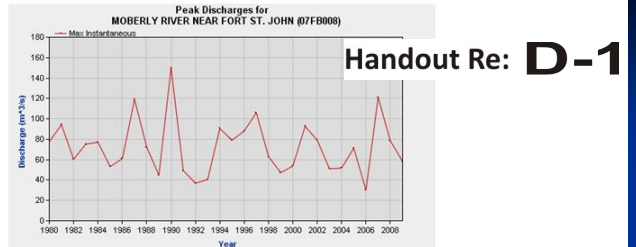
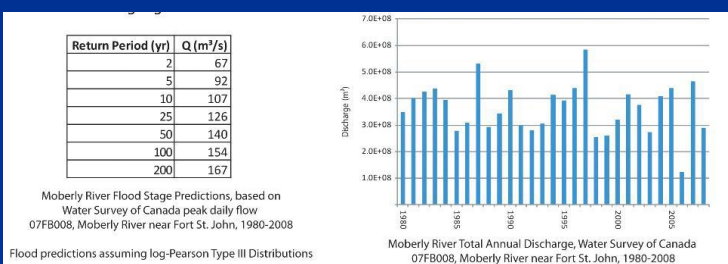
January 15, 2015

Hydrology

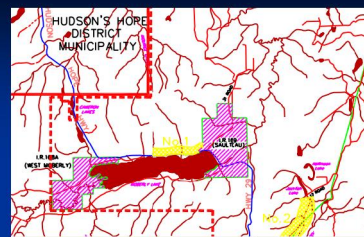
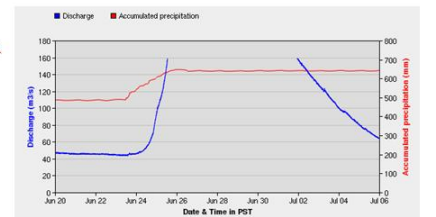
Streamflow



Peak Return Flows



Historical flows in Moberly Lake and in 2011 exceeding flow gauge calibration and estimated to exceed 260 m³/sec at peak!



Peace River Regional District By-law No. 1086, 1997	
SECTION 8 DEVELOPMENT PERMIT AREAS	
B.1	Within the West Phase region there are five (5) areas that will require a development permit. Refer to Map Number 8 of this by-law to view where the development permit areas are located.
Development Permit Area #1	
Description:	
This Development Permit Area commences at the Saitau Indian Reserve Boundary and runs in a westerly direction towards La Bata Creek. This Development Area covers the land lying to the north of Highway #63, between the Saitau Reserve and La Bata Creek.	
This includes all lands found within the following District Lots:	
District Lot #85	
District Lot #86	
District Lot #75	
District Lot #890	
District Lot #891	
District Lot #177	
District Lot #84	
District Lot #87	
District Lot #88	
District Lot #148	
all lands in District Lot #892, lying north of Highway #209	
District Lot #81	
District Lot #91	
Link to the designation:	
The authority for the basis of this designation is found in Section 87(1)(b) of the Municipal Act, which allows for the protection of development from hazardous conditions.	
Justification:	
The topography of the area ranges from a low slope of 8% to a high of 25%. The Regional District requires additional information prior to any development taking place in this area.	
Guidelines:	
Permanent structures and buildings, where permitted, should be located on a site that is protected from possible hazardous conditions.	

Peace River Regional District By-law No. 1086, 1997	
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Peace River Regional District
By-law No. 1086, 1997

4.3 Employment by Economic Sector (1991)

Sector	Workers	% of total
Primary	454	21
Manufacturing	130	9
Construction	119	8
Utilities	21	1
Transportation	115	8
Communications	23	1
Wholesale and Retail Trade	252	14
Finance/Insurance and Real Estate	16	1
Accommodation and Food Services	76	5
Health/Education	176	12
Government	80	4
Other	80	5

Source: Estimates based upon an extrapolation method.

4.4 Building Permits issued (1991 - 1996)

Year	Residential	Commercial	Garage/Shop	Govt/Inst.
1996	6	1	3	1
1995	7	2	3	1
1994	11	2	3	1
1993	10	2	3	1
1992	7	1	3	1
1991	6	1	3	1

Source: Peace River Regional District, 1996.

Notes: 1. No statistics or estimates have been prepared for the number of dwellings built, which are located outside of the mandatory building inspection area.



Moving Forward on a Collaborative Mackenzie Basin Watershed Stewardship

- build political commitment for the initiative
- shared vision, principals and strategic priorities developed using an 'interest-based approach'
- build on what's been already done, make new partnerships
- governance with resources to support planning & action (people with knowledge, insight and skill)
- watershed stakeholder support (financial, technical) but don't lose community base
- aboriginal water/land rights can benefit all...along with ensuring existing regulations are enforced

B.C. Volunteer Lake Monitoring Program
MOBERLY LAKE 1999, 2000, 2002, 2003

The Importance of Moberly Lake & its Watershed

British Columbia's water lakes provide good water quality, aesthetics and recreational opportunity. When we don't use these features in our local lakes, we want to know why. "Is water quality getting worse?" "Has the lake been polluted by land development?" What uses can be made of the lake today? And, what conditions will result from more development within the watershed?

The Ministry of Environment's Volunteer Lake Monitoring Program (VLM), in collaboration with the non-profit B.C. Lake Stewardship Society, is designed to help answer these questions. Through regular water sample collections, we can come to understand a lake's current water quality, identify the predicted use for a given lake, and monitor water quality changes resulting from land development within the lake's watershed.

Through regular status reports, the VLM can provide communities with monitoring results specific to their local lake and with educational material on lake protection issues in general. This useful information can help communities play a more active role in the protection of the lake resource. Finally, the VLM allows government to use its limited resources efficiently thanks to the help of area volunteers and the B.C. Lake Stewardship Society.

A watershed is defined as the entire area of land that moves the water it receives to a common waterbody. The term watershed is misused when describing only the land immediately around a waterbody or the waterbody itself. The true definition represents a much larger area than most people normally consider. Moberly Lake's watershed, shown on the next page, is 1039 square kilometers.

Watersheds are where much of the ongoing hydrological cycle takes place and play a crucial role in the purification of water. Although no "new" water is ever made, it is continuously cleaned and recycled as it moves through watersheds and other hydrologic compartments. The quality of the water resource is largely determined by a watershed's capacity to buffer impacts and absorb pollution.

Every component of a watershed (vegetation, soil, wildlife, life, etc.) has an important function in maintaining good water quality and a healthy aquatic environment. It is a common misconception that detrimental land use practices will not impact water quality if they are kept away from the area immediately surrounding a water body. Poor land-use practices anywhere in a watershed can eventually impact the water quality of the downstream environment.

January 15, 2015

- recognize traditional & local knowledge plus known science (review/accept baseline data, trends and move on

- talk and plan....but act at the same time (community extension builds interest and political support)

5. Maintain and restore water quality for Lakeshore and First Nations domestic supply.

6. Conduct education on watershed ecosystems and Lake and riparian stewardship.

7. Research and promote sensitive farming/ranching, forestry and oil/gas development.

8. Provide sensitive access to public land in the watershed.

9. Organize community involvement in local planning processes for sustainable economy, settlement and environmental protection.

Table 1.0 <u>Workplan</u> for Moberly Lake Community Watershed Plan		
Project Phase	Activities	Deliverable
(B1) Watershed Planning Outputs Summer-Fall 2015	i. review shoreline riparian condition	Lake Shore and Shoreline Riparian Assessment
	ii. Develop indicators measuring & monitoring desired watershed <u>mgt</u> objectives and conditions	Watershed <u>Mgt</u> Indicators
	iii. Input and Review of West Peace OCP	Review of West Peace OCP outputs to integrate Moberly Lake objectives
	ii. research and discussions for First Nations water and sewer services	Water/Sewer Hauling Management Options
(B2) Water Source Protection Plans (SFN and WMFN) Fall-Winter 2015/16	i. draft water source protection policies and guidelines specific to WMFN/SFN operations and Lakeshore domestic users	Draft Policies & Guidelines
	ii. confirm management requirements tasks & stakeholders responsibilities	
	iv. organize and facilitate reviews of draft Source Water Protection Plans policies with major stakeholders	Policy/Guideline Reviews

Thankyou! Mussi! Merci!



January 15, 2015

The Moberly Watershed Initiative Revisited...

Handout Re: **D-1**

1. Protect sensitive areas around Moberly Lake, and surrounding drainages.
2. Assess and maintain tributary flows in feeder streams.
3. Assess and restore Lakeshore riparian condition, through adherence to PRRD Lakeshore Development Guidelines and land-owner awareness;
4. Incorporate management plan goals and objectives into local OCP's [official community plans] and secure long term funding for watershed management.

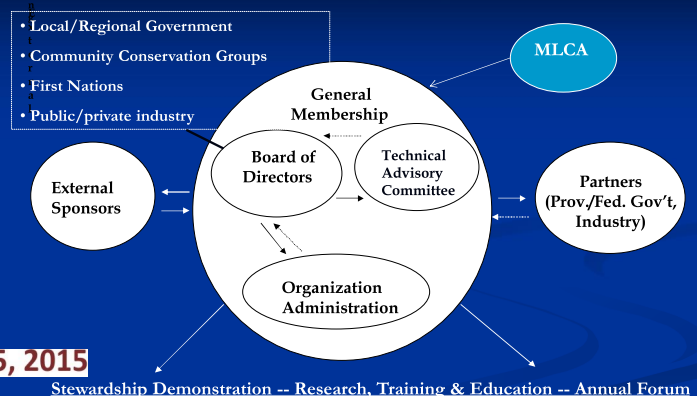
Next steps for project implementation

Table 1.0 <u>Workplan</u> for Moberly Lake Watershed Stewardship Plan		
Project Phase	Activities	Deliverable
(A1) Project Preplanning Winter 2015	i. confirm all key stakeholders and establish project Moberly Lake Watershed Roundtable	Terms of Reference and <u>Workplan</u>
	ii. confirm objectives, <u>workplan</u> and anticipated deliverables	Watershed Planning Framework
	iii. solicit initial stakeholder input <u>concerns</u> on immediate and longer term concerns (including impacts, indicators, info gaps)	Statement of Principles
	iv. confirm funding and administration arrangement	Funding and Administration Agreements
	v. i. provide input to PRRD on water development	Review PRRD Water/Sewer Initiative
	ii. research and discussions for First Nations water and sewer services	Water/Sewer Hauling Management Options
(A2) Baseline Information Update Winter-Spring 2015	i. gather gov't reports	Update Watershed profile (Lake and upper Moberly River)
	ii. prepare land-use profile (shoreline and Upper Moberly watershed)	Preliminary Water Source Risks Assessment
	iii. prepare base map with existing land- and water-uses for Moberly watershed using air photos and field reconnaissance	Watershed Base Map
	iv. compile existing water quality information (2003- present)	Water Quality Trends Report
(A3) Data Analysis Spring-Fall 2015	i. start-up and bi-monthly progress meetings with MLCA Watershed Com.	Project Work-plan; Progress Reports
	ii. review land-use profile to determine water quality risks	Issues Summary
	iii. highlight current watershed physical condition & activities based on information analysis	Existing Condition Report
	iv. review policies affecting MLCA watershed <u>mgt</u> & identified gaps (e.g. forest development, oil & gas, regional planning, utilities, roads, etc.)	Regulatory Policy Review

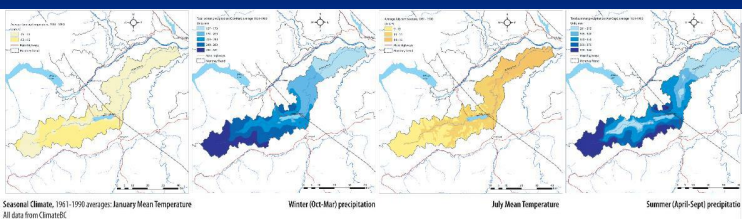
Anticipated Costs

Component	Personnel	Expenses	Subtotal
(A1) Project Preplanning	Planning: \$10K	Regional Travel: \$1K	\$12K
(A2) Baseline Information Update (A3) Data Analysis	Planning: \$20K Research: \$8K Technical support: \$14K (hydrology, water) GIS Support: \$6K	Lab Costs: \$5K Regional Travel: \$2K Project Overhead: \$9K	\$64K
(B1) Watershed Planning Outputs	Planning: \$15K Research: \$12K	Project Overhead: \$4K	\$31K
(B2) Water Source Protection Plans (SFN and WMFN)	Watershed Sediment Source Risk Ass't: \$30K Water Quality Risk Assessment: \$10 FN Source Plans: \$20K	Overhead: \$9K Travel: \$3K	\$72K

Peace River Watershed Council ...a model for going forward



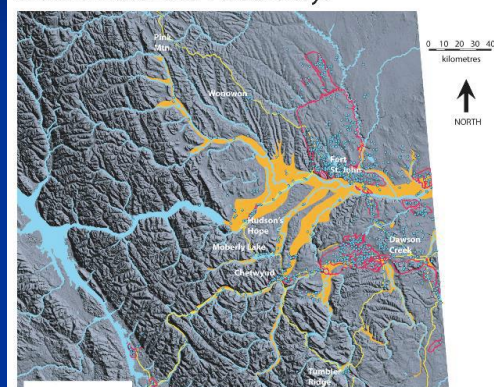
Moberly Watershed Climate Features



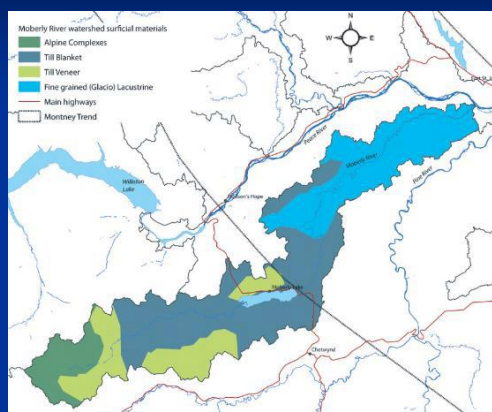
Paleovalleys

Handout Re: **D-1**

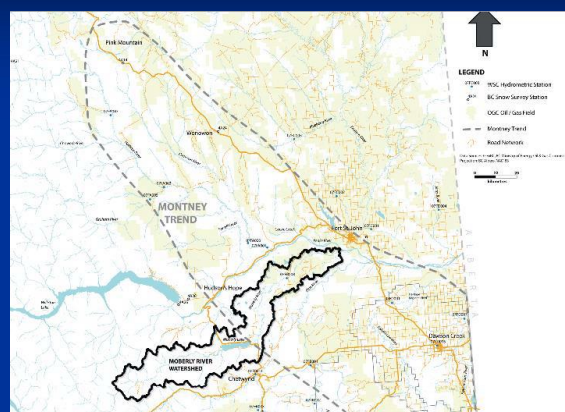
Ground Water and Paleovalleys



Surficial Geology



Gas Development Context



Lake Surface Area

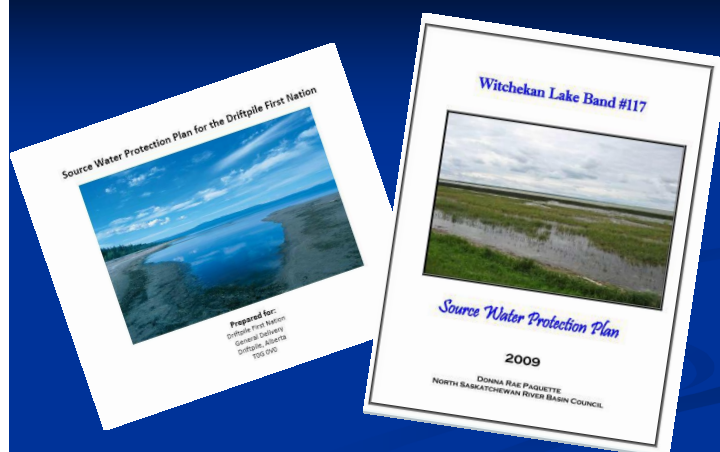
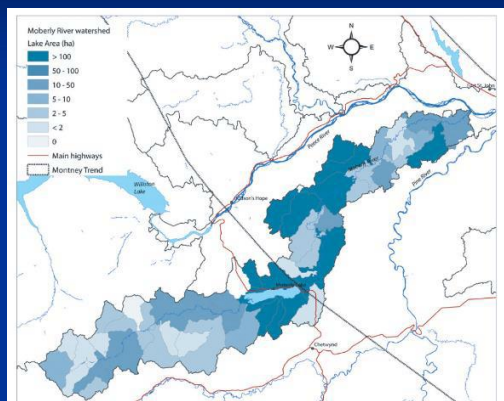


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January 15, 2015



PRRD Coverage with Great-West Life – Elected Officials

Extended Health Care

- \$25 annual deductible
- Reimbursement is 80% Out of Country Emergency and Prescription Drugs and all other expenses. \$50,000 lifetime overall plan maximum
- Drugs (**Drug Card, Generic Equivalent**) and medicines which require the written prescription of a physician or dentist and are dispensed by a licensed pharmacist, as well as certain life-sustaining drugs, injectable drugs and syringes for self-administered injections, when provided in Canada.
- Hospital - Semi-Private room
- Licensed Ambulance Services
- Private Duty Nursing - maximum of \$10,000 per calendar year.
- Hearing aids - \$4,000/5 years
- Orthotics - \$400 per year. Custom orthopaedics - \$400/ year, \$200/ year for children (<19)
- Paramedical Practitioners (per person):
 - \$100 per calendar year - Podiatrist, Psychologist, Speech Language Pathologist
 - \$100 per calendar year - Acupuncturist
 - \$200 per calendar year (combined) - Chiropractors and Naturopaths
 - \$250 per calendar year (combined) - Massage and Physiotherapy.
- Medical Supplies/Equipment (preauthorization required for expenses in excess of \$5,000)
 - Wigs & hairpieces - \$500 lifetime max
 - Brassieres - \$150 per calendar year, Stump socks - \$200 per calendar year
- Out-of-Province/country emergency travel coverage - unlimited lifetime maximum

Dental Care

- No annual deductible, 6 month recall
- Basic Services – 100% no annual max, Major Services – 50% no annual max

EFAP - Short term counseling:

- | | | |
|------------------------------|--------------------------|------------------------------|
| ○ individual & family crisis | ○ anger | ○ accidents/emotional trauma |
| ○ grief and loss | ○ couple & marital | ○ depression |
| ○ stress and anxiety | ○ career and work | ○ adolescents |
| | ○ drug and alcohol abuse | ○ children |