

## Addendum to RISS-gf RESULTS Fertilization Submission Requirements

### Background

*RESULTS Information Submission Specifications – Government Funded Silviculture Activities* (RISS-gf) outlines aerial fertilization activity reporting requirements<sup>1</sup>. The RISS-gf is under revision, and the next update will include additional reporting requirements as described in this document.

Four additional RESULTS reporting requirements related to the fertilization treatments will be included in the updated RISS-gf:

1. **Reporting area and map used to provide initial assessment of potential fertilization treatment opportunities.** Mapping the entire area that was assessed for fertilization (both eligible for fertilization and not-treated area) minimizes risk for subsequent duplicative review and expenditures on the same area.
2. **Reporting future planned fertilization treatment areas.** Any current year's fertilization program may be limited in time, resources or finances. During the assessment of potential fertilization areas, any candidate fertilization treatment areas that cannot be treated in the current year should be identified. This preserves the investments made in reviewing these areas and allows for easy identification and efficient deployment of fertilization when funding and resources become available. Suitable candidate sites that may be eligible in the future can be also identified and post-dated to the appropriate planned year (e.g., for candidate sites within an assessed area that are predicted to meet specific criteria within a given number of years, an estimated planned date is submitted for the fertilization treatment. Guidance on what is the maximum planned date threshold is specified in the associated contact).
3. **Reporting ground based fertilization areas for stand growth enhancement** as part of actual ground-based fertilization treatment (excluding at-time-of-planting fertilizers). This ground based fertilization is specific to certain coastal districts only.
4. **Storage of documents related to significant investments in aerial fertilization include background survey work and treatment prescriptions.** Historically, supporting documents were sent to the district office and/or retained at the recipient's office, where they were subject to being misplaced or could not be easily retrieved for anyone external to the office.

*Licensees with area-based tenures* are not required to complete the fertilization assessment area and future planning reporting requirements given that they have continuity and consistent management of the land base. Assessed fertilization areas, future planned fertilization areas, and other required documents (e.g., prescriptions, survey work, etc.) may be retained in a paper-based or local electronic format at the licensee's office. This information must be made available to Ministry staff or fertilization program administrators, if requested. RESULTS fertilization accomplishment reporting remains a mandatory requirement.

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<sup>1</sup> See Section 6 – Broadcast Treatments of Large Areas  
<http://www.for.gov.bc.ca/hfp/publications/00220/resultsSubmission.pdf>  
July 25, 2008

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### Additional Reporting Requirements

#### 1. Fertilization Assessment Area with Map

<i>Activity</i>	
Base	SU (Survey)
Technique	FE (Fertilization)
Method	PHOTO (Air Photo Interpretation) PLOT (Plots) WALK (Walkthrough) HELI (Helicopter)
Objective	FE (Fertilization)
Funding Source	FTL (Forest for Tomorrow Licensee administered) FTM (Forest for Tomorrow Ministry administered) FIL (Forest Investment Account Licensee Administered) Other eligible funding source
Completion Date	YYYY-MM-DD
Area Treated	Total surveyed area reviewed for fertilization treatment
Inter-agency No	Forest Investment Account or Forest for Tomorrow - interagency number provided by used by FIRS – Price Waterhouse Cooper system
Project No	Will be required if Project Module within RESULTS becomes mandatory as of 2008/09. Format derived from RESULTS: (eg. BR2007DSI001)
Activity Map (GML)	Supply GML exterior outline of surveyed area.
Comments or Attachments	Can attach details regarding survey assessments, GPS etc. Maximum size limit of attachment is 4 Megabytes

Individual prescription areas are not reported here because the results of the activities carried out are reflected in either planned and/or completed fertilization accomplishment reporting.

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### 2. Future Planned Fertilization Treatment Areas

<i>Activity</i>	
Base	FE (Fertilization)
Technique	CA (Chemical Air)
Method	FIXED (Fixed Wing) or HELI (Helicopter)
Objective	FE (Fertilization)
Funding Source	FTL (Forest for Tomorrow Licensee administered) FTM (Forest for Tomorrow Ministry administered) FIL (Forest Investment Account Licensee Administered) Other eligible funding source
Planned Date	YYYY-MM-DD
Planned Area	Total planned eligible fertilization treatable area(s)
Inter-agency No	Forest Investment Account or Forest for Tomorrow - interagency number provided by used by FIRS – Price Waterhouse Cooper system
Project No	Will be required if Project Module within RESULTS becomes mandatory as of 2008/09. Format derived from RESULTS: (eg. BR2007DSI001)
Activity Map (GML)	Supply GML exterior location(s) planned eligible fertilization treatment area.
Comments or Attachments	Can attach details regarding future fertilization stands including differences in species composition from current inventory lead species, GPS etc. Maximum size limit of attachment is 4 Megabytes

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### 3. Actual Ground-based Fertilization Treatment Areas (excluding at-time-of-planting fertilizers)

<i>Activity</i>	
Base	FE (Fertilization)
Technique	CG (Chemical Ground)
Method	BPACK (Backpack Application) GRANU (Granular Application) VMSGH (Vehicle Mount Sprayer (Gun and Hose))
Objective	NUT (Forest Nutrient Improvement)
Funding Source	FTL (Forest for Tomorrow Licensee administered) FTM (Forest for Tomorrow Ministry administered) FIL (Forest Investment Account Licensee Administered) Other eligible funding source
Completion Date	YYYY-MM-DD
Area Treated	Total fertilized area
Inter-agency No	Forest Investment Account or Forest for Tomorrow - interagency number provided by used by FIRS – Price Waterhouse Cooper system
Project No	Will be required if Project Module within RESULTS becomes mandatory as of 2008/09. Format derived from RESULTS: (eg. BR2007DSI001)
Activity Map (GML)	Supply GML exterior outline of surveyed area.
Comments or Attachments	Can attach details regarding survey assessments, GPS etc. Maximum size limit of attachment is 4 Megabytes

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### 4. Attachments

RESULTS contains an **Attachment** option where district or recipient users can attach any required preparatory information associated with the treatment activity reported for a shell opening. Examples of attachments may include: assessment documents report, maps, plot card summaries, or photos.

Advantages:

- Reduce photocopies and paper-transfers of files to district offices.
- Centralize storage of supporting documents.

RESULTS allows up to 21<sup>2</sup> attachments per opening record. Each file cannot exceed more than 4 Megabytes.

Provide meaningful file **Description**'s to allow others to identify the attachment file contents.

The screenshot shows the RESULTS application interface. At the top, there is a navigation bar with tabs for Search, Inbox, Openings, Projects, Data Submission, Admin, Event Tracking, and Reports. Below this is a sub-navigation bar with tabs for Opening Inquiry, Multi-Tenure, Stocking Standards, Activities, Projects, Forest Cover, Milestones, Land Status, and Attachments. The main content area displays form fields for Org Unit (DQU - Quesnel Forest District), Status (APP - Approved), Client (DQU 00), Name (DISTRICT MANAGER QUESNEL (DQU)), Opening (93F 039 0.0 31), Opening Id (1000), Licensee No (A65563), CP, Cut Block (1), and Timber Mark (65563). It also shows area calculations: Exhibit A Area (8.8 ha), Disturbance Gross Area (8.8 ha), NAR (8.2 ha), and Forest Cover Area (0.0 ha). Below the form is a section titled "RESULTS401 - Attachments" with a "Back" button and a table of attachments.

Description	File Name	File Size	Update	Delete	View
test1	5-Planned No Date -OKI.xml	2.64 KB	Update	Delete	View
test2	6-Completed No Date - Fail.xml	2.64 KB	Update	Delete	View
test3	6-Completed No Date - Fail.xml	2.64 KB	Update	Delete	View
test4	6-Completed No Date - Fail.xml	2.64 KB	Update	Delete	View
test5	8-Completed Exceed Tolerance - Fail.xml	2.76 KB	Update	Delete	View

Details of each treatment prescription are not required to be entered into each Standards Unit/Stocking Standards screen because aerial fertilization treatments can span multiple openings and encompass large areas.

To reference treatment prescriptions to the reported planned/completed fertilization treatments, users may specify a unique number in the following fields.

Online: Licensee Activity ID  
ESF: <rst:licenseeID/>

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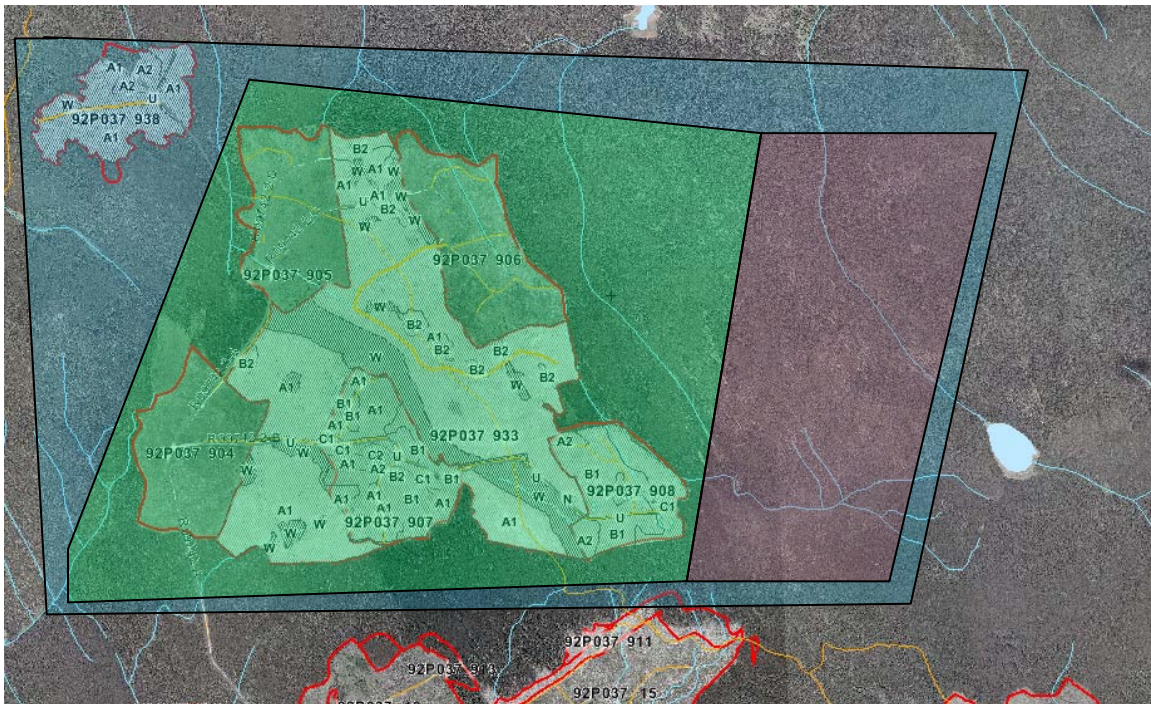
### Reporting by existing openings versus shell-openings

Fertilization activities may overlap existing openings. Two reporting options are available: 1) Create a shell opening that covers the existing openings; or 2) Report by the individual openings.

**Option 1: Shell Opening.** Report by a shell opening allows for complete coverage of the entire assessed, treated and planned area in one record. This method may simplify reporting because only fertilization related work, activity information and maps are submitted, and RESULTS allows for submission of multi-part polygons. A shell opening should fit within a resolution unit such as by drainage or landscape unit so that the areas can be reviewed using existing Ministry mapping viewing tools (eg. Mapview or iMap).

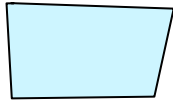
**Option 2: Individual Openings.** Reporting by individual openings allows for specific tracking of treatments within each opening so that full historical context is retained within individual opening records. More work is involved with splitting the areas (attribute and spatial) to conform to each of the opening boundaries. A shell opening is created to report any adjacent remaining project area outside of the existing opening(s).

The choice of reporting by existing openings where applicable versus shell openings is discussed with districts prior to planning the fertilization activities because this determines how the information is collected to meet the reporting requirements.



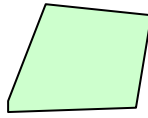
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### Option 1: Overlap shell opening over existing opening



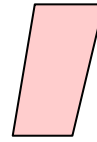
**Fertilization Assessment Area**

Opening ID: 123456  
 Base: SU  
 Technique: FE  
 Method: PHOTO  
 Objective:FE  
 Funding: FIL  
 Completion Date: 2008-06-01  
 Area Reviewed: 1000 ha  
 Interagency No: 123456



**Fertilization Treatment (Current Yr) Shell Opening- overlap**

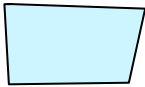
Opening ID:123456  
 Base: FE  
 Technique: CA  
 Method: HELI  
 Objective:FE  
 Funding: FIL  
 Completion Date: 2008-08-15  
 Treated Area: 400 ha  
 Interagency No: 123456



**Future Planned Fertilization**

Opening ID: 123456  
 Base: FE  
 Technique: CA  
 Method: HELI  
 Objective:FE  
 Funding: FIL  
 Planned Date: 2009-08-15  
 Planned Area: 400 ha  
 Interagency No: 123456

### Option 2: Separate submission by individual openings



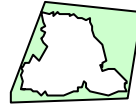
**Fertilization Assessment Area**

Opening ID: 123456  
 Base: SU  
 Technique: FE  
 Method: PHOTO  
 Objective:FE  
 Funding: FIL  
 Completion Date: 2008-06-01  
 Area Reviewed: 1000 ha  
 Interagency No: 123456  
 Activity GML: Supplied



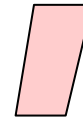
**Fertilization Treatment (Current Yr) - existing openings  
 Separate areas into each opening boundary**

Mapsheets & Opening Numbers:  
 904, 905, 906, 908, 933  
 Base: FE  
 Technique: CA  
 Method: HELI  
 Objective:FE  
 Funding: FIL  
 Completion Date: 2008-08-15  
 Treated Area: 400 ha  
 Interagency No: 123456  
 Activity GML: Supplied



**Fertilization Treatment (Current Yr) - no opening  
 Shell Opening**

Opening ID:123456  
 Base: FE  
 Technique: CA  
 Method: HELI  
 Objective:FE  
 Funding: FIL  
 Completion Date: 2008-08-15  
 Treated Area: 400 ha  
 Interagency No: 123456  
 Activity GML: Supplied



**Future Planned Fertilization**

Opening ID: 123456  
 Base: FE  
 Technique: CA  
 Method: HELI  
 Objective:FE  
 Funding: FIL  
 Planned Date: 2009-08-15  
 Planned Area: 400 ha  
 Interagency No: 123456  
 Activity GML: Supplied

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### New RESULTS Report: Recipient Silviculture Accomplishment Reporting

**Menu: [CRS-Silviculture-RESULTS-Silviculture Accomplishments and Planning and Reports](#)**

Link: [http://apps28.for.gov.bc.ca/csrsm/reportPrompt.do?view\\_rpt=679&cat=218&originalCat=218](http://apps28.for.gov.bc.ca/csrsm/reportPrompt.do?view_rpt=679&cat=218&originalCat=218)

• Home • Help

**Corporate Reporting System** Ministry of Forests

**MY BOOKMARKS**  
empty

**Main Menu :** [Silviculture](#) : [RESULTS - Reporting Silviculture and Land Status](#) : [Silviculture Accomplishments, Planning and Project](#)

#### Recipient Silviculture Accomplishment into RESULTS

**Business Description:**  
Government-funded activities must be reported into RESULTS. This report will be used by recipients and program administrators to confirm that all components for silviculture reporting have been completed

**Search Reports:**

Org Unit:

Inter Agency Number:

Completion Date: From (YYYY-MM-DD):

Completion Date: To (YYYY-MM-DD):

Funding Source:

Silv. Base Code:

Submission Date: From (YYYY-MM-DD):

Submission Date: To (YYYY-MM-DD):

Format:

View the report online. (This report may take time to display)

Email this report to me

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## Ministry of Forests and Range Recipient Silviculture Accomplishment into RESULTS Report

Page: 4 of 27  
 Date Printed: 2008-06-13  
 User Id: IDIR\MTSOI  
 Database: DBP01  
 Report Id: RESULTSR011  
 File:

Orq Unit: <All> Completed Activity Funding Source: FIL - Forest Investment Account - licensee administered  
 Inter Agency Number: Silviculture Base Code: FE - Fertilization  
 Completion Date: 2007-04-01 To: 2008-03-31 Submission Date: To:

Inter Agency Number: 4838001

Dist	Opening	Opening ID	ATU ID	Open Cat Code	Open Sts Code	Dist Start Date	Project ID	Base	Tech	Method	Activity Completion Date	Total Silv Area Fund Treated Srce	Activity Map		Forest Cover	
													Spatial Indicator	Submitted by	Submitted Date	Submitted by
DQU	93G 009 0.0	99	<a href="#">1159459</a>	2053794	SPEX	APP		FE	CA	HELI	2007-10-13	84.6 FIL	Y	BCEID\MLMCK INNON	2008-01-17	
DQU	93G 009 0.0	97	<a href="#">1159455</a>	2053796	SPEX	APP		FE	CA	HELI	2007-10-16	54.0 FIL	Y	IDIR\MLMCKIN N	2008-01-17	
DQU	93G 009 0.0	98	<a href="#">1159457</a>	2053798	SPEX	APP		FE	CA	HELI	2007-10-16	93.3 FIL	Y	IDIR\MLMCKIN N	2008-01-17	

Total Treated Area by Base Code

Silv Base Code	Total Treatment Amount
FE - Fertilization	231.9