

Vegetation Resource Inventory Photo Interpretation Project Implementation Plan

Kamloops Timber Supply Area (TSA)
Thompson Rivers District
(Formerly Headwaters and Kamloops Forest Districts)

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1.0 Introduction

1.1 Background

In the province of British Columbia, the Vegetation Resource Inventory (VRI) is a strategic level inventory designed to support, among other things, the Timber Supply Review (TSR) process, and is the current provincial standard for forest inventory. The primary objective of this project is to create a reliable inventory meeting provincial VRI standards for the Kamloops Timber Supply Area (TSA). The project will cover the entire Kamloops TSA.

The Kamloops TSA corresponds with the Thompson Rivers District. The previous Kamloops Forest District and the portion of the previous Headwaters Forest District within the Kamloops TSA are now part of the Thompson Rivers District. Due to the size of the TSA, the Phase 1 project will be split into two separate contracts. The Kamloops Project will cover the southern portion of land that was previously part of the Kamloops Forest District, and the Clearwater Project will cover the northern portion that was previously part of the Headwaters Forest district within the Kamloops TSA.

The current inventory was completed approximately 30 years ago. In the mid 1990s, inventory data over a portion of the old Kamloops District was updated (retrofit) to meet the VRI data standards. Ground data was collected while completing the retrofit.

Since the last inventory the Kamloops TSA has experienced three big fire seasons, the Mountain Pine Beetle (MPB) outbreak and increased harvest level to respond to the pest and fire impacts, resulting in changes to forests in the TSA.

1.2 Project Land Base

The Kamloops TSA is located in south central BC and covers approximately 2.77 million hectares of the Thompson Okanagan Region. It ranges from Logan Lake in the south to Wells Gray Park in the north-west, including the Blue River area, and is bounded by the Columbia Mountains to the east and the Cariboo Regional District to the west.

The topography of the Kamloops TSA is diverse, ranging from hot, dry grasslands in the valley bottoms in the south to wet rugged mountains in the north, and is bisected by the North Thompson River which joins the South Thompson River at Kamloops.

Forest lands in the TSA include extensive grasslands and forests that together provide timber and other forest products, forage for livestock and various wildlife species, fish, minerals, and opportunities for recreation and tourism.

The area currently considered suitable and available for timber harvesting—the timber harvesting land base, or ‘THLB’—covers roughly 45 percent of the TSA (excluding Wells Gray Park). Of the THLB area, forest stands predominated by Douglas-fir cover roughly 33 percent; lodgepole pine, 30 percent; spruce, 18 percent; and subalpine fir, 9 percent. Ponderosa pine, western red cedar, western hemlock and trembling aspen are also present (see Table 2).

Figure 1: Project Overview Map

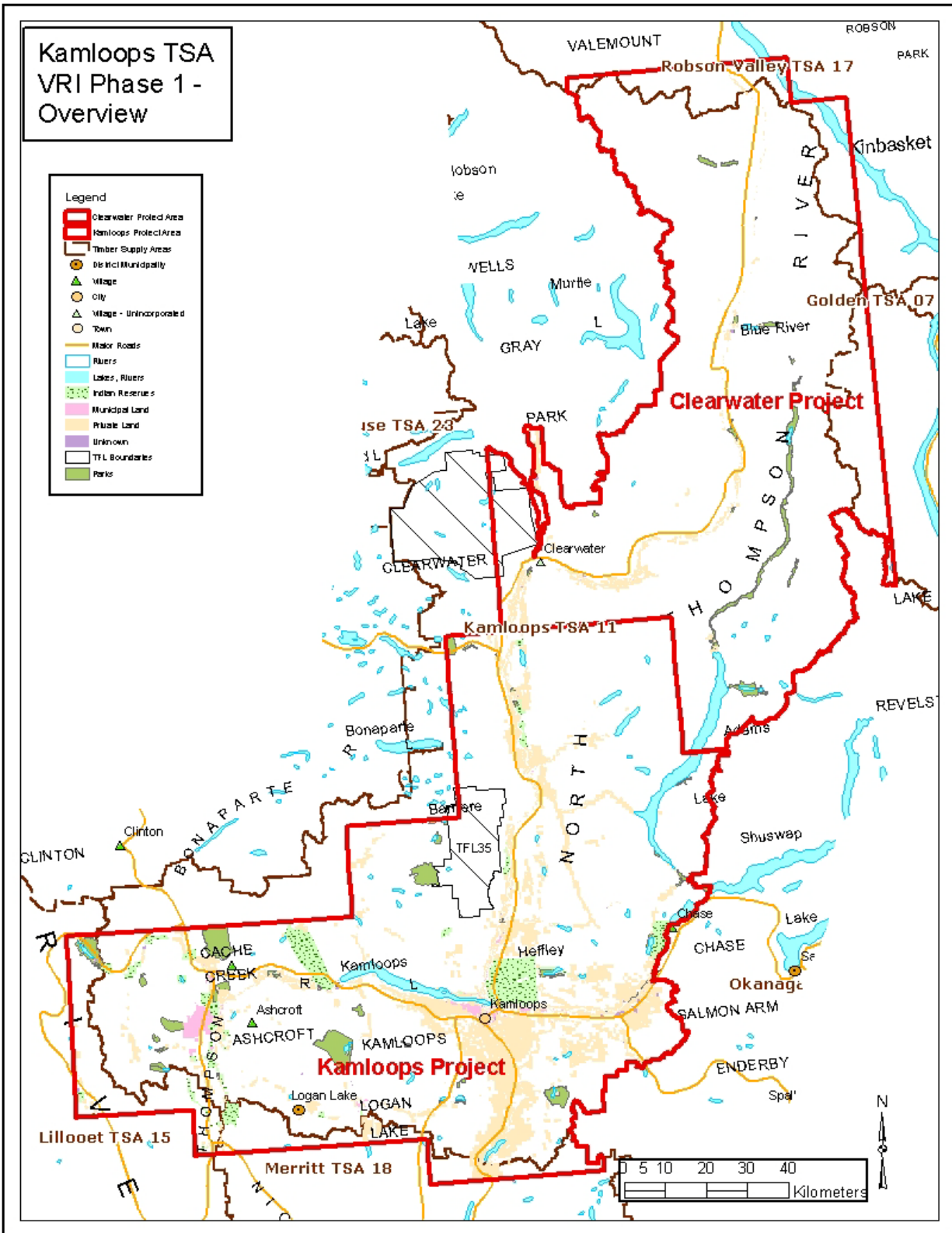


Table 1: Kamloops TSA Summary

		Area (ha)
Total Land base		2,221,035
Total Area to be Interpreted		2,154,690
Woodlots	45,397	
Community Forests	62,038	
Parks	36,637	
Area to be interpreted, but no fieldwork *	218,386	
Non-Productive (FIP Format)	584,618	
Areas not Interpreted		66,952
TFL	52,632	
Woodlots/Community Forests	14,320	

* Predominantly Private, Federal, Municipal and IR lands

Table 2: Kamloops TSA Leading Species

SPECIES	Area (ha)	% species in TSA
Other	2,586	0.2
Western Larch (Lw)	171	0.0
White Bark Pine (Pa)	244	0.0
White Pine (Pw)	3,594	0.3
Hemlock (Hm)	4,417	0.3
Cottonwood (Ac)	8,688	0.6
Paper Birch (Ep)	21,337	1.5
Hemlock (H)	35,313	2.5
Yellow (Ponderosa) Pine (Py)	43,446	2.9
Western Cedar (Cw)	67,299	4.5
Trembling Aspen (At)	54,371	4.7
Lodgepole Pine (Pl)	303,858	8.2
Balsam (B)	195,188	14.1
Engelman Spruce (S)	289,521	22.0
Douglas-Fir (Fd)	548,367	38.1
Total	1,486,677	

Note the leading species is determined using the existing inventory

The terrain and biogeoclimatic zones encompassed within the Kamloops TSA are varied. Due to elevation, steepness, aspect, moisture and latitude numerous biogeoclimatic zones are found in the TSA. The representation of these biogeoclimatic zones are shown in Table 3.

Table 3: Kamloops TSA Biogeoclimatic Zones

Biogeoclimatic Zone	Code	Ha
Bunch Grass	BG	91,424
Ponderosa Pine	PP	8,155
Interior Douglas-Fir	IDF	617,140
Montane-Spruce	MS	247,696
Sub-Boreal Pine-Spruce	SBPS	3,876
Sub-Boreal Spruce	SBS	16,236
Interior Cedar-Hemlock	ICH	473,731
Engelmann Spruce-Subalpine Fir	ESSF	612,190
Interior Mountain – Heather Alpine	IMA	77,901

These broad biogeoclimatic zones are further subdivided into subzones and variants that reflect local climatic conditions. The variants are distinguished by the different climax plant communities found on similar soil and moisture conditions.

1.2.1 Excluded Areas

Canfor's TFL 18 and West Fraser Mills TFL 35 are entirely within the boundaries of the Kamloops TSA. A VRI has been completed for TFL 18 and a VRI is being completed for TFL 35. TFL 35 and TFL 18 are approximately 36,500 ha and 74,600 ha respectively and will be excluded from the project.

Three Community Forests (CF) exist within the Kamloops TSA and a portion of a fourth exists within the total project area. The Wells Gray, Logan Lake and X'ACLUP CF will be completed with this project. The North Thompson CF had a VRI completed 2004 and will therefore be excluded from this project.

The Logan Lake CF is planning to do additional air and ground calls to add to the VRI information at their cost. For the Kamloops project planning will be done to complete the standard amount of data from air and ground calls that fall within the CF. If more data is collected within the CF this data will be collected outside of this project. If completed, it will be available to the contractor completing the Kamloops project. In conducting the project, the Logan Lake CF may contract the same company completing the Kamloops Project. Scheduling may be coordinated to work with the CF to benefit both groups.

The Kamloops TSA has 50 woodlots. The VRI project will cover all of the woodlots crown land and should cover the majority of private land as well.

The woodlots in the Kamloops Project will have the VRI completed during this project. Total area for woodlots in the Kamloops project is 33,897 ha.

A number of woodlots in the Clearwater project had a VRI completed in 2006. Clearwater Woodlot Table in appendix three identifies the woodlots that will keep the existing VRI. Total area of woodlots in the Clearwater project is 15,215 ha with 4,263 in acceptable VRI format.

The portion of Wells Gray Park within the Clearwater Project is not included within the scope of this project. Other smaller parks and protected areas will be included within the scope of the VRI in both projects. (Parks List Appendix 2).

Currently a VRI project is being completed in the 100 Mile House TSA. This project is completing 100 % of maps along the border between Kamloops and 100 Mile House TSA's which includes the portion of these maps within the Kamloops TSA.

1.3 State of the Current Inventory

The majority of the Kamloops TSA inventory was completed in the 1980s. This information was collected to the FIP standard. During the mid to late 90s a portion of the Kamloops District had attributes added to the FIP inventory to upgrade the inventory data standard to VRI. Limited new information was collected and this VRI retrofit is still largely based on the 1980s with limited new information collected around 1993.

Since the last inventory the Kamloops TSA has experienced large fire seasons in 1995, 2003 and 2009. Limited work has been done to modify the inventory in the fire areas with the exception of Reporting Silviculture Updates and Land Status Tracking System (RESULTS) data.

The last decade has seen the forests in the Kamloops TSA impacted by the MPB outbreak. This outbreak has severely impacted the Kamloops Project portion of the TSA and in the Clearwater portion where Lodgepole Pine (PI) is prevalent, significant PI mortality has resulted.

In the fire and MPB areas where subsequent salvage harvesting has taken place or the Forest For Tomorrow (FFT) program has undertaken restoration work, RESULTS submissions are required and utilized to update the inventory. The remaining portions of the fire and MPB areas will still retain the attributes of the original inventory.

The changes as a result of fires and MPB in the Kamloops TSA make it important to create a new inventory meeting VRI standards that provides more recent base data for resource management decisions.

One noted anomaly in the inventory is that 73 239 hectares of early seral stage forest in the crown productive forest land base were found to be without associated species information. It is the understanding of MFLNR staff that this occurred due to a contractor's oversight during GIS overlays in the depletion updating process. Default figures were therefore generated for 29 707 hectares using the Inventory Type Group for leading species and, for 43 533 hectares of records without a type group, the Biogeoclimatic Ecological Classification system (BEC) zones were used.

The inventory is updated for harvesting and planting activities using the Vegetation Resource Information Management System (VRIMS). Harvesting and planting information is reported by the licensees or FFT programs through RESULTS. This information updates the inventory for annual harvesting and reforestation.

1.3.1 Operational use issues

Concerns identified by District staff, licensees and First Nations in the existing inventory include:

- Leading species and species percentage in hemlock and cedar stands in the Headwaters District and the Adams drainage
- Mixed species stands with a significant PI component
- Amounts of live and deal PI
- Secondary structure or advanced regen particularly in MPB impacted stands
- High elevation stand site indices (may be under estimated)
- Attribution in Dry Belt Douglas Fir
- North Thompson Balsam/Spruce stand volume estimates (may be over estimated)
- Identification and attribution of Small Scale Salvage

The VRI will be completed at a strategic level, but the contractor will be cognisant of these concerns while photo interpreting. Specific actions required to address these issues will be determined in the photo interpretation contract and the project pre-work meeting.

2.0 Clearwater and Kamloops Project Summaries

2.1 Clearwater Project

Figure 2: Clearwater project map

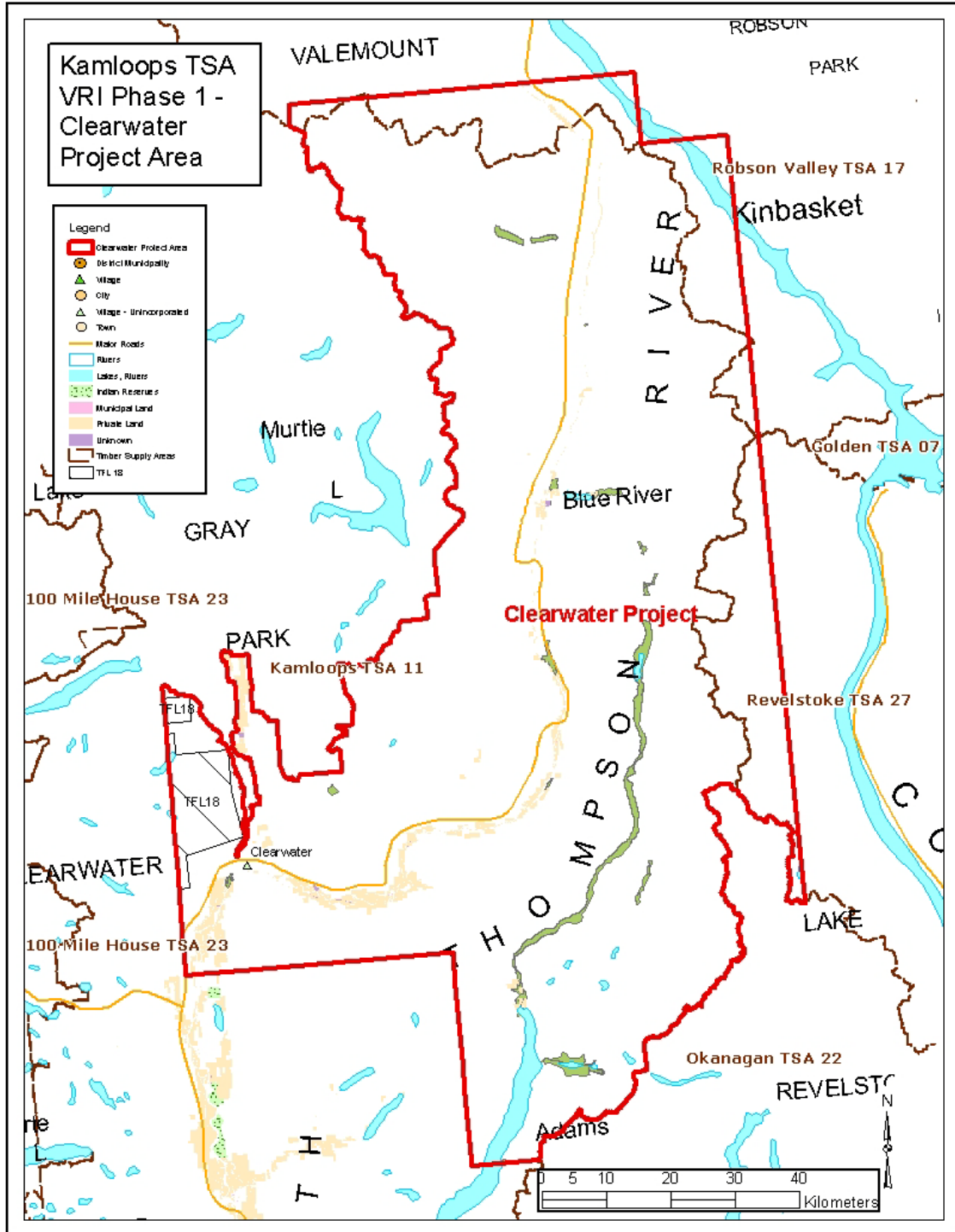


Table 4: Clearwater Project Summary

Clearwater		
Total Land base		961,596
Total Area to be Interpreted		938,724
Woodlots	11,039	
Community Forests	13,145	
Parks	10381	
Area to be interpreted, but no fieldwork*	17,299	
Non-Productive (FIP Format)	309,967	
Areas Not Interpreted		23,479
TFL 18	17,413	
Woodlots	6,066	

* predominantly Private, Federal, Municipal and IR lands

Table 5: Clearwater Project Species

SPECIES	Area (ha)	% species in Project Area
Western Larch (Lw)	101	0.0
White Bark Pine (Pa)	244	0.0
Cottonwood (Ac)	2,516	0.4
White Pine (Pw)	3,594	0.6
Hemlock (Hm)	4,417	0.7
Paper Birch (Ep)	9,863	1.6
Trembling Aspen (At)	18,766	3.1
Hemlock (H)	34,032	5.6
Western Cedar (Cw)	39,656	6.0
Lodgepole Pine (Pl)	57,543	9.4
Douglas-Fir (Fd)	92,715	15.2
Balsam (B)	150,042	24.5
Engelman Spruce (S)	197,682	32.3
Total	611,171	

Table 6: Clearwater Project Biogeoclimatic Zones

Biogeoclimatic Zone	Code	Ha
Interior Douglas-Fir	IDF	35,725
Montane-Spruce	MS	753
Sub-Boreal Spruce	SBS	8,120
Interior Cedar-Hemlock	ICH	361,602
Engelmann Spruce-Subalpine Fir	ESSF	478,422
Interior Mountain – Heather Alpine	IMA	76,974

2.2 Kamloops Project

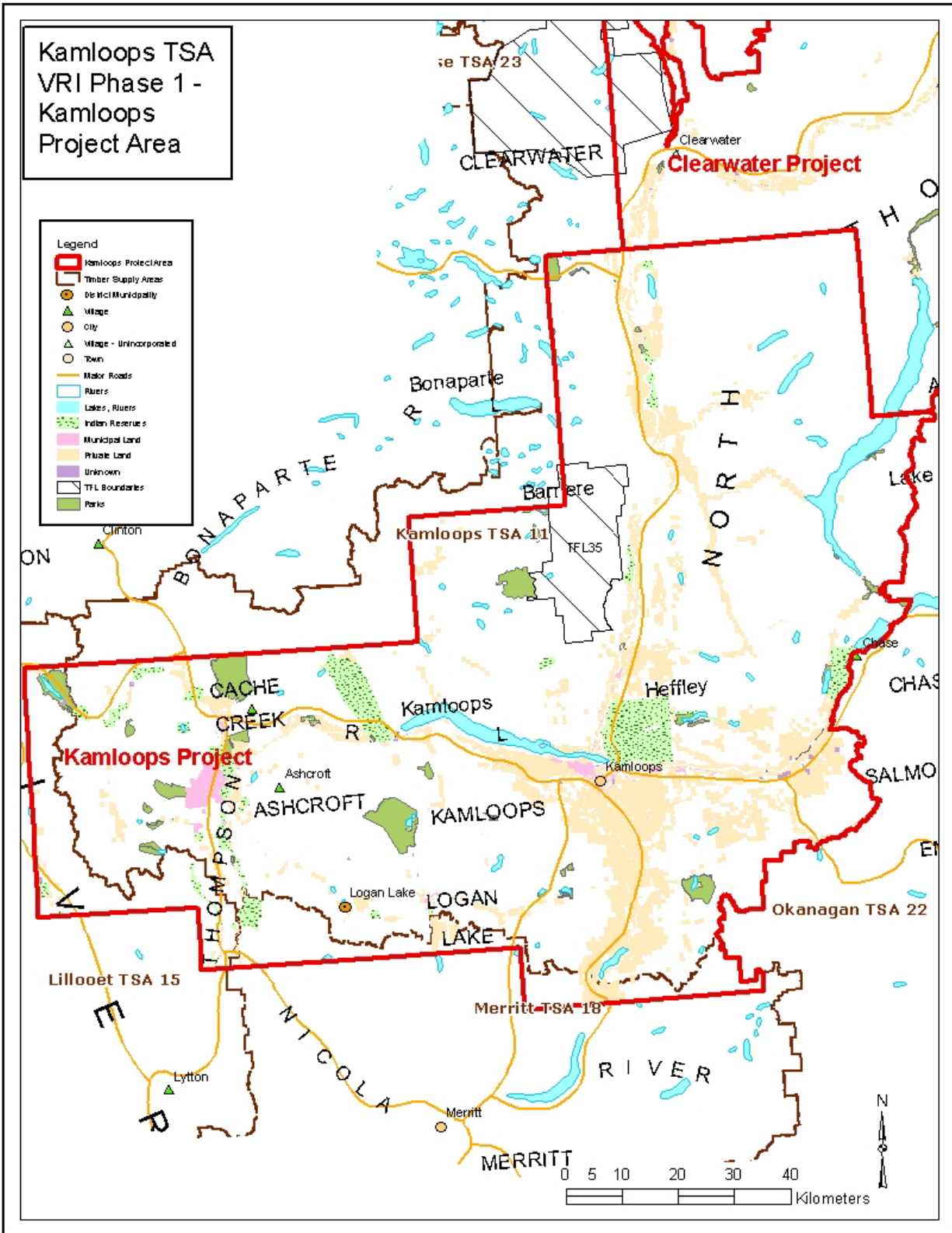


Table 7: Kamloops Project Summary

Kamloops		
Total Land base		1,259,439
Total Area to be Interpreted		1,215,966
Woodlots	34,358	
Community Forests	48,893	
Parks	26,257	
Area Interpreted but no Fieldwork*	201,087	
Non-Productive (FIP Format)	274,651	
Areas not Interpreted		43,474
TFL 35	35,219	
Community Forest	8,254	

* Predominantly Private, Federal, Municipal and IR lands

Table 8: Kamloops Project Species

SPECIES	Area (ha)	% species in Project Area
Other	2,586	0.3
Western Larch (Lw)	70	0.0
Hemlock (H)	1,281	0.1
Cottonwood (Ac)	6,172	0.6
Western Cedar (Cw)	11,199	1.2
Paper Birch (Ep)	11,474	1.2
Trembling Aspen (At)	35,605	3.7
Yellow (Ponderosa) Pine (Py)	43,446	4.6
Balsam (B)	45,146	4.7
Engelman Spruce (S)	91,839	9.7
Lodgepole Pine (Pl)	246,315	26.9
Douglas-Fir (Fd)	455,652	47.9
Total	950,785	

Table 9: Kamloops Project Biogeoclimatic Zones

Biogeoclimatic Zone	Code	Ha
Bunch Grass	BG	91,424
Ponderosa Pine	PP	80,841
Interior Douglas-Fir	IDF	581,416
Montane-Spruce	MS	246,943
Sub-Boreal Pine-Spruce	SBPS	3,876
Sub-Boreal Spruce	SBS	8,117
Interior Cedar-Hemlock	ICH	112,129

Engelmann Spruce-Subalpine Fir	ESSF	133,768
Interior Mountain – Heather Alpine	IMA	927

3.0 Photo Interpretation Plan

3.1 Project Objectives

The inventory is being conducted to create new information to VRI standards. The current VRI standards will be followed and can be located at Forest Analysis & Inventory Branch (FAIB) web site:

<http://www.gov.bc.ca/hts/vri/standards/index.htm#photo>

A key consideration is to look at areas impacted by MPB and identification/interpretation of Cedar and Hemlock. The current TSR has five partitions, deciduous, Cedar Hemlock (age class 8 and 9), pulpwood agreement, none lodgepole pine and Lodgepole pine. Important for TSR will be having enough information to properly assess these partitions. If a TSR is started over the next year, the new VRI will not be available for this review.

Shortly following the completion of the new VRI, FAIB staff will update the VRI using RESULTS data that has been submitted after the date of photography.

3.2 Target Area

The target area for VRI is the Kamloops TSA covering 2,221,035 million Ha (Kamloops Project 1,215,966 ha and Clearwater Project 938,724 ha). Due to size of the Kamloops TSA there will be two separate projects. Some areas encompassed within the TSA have recently had an inventory completed to VRI standards - TFL 18 and the North Thompson Community Forest. These areas will not be re-inventoried. TFL 35 is preparing to complete an inventory to VRI standards and will complete this project separately. The inventory will include park land and protected areas, excluding Wells Gray Park.

3.3 Aerial Photography

Forest Analysis and Inventory Branch acquired 30 cm GSD digital photography for the TSA during the summer of 2011. This new digital photography will be available to contractors in ZI Project and/or Diap formats. The images available are 3 band 8bit RGB.TJP and .SJS and 4 band 16bit RGBNiR.tif. Surface files (SDT) are available for individual map sheets as well as by letter block.

Note that the 100 Mile House VRI project is currently ongoing and photos were flown the summer of 2010 and 2011 along the Kamloops/100 Mile House TSA boundary.

3.4 Base Mapping

Base mapping is available for all project map sheets from GeoBC in Trim NAD83 format.

For the most part TRIM information will not be changed during the Kamloops VRI project. Where there are significant changes, i.e. river channel has moved or dam size increased, the interpreter will use their information, not TRIM and note that this change has been made. At the end of the project, or as appropriate the TRIM changes will be provided to GEOBC. Over the course of the project, some discussion will occur between the project manager and contractor as to what is a significant change.

3.5 Existing Calibration Data Sources

A number of existing calibration data sources is available. Over 17,000 possible separate data sources are in the current inventory. Not all of these data sources may be relevant at this time.

Existing calibration data may no longer reflect what exists on the land now due to MPB, fires, salvage logging and age of the data source.

All existing relevant data sources will be retained and transferred to the new graphics files.

3.5.1 Clearwater Project

A number of calibration data sources are available. In Clearwater project there are 484 data points are VRI. Calibration information outside of the Lodgepole pine areas should better reflect the current inventory, excluding harvesting.

There are 6,042 calibration data sources collected to complete the FIP inventory. The majority of this information was collected in the early 80s and some in the 60s. Relevant information will be transferred.

3.5.2 Kamloops Project

In the Kamloops Project there are 336 VRI calibration data sources. The majority of these points are associated with field work completed around 1993 to complete an upgrade of the inventory to VRI standards.

There are 10,366 calibration data sources collected to complete the FIP inventory. The majority of this information was collected in the early 80s and some in the 60s. Relevant information will be transferred.

3.6 Integrating RESULTS Information

Silviculture opening data that exists in RESULTS will be integrated into the photo

interpreted inventory. Forest Analysis and Inventory Branch will provide a copy of the RESULTS Shape files at the start of the contract. The integration process will follow the requirements outlined in the most current VRI Standards.

3.7 New Field Calibration

A data source review and analysis will need to be completed to determine the type, number and locations for new calibration data.

All field calibration (Air Calls and Ground Calls) data collection will be completed to the most current MFLNRO VRI Standards. The guideline set out for new calibration in the VRI Field Calibration Standards is for the establishment of a minimum 10 ground calls and 20 air calls per full map sheet equivalent (FME).

Prior to the initiation of the field calibration program, a Field Calibration Plan (FCP) will be prepared in accordance with the VRI guidelines and submitted by the contractor to the Project Manager for approval. This plan should include a map of the unit documenting the general location and distribution of the calibration points.

3.8 Dead tree attribute collection

Attribute information on stands that have significant amounts of dead standing timber will be collected. This will apply to all stands that the photo interpreters estimate having more than 30% mortality, based on density. In these stands, snags/ha will be estimated as per the standards and the contractor will create a new "Layer D" and collect the following attributes on the dead standing timber:

- Species composition
- Age of leading
- Height of leading
- Basal area
- Stems/ ha
- Crown closure (estimated as % of stems/ha affected)
- Disturbance type

The main areas that will be included are insect infestation and wildfire.

With the dead wood layer FAIB is trying to address identified issues in forest management and accounting for catastrophic tree mortality. The Kamloops TSA VRI project will be the first experience with interpreting this information. Over the course of the project, there may be adjustment to the attributes collected and how they are collected to best reflect the data base needs in resource management decisions.

4.0 Project Implementation Plan

Both projects, subject to funding and available resources, are scheduled to occur over the next 3 years. The Kamloops TSA VRI will begin the spring of 2012 with delineation in the Kamloops Project portion of the TSA. The Clearwater Project portion will begin late spring or early summer of 2012, though it may begin earlier, depending on contractor availability and FAIB resources. Attribution for both projects will take up to two years to complete with attribution and corresponding field work occurring summers 2012 and 2013 for Kamloops and Clearwater Projects. Finalization and delivery of the VRI to FAIB will occur February 28, 2015.

4.1 Pre-work Meeting

A pre-work meeting is required each year as part of this project. The pre-work meeting will involve the VRI Project Manager, the Phase 1 contractor and the 3rd party QA contractor.

4.2 Project Schedule

Year One Project Schedule 2012 - 2013

Clearwater Project

Project Component	Milestone Date	Comments
Pre-work Meeting	June/July, 2012	
Delivery of map work/delivery schedule	July, 2012	
Polygon delineation, data source transfer	Aug, 2012	Following map work/delivery schedule
Delivery Calibration Plan	Aug, 2012	
Field Calibration data collection	Oct 15, 2012	Work according to map delivery plan completed.
Delivery of fully attributed maps 2012 calibration field work	March 15, 2013	Maps will come in according to map work/delivery schedule

Kamloops Project

Project Component	Milestone Date	Comments
Pre-work Meeting	June, 2012	
Delivery of map work/delivery schedule	June /July, 2012	
Polygon delineation, data source transfer	July, 2012	Following map work/delivery schedule
Delivery Calibration Plan	July/Aug, 2012	
Field Calibration data collection	Oct 31, 2012	Work according to map delivery plan completed.
Delivery of fully attributed maps 2012 calibration field work	March 15, 2013	Maps will come in according to map work/delivery schedule

Year Two Project Schedule 2013 - 2014

Clearwater Project

Project Component	Milestone Date	Comments
Pre-work Meeting	April, 2013	

Kamloops Project

Project Component	Milestone Date	Comments
Pre-work Meeting	April, 2013	

Delivery Calibration Plan	May, 2013	
Field Calibration data collection	Oct, 2013	Work according to map delivery plan completed.
Polygon delineation, data source transfer	July 31, 2013	Completed for Headwaters project
Delivery of fully attributed maps 2013 calibration field work	March 1 2014	Maps will come in according to map work/delivery schedule

Delivery Calibration Plan	May, 2013	
Field Calibration data collection	Oct/Nov, 2013	Work according to map delivery plan completed.
Polygon delineation, data source transfer	July, 2013	Completed for Kamloops project
Delivery of fully attributed maps 2013 calibration field work	March 1 2014	Maps will come in according to map work/delivery schedule

Year Three Project Schedule 2014 -2015

Clearwater Project

Project Component	Milestone Date	Comments
Pre-work Meeting	April, 2014	
Delivery of fully attributed maps 2014 calibration field work and all final information to standard	Feb 28, 2015	Maps will come in according to map work/delivery schedule

Kamloops Project

Project Component	Milestone Date	Comments
Pre-work Meeting	April , 2014	
Delivery of fully attributed maps 2014 calibration field work and all final information to standard	Feb 28, 2015	Maps and final products will come in according to map work/delivery schedule – end of Headwaters project

4.3 Quality Assurance

It will be the responsibility of the Project Coordinator to ensure that all VRI Phase I Standards and Procedures are followed. To this end, a qualified independent (of the primary Contractor) company or individual will conduct all required Quality Assurance. The QA contractor will be in place before the project starts and will attend the Pre-work meeting.

The QA contractor will conduct the QA for the field data collection, polygon delineation and attribute estimation. Efforts must be made to sample a portion of the work done by each crew or photo interpreter. In addition to providing a QA role, the intent is that he will also provide project technical support and mentoring and monitor the work to ensure that the procedures and standards for VRI work are being followed as detailed in the contract.

The QA contractor will develop a schedule for the work that is designed to ‘shadow’ the photo interpretation contractor’s delivery. Timely follow up by the QA contractor and good communication with all project team members will be a condition of this contract.

The QA contractor will be responsible for providing complete records of QA activities to the Project Coordinator. The project coordinator will be responsible for distribution of the QA results and issuing any rework instructions.

4.4 Deliverables

The following is a list of products that will be completed during this project. At each stage, project coordination, photo interpretation and quality control work, and all project deliverables will be signed off by a Registered Professional Forester. The project manager will receive all deliverables from the contractor(s)

- Complete VRI data files in the format specified in “VRI Phase 1 Digital Data Deliverables Format” Standards (VRIMS Personal Geodatabase).
- Hardcopy tally sheets or digital equivalent for each ground and air calibration point;
- Digital field summary for all new and relevant historic calibration points per MFR VRI requirements. (This is for the VRI “Calibration Tile”);
- Photo Interpretation Project Completion Report ;
- QA Contractor documentation for each phase of the VRI project

5.0 Projected phases VRI Photo Interpretation and Quality Assurance

Table 10 Clearwater Project Phases

VRI Activity	Project	Units
Photo Acquisition 1: 20000 digital photography		
Phase 1 interpretation		62 maps
Data Transfer	Clearwater	6,592
Delineation	Clearwater	62
Field Calibration		
Air Call	Clearwater	1,240
Ground Call		
1 point	Clearwater	483
3 point	Clearwater	322
Attribution/mapping	Clearwater	62
QA contract	Clearwater	62
Total	Clearwater	

Table 11 Kamloops Project Phases

VRI Activity	Project	Units
Photo Acquisition 1: 20000 digital photography		
Phase 1 interpretation		80 maps
Data Transfer	Kamloops	10,615
Delineation	Kamloops	80
Field Calibration		
Air Call	Kamloops	1,600
Ground Call		
1 point	Kamloops	486
3 point	Kamloops	325
Attribution/mapping	Kamloops	80
QA contract	Kamloops	80
Total	Kamloops	

6.0 Project Sign-off Sheet

Kamloops Timber Supply Area Vegetation Resource Inventory Photo Interpretation Project Plan

I have reviewed the Kamloops Timber Supply Area Vegetation Resource Inventory Photo Interpretation Project Plan. I will be advising the appropriate contacts that the work proposed in this plan meets Vegetation Resource Inventory Standards and MFLNRO business needs.

Pat martin, RPF

Date

Manager,
Forest Inventory and Monitoring Section,
Forest Analysis and Inventory Branch
Ministry of Forests, Lands & Natural Resource Operations

APPENDIX 1

Clearwater

Mapsheet	Polygon Count	Area (ha)	NP Area	Number of VRI Air Calls	Number of VRI Ground Calls	Number of Air Calls	Number of Ground Calls
082M023	1333	14483.85	3362.49	5	194	44	35
082M024	389	6007.06	318.47	2		18	2
082M033	906	15501.87	3068.42			60	38
082M034	839	15342.96	774.07			42	31
082M035	241	35555.69	83.14	1	1	11	3
082M043	949	15468.37	762.03		26	56	49
082M044	906	15468.37	1005.76			31	28
082M045	771	14780.28	592.19			27	30
082M046	115	1935.74	55.06		1	5	
082M051	940	14817.49	2461.59		4	52	48
082M052	885	15434.82	1677.92			23	91
082M053	826	15434.82	801.34			31	47
082M054	547	15434.82	631.77			52	43
082M055	709	15434.82	3877.07			45	53
082M056	126	4160.56	2790.53	1	2	10	
082M061	1112	14683.56	1744.35		13	41	84
082M062	1160	15401.22	1437.75			73	55
082M063	930	14614.35	1175.93		9	45	94
082M064	748	14922.85	587.76		7	35	55
082M065	636	15391.92	4512.68			37	56
082M066	307	7215.45	4801.00	2		43	12
082M071	557	11272.36	1986.69		3	59	27
082M072	809	15367.57	834.92			98	21
082M073	1079	15367.57	522.93			100	78
082M074	952	15367.57	1754.95			90	32
082M075	588	15367.57	4777.24			61	45
082M076	354	15367.57	11965.53			50	18
082M081	159	2419.34	145.41			14	10
082M082	710	14291.75	919.76			93	36
082M083	1165	15333.88	1244.90			79	28
082M084	1288	15333.88	1737.33			112	85

Mapsheet	Polygon Count	Area (ha)	NP Area	Number of VRI Air Calls	Number of VRI Ground Calls	Number of Air Calls	Number of Ground Calls
082M085	694	15333.88	3333.12			87	53
082M086	647	15333.88	10309.58			103	47
082M091	3	11.40	0.31				
082M092	316	5427.48	403.78			19	13
082M093	890	15005.52	1077.90			69	40
082M094	913	15300.13	1230.41			120	96
082M095	808	15300.13	4066.90			95	60
082M096	551	15300.13	10258.72			119	24
083D003	739	11171.89	732.90			41	57
083D004	839	15266.34	2502.54			65	138
083D005	586	15266.34	8296.02			46	24
083D006	285	15266.34	13087.74			10	4
083D013	316	7786.75	3043.89			37	23
083D014	604	15232.50	3290.82			64	107
083D015	522	15232.50	8267.97			50	35
083D016	210	15232.50	13541.73			19	
083D023	192	7909.62	6305.61			23	3
083D024	519	15198.61	5964.80			68	71
083D025	583	15198.61	5452.70			68	82
083D026	286	15198.61	11142.21			37	1
083D033	142	8393.05	7053.42			12	1
083D034	478	15164.67	7055.79			41	39
083D035	504	15164.67	6819.82			62	69
083D036	264	15164.67	11725.46			27	4
083D042	13	1230.37	1144.18				
083D043	451	14535.51	9236.65			43	5
083D044	620	15130.68	4185.70			82	94
083D045	663	15130.68	5892.00			56	82
083D046	361	15130.68	11185.75			21	3
083D052	95	6658.12	5565.75			8	2
083D053	475	15096.65	6285.12			63	39
083D054	455	15096.65	7091.00			43	47
083D055	677	15096.65	4202.14			64	51
083D056	758	15096.65	6943.57			56	48
083D062	217	13210.64	8980.80				
083D063	275	15062.56	12207.54			13	7

Mapsheet	Polygon Count	Area (ha)	NP Area	Number of VRI Air Calls	Number of VRI Ground Calls	Number of Air Calls	Number of Ground Calls
083D064	716	15062.56	7395.99			46	14
083D065	809	15062.56	7242.45			50	42
092P060	1303	14858.93	1846.31		9	55	62
092P070	942	10289.50	2120.60		9	23	51
092P080	246	1978.61	59.96		7	18	11
092P090	722	7489.53	626.56		6	31	8
092P100	176	1666.79	377.70		4		4
Totals	44901	970724.47	306602.40	11	295	3491	2795

Kamloops

Mapsheet	Polygon Count	Area (ha)	NP Area	Number of VRI Air Calls	Number of VRI Ground Calls	Number of Air Calls	Number of Ground Calls
082L041	87	1106.13	43.45			5	10
082L051	737	12906.80	1416.57		1	19	90
082L052	369	4831.30	231.45		2	1	42
082L061	721	15735.00	6645.62		1	9	86
082L062	489	7085.40	750.21	1	1	26	54
082L071	1122	15701.85	4066.18			104	144
082L072	212	4386.78	3223.44		1	5	15
082L081	1113	15668.64	2364.63			186	119
082L082	671	12502.27	4677.56			83	95
082L083	52	965.17	197.49			1	7
082L091	909	15635.39	792.02			188	51
082L092	881	15421.42	1292.67			140	98
082L093	300	2650.88	54.42		2	19	15
082M001	1195	15602.08	600.24			191	56
082M002	829	15602.08	3206.82			77	61
082M003	344	5737.35	259.20	2	2	13	16
082M011	988	13108.93	1202.50		3	64	57
082M012	1353	15568.73	2745.65	23	144	46	75
082M013	426	8277.44	1822.96	1	2	28	41
082M021	760	9910.19	940.99		3	47	104
082M022	952	15518.66	750.23			83	95
082M023	45	0.39	0.19		6		
082M031	833	15501.87	1533.19			97	112
082M032	994	15501.87	1120.09			96	83
082M041	747	15468.37	3924.76			100	53
082M042	919	15468.37	2925.88			106	80
092I038	848	15834.17	2825.77			78	94
092I039	734	15834.17	6062.82			18	92
092I040	921	11078.87	1004.90			24	90
092I044	553	15801.17	3903.81			19	51
092I045	1241	15801.17	3581.97			49	82
092I046	1173	15801.17	3701.25			42	85
092I047	1223	15801.17	6262.59			28	159
092I048	1375	15801.17	1200.20		1	13	155

Mapsheet	Polygon Count	Area (ha)	NP Area	Number of VRI Air Calls	Number of VRI Ground Calls	Number of Air Calls	Number of Ground Calls
092I049	709	15801.17	9290.01		1	10	62
092I050	1117	12959.10	1287.18			37	115
092I052	889	15768.11	1881.36			26	42
092I053	1268	15768.11	646.10			31	20
092I054	863	15768.11	3353.77	2		28	50
092I055	977	15768.11	2492.32			34	41
092I056	1299	15768.11	1853.72			27	88
092I057	1235	15768.11	717.29			32	112
092I058	1220	15768.11	1467.22		1	21	171
092I059	732	15768.11	8899.16		1	5	47
092I060	982	15768.11	2954.42		3	26	137
092I062	1138	15735.00	3117.70			74	38
092I063	1324	15735.00	3330.44	2		54	53
092I064	798	15735.00	9252.85		3	11	39
092I065	1200	15735.00	789.94		2	48	66
092I066	1200	15735.00	1452.19		2	34	82
092I067	1049	15735.00	1294.91			20	154
092I068	727	15735.00	7830.85		3	9	81
092I069	517	15735.00	12109.00			1	15
092I070	703	15735.00	8173.45			7	72
092I072	1260	15701.85	2429.12		1	48	30
092I073	1139	15701.85	3447.79	4		41	46
092I074	695	15701.85	11145.34	2		8	30
092I075	791	15701.85	8098.84	2	1	14	44
092I076	676	15701.85	9286.70		3	18	49
092I077	627	15701.85	8646.66			19	25
092I078	536	15701.85	9626.44			10	36
092I079	598	15701.85	9804.76	2		15	29
092I080	1062	15701.85	2685.93			99	145
092I082	1077	15668.64	1561.85	2		46	13
092I083	981	15668.64	1756.02			21	71
092I084	837	15668.64	4829.90			41	33
092I085	911	15668.64	1003.12			55	68
092I086	899	15668.64	2417.08			47	85
092I087	1283	15668.64	892.01			31	83
092I088	1236	15237.96	1093.32			24	107

Mapsheet	Polygon Count	Area (ha)	NP Area	Number of VRI Air Calls	Number of VRI Ground Calls	Number of Air Calls	Number of Ground Calls
092I089	841	14863.75	6407.17			15	70
092I090	1182	15668.64	1698.40			123	100
092I097	1212	15635.39	711.19			49	94
092I098	929	10581.61	797.66			32	35
092I099	570	8118.72	1843.33			11	32
092I100	1230	15635.39	2234.02			77	95
092P007	1302	15602.08	1065.23			50	118
092P008	1057	11993.11	1005.15			66	52
092P009	390	5263.28	1342.04			9	32
092P010	1066	15602.08	1904.62			109	87
092P019	727	8103.23	3943.72			32	51
092P020	1041	15568.73	5993.04			59	72
092P029	1529	15535.32	3126.77			63	107
092P030	996	15382.66	2352.46			48	67
092P039	1565	15501.87	833.57			97	129
092P040	938	15501.87	2699.04			54	40
092P049	1359	15468.37	1495.51			49	204
092P050	1109	15468.37	1945.97			83	48
Total	79714	1215965.60	277649.37	43	190	4103	6279

APPENDIX 2

Parks/Protected Areas

Blue Earth Lake	705
Oregon Jack	233
Bedard Aspen	173
Cornwall Hills	1,188
Harry Lake Aspen	330
Arrowstone	6,203
Elephant Hill	995
Juniper Beach	260
Tunkwa	5,100
Walhachin Oxbows	37
Steelhead	38
Mount Savona	382
Greenstone Mountain	124
Dunn Peak	19,353
Chu Chua Cottonwood	100
North Thompson Islands	79
High Lakes Basin	560
Emar Lakes	1,604
Eakin Creek Canyon	10
Eakin Creek Flood Plain	126
Pritchard	15
Banana Island	10
Paul Lake	670
Niskonlith Lake	238
Roderick Haig-Brown	1,076
Adams Lake – Bush Creek	56
Adams Lake – Spillman	139
Adams Lake – Poplar	32
Wallop Lake	55
Lac Le Jeune	213
McConnell Lake	102
Painted Bluffs	100
Castle Rock Hoodoos	34
Bonaparte	11,811
Tsintsunko Lake	333
Porcupine Meadows	2,704
North Thompson Oxbows Jensen Island	30
Roche Lake	2,041
Monte Creek	2

Six Mile Hill	151
Lac Du Bois Grass Lands	15,000
Buse Lake	228
Taweel Lake	4,558
	77,198

Upper Adams River	5,733
Harbour-Dudgeon	375
Wire Cache	50
Finn Creek	303
Mud Lake Delta	500
Blue River Black Spruce	175
Blue River Pine	26
Pyramid Creek Falls	13
North Thompson Oxbows Manteau	515
North Thomson Oxbows East	293
Caligata Lake	153
North Thompson River	126
Momich Lakes	1,848
Adams Lake-Refuge Bay	43
Oregana Park	
	10,153

Wells Gray	540,000
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APPENDIX 3

Woodlot List

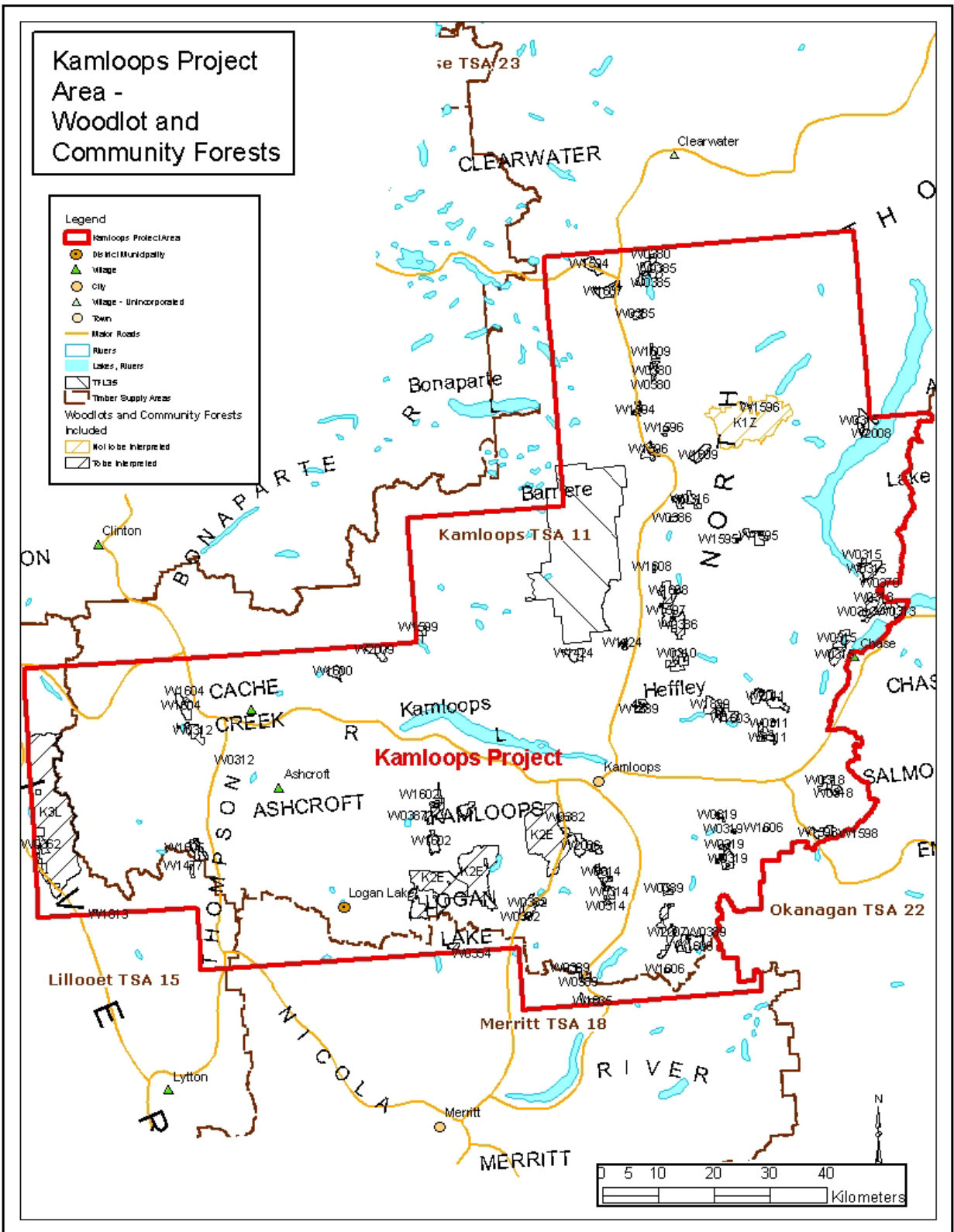
Kamloops Project Woodlots

FOREST_FILE	AREA	VRI	INVENTORY STANDARD	REFERENCE YEAR	PROJECT	
W0310	197.71	N	F		COMPLETE	
W0310	292.96	N	F		COMPLETE	
W0310	241.16	N	F		COMPLETE	
W0310	56.01	N	F		COMPLETE	
W0310	164.55	N	F		COMPLETE	
W0311	132.01	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0311	65.64	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0311	272.41	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0311	263.74	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0312	600.67	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0312	0.25	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0313	392.89	N	F		COMPLETE	
W0313	433.46	N	F		COMPLETE	
W0313	242.24	N	F		COMPLETE	
W0313	110.12	N	F		COMPLETE	
W0313	160.21	N	F		COMPLETE	
W0314	187.41	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0314	110.45	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0314	126.90	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0314	51.59	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0314	54.26	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0314	197.76	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0314	106.03	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0315	458.05	N	F	1990	COMPLETE	
W0315	44.88	N	F	1990	COMPLETE	
W0315	71.24	N	F	1990	COMPLETE	
W0315	25.57	N	F	1990	COMPLETE	
W0315	598.86	Y/N	V/F	2000/1988	ADAMS LAKE VRI	
W0315	850.43	N	F	1990	COMPLETE	
W0315	632.69	N	F	1990	COMPLETE	
W0316	280.59	Y	V	2004	COMPLETE	FIRE MAPPING
W0316	319.29	Y/N	V/F	2004/1987	COMPLETE	FIRE MAPPING
W0316	64.19	N	F	1995	COMPLETE	
W0318	281.48	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT

FOREST_FILE	AREA	VRI	INVENTORY STANDARD	REFERENCE YEAR	PROJECT	
W0318	318.90	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0318	165.60	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0318	284.78	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0319	121.81	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0319	75.43	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0319	42.19	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0319	517.44	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0319	68.74	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0319	21.12	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0354	200.07	N	F			Merritt TSA
W0362	28.91	N	F			Merritt TSA
W0362	284.03	N	F			Merritt TSA
W0380	279.91	N	F		COMPLETE	
W0380	42.73	N	F		COMPLETE	
W0380	58.85	N	F		COMPLETE	
W0380	161.08	N	F		COMPLETE	
W0380	29.21	N	F		COMPLETE	
W0380	244.30	N	F		COMPLETE	
W0380	149.93	N	F		COMPLETE	
W0382	132.28	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0382	597.87	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0382	110.99	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0382	178.52	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0382	65.37	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0385	326.33	N	F		COMPLETE	
W0385	254.30	N	F		COMPLETE	
W0385	190.35	N	F		COMPLETE	
W0386	98.58	N	F		COMPLETE	
W0386	129.56	N	F		COMPLETE	
W0386	614.76	N	F		COMPLETE	
W0387	334.93	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0387	1.87	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0387	10.99	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0387	56.99	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0387	202.87	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0387	58.52	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0387	4.41	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0389	125.46	N	F	1992	COMPLETE	
W0389	230.37	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W0389	128.76	N	F	1992	COMPLETE	

FOREST_FILE	AREA	VRI	INVENTORY STANDARD	REFERENCE YEAR	PROJECT	
W0389	229.13	N	F	1992	COMPLETE	
W0389	324.00	N	F	1992	COMPLETE	
W0389	231.86	N	F	1992	COMPLETE	
W1424	170.07	N	F	1995	COMPLETE	
W1424	32.68	N	F	1967	COMPLETE	
W1424	576.48	Y/N	V/F	1995/1968	COMPLETE	RETROFIT
W1424	119.33	N	F	1995	COMPLETE	
W1594	597.98	N	F		COMPLETE	
W1594	211.62	N	F		COMPLETE	
W1595	22.57	N	F	1982	COMPLETE	
W1595	21.37	N	F	1990	COMPLETE	
W1595	597.00	Y	V	2005	COMPLETE	
W1595	54.59	N	F	1990	COMPLETE	
W1596	585.29	Y/N	V/F	2000/1995		
W1596	55.02	N	F	1990	COMPLETE	
W1596	30.95	N	F	1995	COMPLETE	
W1596	19.10	Y	V	2004	LOWER NORTH THOMPSON	
W1596	60.83	N	F	1995	COMPLETE	
W1597	30.21	N	F		COMPLETE	
W1597	594.79	N	F		COMPLETE	
W1597	66.42	N	F		COMPLETE	
W1597	32.35	N	F		COMPLETE	
W1597	78.39	N	F		COMPLETE	
W1598	29.88	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1598	151.38	N	F	1977	COMPLETE	
W1598	578.80	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1599	411.12	N	F	1995	COMPLETE	
W1600	441.44	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1601	536.66	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1602	222.13	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1602	597.46	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1603	130.50	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1603	60.10	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1603	528.17	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1603	33.65	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1604	91.43	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1604	84.91	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1604	601.03	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT

FOREST_FILE	AREA	VRI	INVENTORY STANDARD	REFERENCE YEAR	PROJECT	
W1604	24.77	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1605	48.53	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1605	371.00	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1605	79.32	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1606	64.86	N	F	1992	COMPLETE	
W1606	65.69	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1606	589.63	N	F	1992	COMPLETE	
W1607	5.81	N	F		COMPLETE	
W1607	617.80	N	F		COMPLETE	
W1607	54.39	N	F		COMPLETE	
W1608	603.88	N	F		COMPLETE	
W1608	63.77	N	F		COMPLETE	
W1608	111.40	N	F		COMPLETE	
W1609	245.32	N	F	1995	COMPLETE	
W1609	591.22	N	F	1993	COMPLETE	
W1635	162.60	N	F			Merritt TSA
W1635	99.51	N	F			Merritt TSA
W1813	143.66	N	F			Merritt TSA
W1827	12.45	N	F			Merritt TSA
W1839	596.64	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W1839	329.60	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT
W2006	1187.29	Y	V	1997	COMPLETE	KAMLOOPS RETROFIT proposed
W2007	1199.42	Y/N	V/F	1997/1992	COMPLETE	KAMLOOPS RETROFIT proposed
W2008	142.49	Y	V	2000	ADAMS LAKE VRI	proposed
W2008	377.90	Y/N	V/F	2000/1991	ADAMS LAKE VRI	proposed
W2009	646.87	Y/N	V/F	1997/1995	KAMLOOPS RETROFIT	proposed
W2011	1183.77	Y	V	1997	KAMLOOPS RETROFIT	proposed
	33897.09					



Clearwater Project Woodlots

WOODLOT NUMBER	AREA	VRI	INVENTORY STANDARD	REFERENCE YEAR	PROJECT
W0300	186.18	N			
W0300	64.71	N			
W0300	407.47	N			
W0301	27.89	N	F	1967	COMPLETE
W0301	335.22	Y	V	2006	KEEP
W0301	249.02	Y	V	2006	KEEP
W0302	280.18	Y	V	2006	KEEP
W0302	34.61	N	F	1991	COMPLETE
W0302	275.04	Y	V	2006	KEEP
W0302	60.36	Y	V	2006	KEEP
W0303	590.80	N			COMPLETE
W0303	92.23	N			COMPLETE
W0304	85.98	N	F	1990	COMPLETE
W0304	599.53	Y	V	2006	KEEP
W0305	66.39	N	F	1991	COMPLETE
W0305	303.81	Y	V	2006	KEEP
W0305	295.94	Y	V	2006	KEEP
W0307	74.44	Y	V	2004	COMPLETE
W0307	602.51	Y	V	2004	COMPLETE
W0307	32.76	Y	V	2004	COMPLETE
W0309	491.07	N			COMPLETE
W0309	425.96	N			COMPLETE
W0309	63.13	N			COMPLETE
W0309	8.48	N			COMPLETE
W0309	20.71	N			COMPLETE
W0309	32.43	N			COMPLETE
W0710	315.86	Y	V	2006	KEEP
W0710	42.63	N	F	1995	COMPLETE
W0710	293.87	Y	V	2006	KEEP
W0710	16.43	N	F	1995	COMPLETE
W0710	32.70	N	F	1995	COMPLETE
W1434	54.13	N	F	1990	COMPLETE
W1434	598.37	Y	V	2006	KEEP
W1434	11.09	N	F	1990	COMPLETE
W1434	26.20	N	F	1967	COMPLETE
W1434	47.69	N	F	1990	COMPLETE

WOODLOT NUMBER	AREA	VRI	INVENTORY STANDARD	REFERENCE YEAR	PROJECT
W1434	312.38	N	F	1985	COMPLETE
W1434	16.10	N	F	1990	COMPLETE
W1434	18.98	N	F	1985	COMPLETE
W1434	8.88	N	F	1989	COMPLETE
W1434	24.03	N	F	1991	COMPLETE
W1434	1.55	N	F	1990	COMPLETE
W1434	3.54	N	F	1985	COMPLETE
W1434	37.96	N	F	1985	COMPLETE
W1434	48.12	N	F	1990	COMPLETE
W1434	10.05	N	F	1985	COMPLETE
W1434	3.35	N	F	1985	COMPLETE
W1589	655.33	Y	V	2000	KEEP
W1589	59.32	N	F	1995	COMPLETE
W1589	193.80	N	F	1985	COMPLETE
W1590	64.02	N			COMPLETE
W1590	121.62	N			COMPLETE
W1590	423.81	N			COMPLETE
W1590	101.29	N			COMPLETE
W1590	76.38	N			COMPLETE
W1591	649.53	N			COMPLETE
W1667	150.12	N	F	1985	COMPLETE
W1667	609.91	Y	V	2006	WL1667
W1667	59.90	N	F	1985	COMPLETE
W1667	44.56	N	F	1967	COMPLETE
W1667	59.51	N	F	1967	COMPLETE
W1836	504.44	Y	V	2005	COMPLETE
W1836	15.56	Y	V	2005	COMPLETE
W1836	13.47	Y	V	2005	COMPLETE
W1857	272.16	Y	V	2005	COMPLETE
W1857	20.28	Y	V	2005	COMPLETE
W2008	0.23	Y	V	2000	ADAMS LAKE VRI
W2070	911.47	N			COMPLETE
W2090	970.14	N			COMPLETE
W2091	1607.57	N			COMPLETE
	28360.55				

