

Upgrading the North Thompson Sustainable Watershed Atlas

- **A Summary of Input from six Community Forums**
- **“Next Steps”**

Prepared by Dave Whiting and Elizabeth Elmer, December 2009

Introduction

The North Thompson Watershed Committee hosted six community forums in the North Thompson Valley during October and November of 2009. The purpose of the meetings was to inform participants of the progress to date in the development of the North Thompson Sustainable Watershed Atlas and to solicit input from community leaders on potential enhancements of the draft online atlas. Dave Whiting and Elizabeth Elmer organized and delivered the forums under the direction of the Watershed Committee.

Parts 1 and 2 of this document provides a summary of input from the participants at the forums in a format that supports subsequent work planning by the Watershed Committee. Part 3 of this document provides recommendations of the authors on “Next Steps” towards developing an enhanced version of the North Thompson Sustainable Watershed Atlas that reflects community input and will support decision-making in the North Thompson Valley.

1. Proposed Additional Map Layers

Proposed Map Layer - attributes	Ag - Clearwater	Ag - Barriere	Tour - Clearwater	Tour - Barriere	Emergency - NT.	Agency - NT	"Doable" in 3 months with limited resources?	Comments	Agency or Locally developed map layer?	DW "next steps" recommendation	Watershed Committee Priority
Agriculture and Food System Assets											
Ag Producers - products produced, organic, "Woofers" welcome, products for local exchange	X	X					Perhaps	<ul style="list-style-type: none"> One database on Ag Producers could result in several different map layers. Some producers would not wish to share all info publicly 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Ag Producers - Direct Farm Sales	X	X					Perhaps	<ul style="list-style-type: none"> Existing Farm Fresh database is the direct farm sales database Database needs updating Legal parcels within each farm would need to be defined and mapped Definition of "family farm" needed 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Ag Producers - Family Farms, corporate farms	X						No		Local		

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Types of irrigation - sprinkler, flood, etc	X						No	<ul style="list-style-type: none"> Data may be available from 2006 census of agriculture 	Local		
Agritourism operators		X					Perhaps	<ul style="list-style-type: none"> This layer could be displayed in conjunction with horse trails 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Agricultural Services - equipment, repair, rental, professional services	X	X					Perhaps	<ul style="list-style-type: none"> Bob Hearn - says info already collected after 2003 fires by consultant from Vernon 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Agricultural Land Capability (CLI)						X	Perhaps	<ul style="list-style-type: none"> Online research needed to identify if layers available from Fed. Gov. Shirley Culver for further info 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Historical map layer (1930s) showing types of production	X	X					No	<ul style="list-style-type: none"> Potential partnership with TRU (historical geography) ? 	Local		
Heritage agricultural assets	X		X				No	<ul style="list-style-type: none"> For example, Mitchell's barn 	Local		

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Simpw traditional hunting and gathering areas						X	No	<ul style="list-style-type: none"> Need for password protection Info within the Simpwc Sustainable Development Dept. 			
Food processing facilities: meat, honey, fruit and veg	X						Perhaps	<ul style="list-style-type: none"> Rainer, John Sedgewick?, Cindy Stut (Chu Chua) 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Commercial, certified kitchens - for local processing, for community kitchens	X	X					Perhaps	<ul style="list-style-type: none"> Ski Hill, Legion, Vavenby hall, churches 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Local food vendors - Farmers Markets, retail grocery, local restaurants	X	X					Perhaps	Clearwater, Barriere, Sun Peaks farmers markets	Local	Consider for inclusion in next work plan (Next Step item "e")	
Community Gardens	X						Perhaps	Avola, Chu Chua, Blue River	Local	Consider for inclusion in next work plan (Next Step item "e")	

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Charitable Food Programs - food banks, good food box, annual events	X						Perhaps	Annual event example is Lion's Club Senior's Christmas Dinner	Local	Consider for inclusion in next work plan (Next Step item "e")	
Gleaning, excess products, and garden space - gleaning opportunities and garden space to share	X	X					No	<ul style="list-style-type: none"> Other online tools may be more suitable than atlases 	Local		

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Environmental Assets											
Intermittent streams	X						done	<ul style="list-style-type: none"> Intermittent streams show on the existing 1:20000 TRIM layer but are not accurate 	Agency		
Larger scale stream mapping and stream classification						X	No	<ul style="list-style-type: none"> include defining riparian areas and top of bank 1:2000 trim not accurate support implementing Riparian Area regulation by local government could be undertaken using SHIM 			
Aquifers	X						Perhaps	<ul style="list-style-type: none"> There may be existing aquifer mapping 	Agency	Consider for inclusion in next work plan (Next Step item "f")	

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Climate characteristics and change - Mean Annual Temp, Summer Precip etc.	X					X	No	<ul style="list-style-type: none"> Maps of the atlas area showing various climate variables under climate change scenarios can be quickly done using ClimateBC 	Local		
Hours of sunshine / solar energy						X	No	<ul style="list-style-type: none"> Can be produced using solar analyst modeling Environment Canada may have data (Tim Penell, for further info) 	Local and/or Agency		
Windspeed mapping						X	No	<ul style="list-style-type: none"> Canadian wind atlas George Brock(sp?) for further info 	Agency		
Weather stations - current and historical	X	X					Perhaps	<ul style="list-style-type: none"> include both Environment Canada and Farm West Map symbol could link to data 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Fish habitat mapping						X	No	<ul style="list-style-type: none"> Undertaken by CN in the 1980's? Tim Panko (DFO) contact 	Agency		

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Biogeoclimatic Zones			X				Perhaps	<ul style="list-style-type: none"> Existing layer in iMapBC. Needs a web link 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Avalanche areas		X					No		Local		
Resource Development Assets											
Water licences	X	X					done	<ul style="list-style-type: none"> More attribute information may be available 	Agency		
Range Tenures	X	X					Perhaps	<ul style="list-style-type: none"> Existing layer in ILRR. Needs a web link only Contact info for licensee needed by other resource users in conjunction with aquifer mapping Is ground water contamination a major issue? 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Sewage treatment - septic fields		X					No		Agency?		

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Simpw - species at risk, wildlife, fisheries, archaeological sites		X				X	No	<ul style="list-style-type: none"> Fisheries info from a traditional perspective Would need password protections 	Agency		
Trap lines		X					Perhaps	<ul style="list-style-type: none"> Existing layer in ILRR. Needs a web link only 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Old range cabins and club cabins		X					No	<ul style="list-style-type: none"> Are these recreational assets? 	Local?		
Mining Activity - past, present, future		X				X	No	<ul style="list-style-type: none"> This topic needs further clarification Mineral claims past and present? Mineral exploration projects on claims? 	Agency		
Geothermal "hot spots"						X	Perhaps	<ul style="list-style-type: none"> May be an existing MEMPR map layer 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Barriere "water system"		X					?	<ul style="list-style-type: none"> Mayor Mike? What is the asset? 	Local		

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Sewer /water lines							perhaps	<ul style="list-style-type: none"> To facilitate potential investors Same topic as Barriere "water system"? 	Local		
Cultural and Heritage sites in North Thompson						X	No	<ul style="list-style-type: none"> Shirley Culver has pdf file produced in 2000 	Local		
Archaeological information						X	No	<ul style="list-style-type: none"> 	Agency		
Gravel pits		X					No	<ul style="list-style-type: none"> Private? Highways? Railway? Etc. This needs scoping out 	Local		

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Planning and Development Assets											
Agricultural Land Reserve	X						Done!	<ul style="list-style-type: none"> ALR layer in current version of atlas 	Agency		
Official Community Plans - Zoning		X				X	Perhaps	<ul style="list-style-type: none"> Some OCPs are in place, others in development (DOC and DOB) 	Agency	Consider for inclusion in next work plan (Next Step item "e")	
Economic Development Community profiles						X	Perhaps	<ul style="list-style-type: none"> Prepared by Community Futures for each community Map symbol could link to pdf document 	Agency	Consider for inclusion in next work plan (Next Step item "e")	
Community Databases			X				No	<ul style="list-style-type: none"> Various organizations in the NT maintain databases of info A map layer could show the location and purpose of the various databases 	Local		
Volunteer services/providers						X	No	<ul style="list-style-type: none"> 	Local		

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Demographic information						X	No	<ul style="list-style-type: none"> Population, age groups, income levels already mapped Presentation at UBCM - Tim Pennel for more info Map units may be too large to be useful - needs investigation 	Agency		
Environmentally sensitive areas	X						No	<ul style="list-style-type: none"> Need definition of environmentally sensitive 	?		
Kamloops LRMP - Resource Management Zones, Legal Objective areas		X					Perhaps	<ul style="list-style-type: none"> Existing layers within iMapBC. Needs web link only. 	Agency	Consider for inclusion in next work plan (Next Step item "f")	

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Land Status/Jurisdiction											
Crown land, Private Land, Indian Reserves, Provincial Parks and Protected Areas		X	X			X	Perhaps	<ul style="list-style-type: none"> Existing layers in ILRR. Needs a web link only. Permission may be a challenge 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Simpc Traditional Territory		X				X	Perhaps	<ul style="list-style-type: none"> Link from atlas layer to Simpcw web site 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Regional and Community parks			X			X	Perhaps	<ul style="list-style-type: none"> 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Recreation and Tourism Assets											
Public Restrooms		X		X			No	<ul style="list-style-type: none"> Needs definition 	Local		
Public Access to North Thompson River		X		X			No	<ul style="list-style-type: none"> Could conflict with sensitive archeological sites 	Local		

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Artists and artisans - carvers, potters, painters, museums, etc		X		X			Perhaps	<ul style="list-style-type: none"> North Thompson Arts Council potential partner to compile database 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Agri-tourism facilities						X	Perhaps	<ul style="list-style-type: none"> 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Road Classification (RV friendly, 4 wheel drive, car friendly, etc)		X					Perhaps	<ul style="list-style-type: none"> This project could be combined with emergency management road classification Barriere C of C working on signage project GIS contractor needed 	Local	Consider for inclusion in next work plan (Next Step item "f")	
Restaurants - type, organic, local food, languages spoken	X		X				Perhaps	<ul style="list-style-type: none"> Overlaps with proposed Ag and Food security layer Could be made into a standalone pdf file per year 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Golf courses		X					Perhaps		Local	Consider for inclusion in next work plan (Next Step item "e")	

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Trails - horse, snowmobile/ATV, mountain bike, hiking, cross country skiing,		X					No	<ul style="list-style-type: none"> • Connie Falk a contact for non-motorized trail guide • Mapped trails should not cross private property • Tammy McDonald - cross country trails contact • Need standardized format for identifying trails 	Local		
Whitewater - level of difficulty			X				No	<ul style="list-style-type: none"> • TRU Tourism a potential partner 	Local		
Fishing regulations and boundaries						X	No	<ul style="list-style-type: none"> • 	Local		
Fishing opportunities - stocked lakes, unstocked lakes, rivers, ice fishing lakes,			X			X	No	<ul style="list-style-type: none"> • BC Freshwater Fisheries society has maps 	Agency		
Wilderness areas			X				No	<ul style="list-style-type: none"> • Need a workable definition of wilderness 	Local		
Internet access - free public sites, internet cafes			X				Perhaps	<ul style="list-style-type: none"> • Public libraries • Employment services 	Local	Consider for inclusion in next work plan (Next Step item "e")	

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Tourist accommodation - type, wireless internet, pets allowed, languages spoken			X			X	Perhaps	<ul style="list-style-type: none"> Tourism Wells Gray potential partner Barriere Chamber of Commerce? TRU Tourism a potential partner 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Tourist information - centres, guides			X				Perhaps	<ul style="list-style-type: none"> 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Languages spoken - German, French, Dutch			X				Perhaps	<ul style="list-style-type: none"> Derived from restaurant, tourist information, accommodation data 	Local	Consider for inclusion in next work plan (Next Step item "e")	
RV sites - pull throughs, electrical hook ups, pet friendly, wireless internet, sani-dumps, languages spoken			X				Perhaps	<ul style="list-style-type: none"> 	Local	Consider for inclusion in next work plan (Next Step item "e")	
RV services - RV repair, tires, gas stations, small appliance repair, locksmiths, languages spoken, veterinarians			X				Perhaps	<ul style="list-style-type: none"> 	Local	Consider for inclusion in next work plan (Next Step item "e")	

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Festivals and events						X	Perhaps	•	Local	Consider for inclusion in next work plan (Next Step item "e")	
Local amenities - churches, community halls, non-profit organizations, dog parks, pet groomers, pet friendly parks, ski trails, hiking trails				X			Perhaps	• Proposed amenities of value to tourists	Local	Consider for inclusion in next work plan (Next Step item "e")	
Recreation facilities/programs - soccer fields, baseball diamonds, skating/hockey rinks, curling rinks,pools				X		X	Perhaps	•	Local	Consider for inclusion in next work plan (Next Step item "e")	
Airstrips and heli-pads				X			Perhaps	• Could also be an emergency management layer	Local	Consider for inclusion in next work plan (Next Step item "e")	
Emergency services - RCMP, medical facilities, fire protection areas, fire halls, hospital, 911 coverage				X	X	X	Perhaps	•	Local	Consider for inclusion in next work plan (Next Step item "e")	

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Geologic resources - fossil beds, gold panning, rock hounding, volcanic features			X				Perhaps	<ul style="list-style-type: none"> Large volcanic feature database exists (Chuck Emery contact) A volcanic (geologic) sub-atlas may be appropriate as a future project 	Local		
Cell phone coverage - carriers				X			No	<ul style="list-style-type: none"> 	Local		
Geocaching info						X	perhaps	<ul style="list-style-type: none"> 	Local		
Points of interest - waterfalls, bird watching "hotspots", photography, circle tours and birding trails				X			Perhaps	<ul style="list-style-type: none"> Clearwater bird society (Helen Knight) contact 	Local		

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Emergency Management Assets

House numbers - driveway access concerns, residents with mobility challenges, seasonally occupied dwellings					X		Perhaps	<ul style="list-style-type: none"> TNRD layer (911) IH has mobility data Password protected? 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Settlement./forest interface - wildfire risk, access, forest type					X	X	No	<ul style="list-style-type: none"> Forest cover available for download from LRDW one sheet at a time 	Agency		
Floodplain					X		done	<ul style="list-style-type: none"> Needs to be updated 	Agency		
Watershed boundaries					X		Perhaps	<ul style="list-style-type: none"> Layers from provincial watershed atlas? 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Steep areas					X		Perhaps	<ul style="list-style-type: none"> Fairly simple GIS exercise 	?		
Terrain hazards					X		Perhaps	<ul style="list-style-type: none"> Terrain stability mapping of MoE? 	Agency		

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Aquifer mapping - well locations					X		Perhaps	<ul style="list-style-type: none"> MoE layers 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Chemical hazards - gas stations, chemical storage facilities, propane tanks					X		Perhaps	<ul style="list-style-type: none"> Gas stations overlap with tourism assets and could be done quickly 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Railroad mileage markers					X		Perhaps	<ul style="list-style-type: none"> Spill response, hazardous material incidents on CN 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Wildfire hazard					X		Perhaps	<ul style="list-style-type: none"> TNRD report 	Agency	Consider for inclusion in next work plan (Next Step item "f")	
Community watersheds					X		Perhaps	<ul style="list-style-type: none"> Existing layer, needs web link 	Agency	Consider for inclusion in next work plan (Next Step item "e")	

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Road inventory - gravel/paved, evacuation routes,					X		Perhaps	<ul style="list-style-type: none"> Classify by passable by atv to low bed, school bus (gvw?) Confirm bridges GIS contractor required Could be undertaken in conjunction with tourism layer 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Bridges - intact, out of service, at risk of washout, gvw limit					X		Perhaps	<ul style="list-style-type: none"> Component of road inventory 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Emergency supplies/infrastructure - sandbag locations, fire generators, pumps, fire protection equipment, foam					X		No	<ul style="list-style-type: none"> Needs to be password protected Needs to be locally updateable to keep current Simpw emergency preparedness plan may be a resource 	Local	Consider for inclusion in next work plan (Next Step item "e")	
Go/no go fire response areas based on First Nation values					X		No	<ul style="list-style-type: none"> Content info not necessary Password protection required 	Local		

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Collection/public reception areas - churches, schools, day cares					X		Perhaps	•	Local	Consider for inclusion in next work plan (Next Step item "e")	
Communication infrastructure - ham radio locations, cell towers, radio towers					X		Perhaps	• Need to be protected in emergencies	Local	Consider for inclusion in next work plan (Next Step item "e")	
Communication infrastructure coverage - vhf, cellular, MoFR, logging companies, ham radios					X		No	•	Local		
Neighbourhood preparedness - layers					X		No	• Link to written report	Local		
Fire history					X		No	• Chuck Emery has access to data	Local		
Completed fuel management projects					X		Perhaps	•	Local	Consider for inclusion in next work plan (Next Step item "e")	
OCP and Simpcw Emergency plans - map component					X		No	• Atlas could provide link to documents	Agency		

2. Proposed Tools to improve Atlas Functionality

Proposed Tool to improve Atlas Functionality	Ag - Clearwater	Ag - Barriere	Tour - Clearwater	Tour - Barriere	Emergency - NT	Agency - NT	"Doable" in 3 months with limited resources?	Comments	DW "next steps" recommendation	Watershed Committee Priority
1. Create separate "sub-atlases" for Agriculture and Community Food Security, Recreation and Tourism, and Emergency Management	X	X	X	X	X	X	Perhaps	<ul style="list-style-type: none"> Sub-atlases will run faster than the full atlas because of fewer map layers to load Sub-atlases are easier for users with specific interests Sub-atlases can be aligned with funding programs easier than broad based atlases 	Consider for inclusion in next work plan (Next Step item "a")	
2. Web pages should be developed to provide supportive information for each sub-atlas	X	X	X	X	X	X	Perhaps	<ul style="list-style-type: none"> Web pages should be maintained by atlas coordinator User friendly atlas overview should be included Home page should include a atlas work program/status report CMN currently has a web page supporting the NT atlas. This can be expanded CMN content management tools are available and should be investigated Consider tourism web pages in English, German, French and Dutch 	Consider for inclusion in next work plan (Next Step item "b")	

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3. Provide ability to download gis layers (including shp files) and/or link to layers on wms servers						X	No	<ul style="list-style-type: none"> This ability would significantly improve functionality of atlas to agencies with "in house" GIS departments. Locally developed layers could be easily incorporated into their own GIS products There area tools that allow shp files to be uploaded onto the atlas as well 		
4. Location of mouse pointer is displayed in latitude and longitude coordinates						X	Perhaps	<ul style="list-style-type: none"> Currently UTM coordinates are displayed Lat and Long coordinates could assist compiling local asset database for mapping 	Consider for inclusion in next work plan (Next Step item "d")	
5. Instructional materials on using the atlas including "You Tube" videos, Quick Start Guide, User Guide, glossary of mapping jargon			X			X	Some	<ul style="list-style-type: none"> These materials would be available through the associated web site A guide could be developed (in various languages) to help tourists plan itinerary (see item 2) 	Consider for inclusion in next work plan (Next Step item "c")	
6. Contact information of coordinator for prospective partners or users						X	Yes	<ul style="list-style-type: none"> On the atlas web site Acquire a dedicated email address for coordinator such as ntatlas_coordinator@gmail.com A feedback form would foster input from users on a continuous basis 	Consider for inclusion in next work plan (Next Step item "c")	

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7. Mark up tools	X	X	X	X	X	X	Yes	<ul style="list-style-type: none"> Mark up tools allow users to annotate the map with arrows, text and other symbols These basic tools are "on the shelf" at the CMN and should be easily added 	Consider for inclusion in next work plan (Next Step item "c")	
8. Improved print tools	X	X	X	X	X	X	Perhaps	<ul style="list-style-type: none"> Printing directly to pdf would be good enhancement Export to a free application for more advanced mark up would be useful We need the capability for businesses to create pdf maps that can be printed and given to clients 	Consider for inclusion in next work plan (Next Step item "c")	
9. Zoom to coordinates (lat and long)						X	No	<ul style="list-style-type: none"> 		
10. Export to kml						X	No	<ul style="list-style-type: none"> Kml could be displayed not only in Google Earth on desktop, but also on 3G cellular phone Special layers for tourists could be developed to use on phones 		
11. Bookmarking (and the ability to send a bookmark as a link)	X	X	X	X	X	X	No	<ul style="list-style-type: none"> Significant interest of participants in the potential of displaying a map, then saving and sending the bookmark as a link to clients via email or website 		

Proposed Tool to improve Atlas Functionality	Ag - Clearwater	Ag - Barriere	Tour - Clearwater	Tour - Barriere	Emergency - NT	Agency - NT	"Doable" in 3 months with limited resources?	Comments	DW "next steps" recommendation	Watershed Committee Priority
12. "Summary Report" of layers on map						X	No	<ul style="list-style-type: none"> This requested tool may be the ability of the atlas to display a summary of the metadata associated with each of the layers being displayed (these are the layers that would appear in the legend of the printed map) 		
13. Spatial intersect						X	No	<ul style="list-style-type: none"> This tool would allow two layers to be defined and their area of overlap would become a new selected layer displayed and available for mark up (item 7) 		
14. Search tools							Perhaps	<ul style="list-style-type: none"> A search tool is currently in the atlas. This tool could incorporate identifying sub-atlases and could provide links for data download (items 1, 3) Scale range where layer visible is currently in search tool 	Consider for inclusion in next work plan (Next Step item "c")	
15. Custom map production tool for emergency workers					X		No	<ul style="list-style-type: none"> Evacuees need maps showing where their vouchers can be used (grocery stores, restaurants, accommodation, services) 		
16. Zoom to scale for layer to become displayed				X			No	<ul style="list-style-type: none"> Map layers are only visible within various scale ranges 		

Proposed Tool to improve Atlas Functionality	Ag - Clearwater	Ag - Barriere	Tour - Clearwater	Tour - Barriere	Emergency - NT	Agency - NT	"Doable" in 3 months with limited resources?	Comments	DW "next steps" recommendation	Watershed Committee Priority
17. Online data update tool	X	X	X	X	X	X	No	<ul style="list-style-type: none"> For locally developed asset maps (points) Group that originally gathers data for the map layer maintains it Password protected Need to keep information current Essential for some tourism and agriculture/food layers proposed 		
18. Chat room/blog for fostering sharing within agriculture and food community	X						Perhaps	<ul style="list-style-type: none"> Foster sharing of equipment, equipment for sale, buy/sell, parts for sale, etc Garden space available, gleanings opportunities Direct farm sales 	Consider for inclusion in next work plan (Next Step item "C")	

Part 3 - Recommended Next Steps

1. The Watershed Committee engages a local coordinator to manage the development and maintenance of the North Thompson Sustainable Watershed Atlas on their behalf and under their direction.
2. The coordinator develops a work plan to address the following enhancements within a budget allocated by the Watershed Committee:
 - a. Restructuring the existing atlas to produce a Main Atlas as well as an Agriculture and Food Security Sub-Atlas, a Recreation and Tourism Sub-Atlas and an Emergency Management Sub-Atlas
 - b. Development of an initial website as a companion to the restructured atlas
 - c. Development of instructional information and forums to attract users and foster use
 - d. Incorporation of additional atlas tools into the atlas to improve functionality to users
 - e. Development of locally developed map layers, using community partners and contractors
 - f. Incorporation of additional agency layers available through web links or available files
3. The coordinator prepares funding proposals on behalf of the Watershed Committee associated with components of the evolving work plan

Comments regarding "next steps":

- A local coordinator should be an individual who is a "quick study" with strong "soft" skills (interpersonal, organizational, and communication skills) rather than technical skills associated with GIS
- Brad Mason of the Community Mapping Network and Dave Whiting Consulting are resources available to the coordinator regarding potential tasks, contractors, costs, training, etc.
- Items 2 and 3 cannot be developed in a linear fashion. These inter-related tasks can occur concurrently and iteratively. They are influenced by costing discussions with potential contractors and partners.
- Local groups as partners will need to be engaged in the production of local maps. Training of the groups in compiling appropriate databases using MS Excel will be necessary
- Engaging a local GIS contractor to provide GIS support to the coordinator will be necessary for items 2 e and 2 f. This individual may also be able to provide support to implementing other components of the proposed work plan. The local GIS contractor should report to the local coordinator.