Guide to the Submission of MSMA Activity Reporting Requirements to RESULTS via the Electronic Submission Framework (ESF)

Version 1.0

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BRITISH COLUMBIA

Ministry of Forests and Range

Forest Practices Branch

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Document Change Control

Location	Description	Updated By
Version 0.1	Draft	FORSITE Aug 17, 2007
Version 1.0	Updated Method code from MSMA to MSM Acknowledgement of acceptance from MFR Steering committee	FORSITE September 7, 2007

Introduction

This document outlines the requirements for reporting Monosodium Methanearsenate (MSMA) treatments to the Reporting Silviculture and Land Status Tracking System (RESULTS). These requirements are a direct result of the Ministry of Forests and Range's (MFR) recently released policy regarding the Management of MSMA-Treated Trees in British Columbia, July 25, 2007 (the Policy). This guide may also be applied to the use/reporting of treatments similar to MSMA.

Data submitted in adherence with the guidelines contained in this document will address two critical components of the Policy:

1. The first of which is the need for a provincial database that shows in both tabular and map format:

    a. the approximate location of the treatment,

    b. the approximate area of the treatment,

    c. the approximate date of the treatment, and

    d. the approximate number of trees treated.

2. The second of which is making this information available to BCTS and Licensees for planning purposes.

MFR will use RESULTS as the database to store this data. The data submissions outlined in this document will populate this database. Data will also be made available in the Land and Resource Data Warehouse (LRDW) over time. MFR, BCTS, forest licensees, and consultants all have access to RESULTS and the LRDW.

Who is this guide intended for

This Guide is intended to be used by BCTS, licensee staff, and consultants working on their behalf who need to report MSMA activities to MFR. This guide is also intended to used by Data Service Providers who are entering Backlog MSMA activities into RESULTS. It is expected that users of this guide will be familiar with ESF, RESULTS, and basic silviculture reporting requirements.

Document Layout

This document is divided into three sections.

1. The Introduction section outlines the purpose of the document.

2. The Newly Identified MSMA Sites Section provides the reporting requirements for MSMA sites that were previously undocumented or where newly treated

3. The Backlog MSMA Sites Section provides the reporting requirements for MSMA sites that MFR has already identified through historical file searches.

How to use this document

This document is a supplementary document to the Policy. This document is to be applied in addition to the reporting requirements outlined in the Silviculture Information Submission Guidebook (http://www.for.gov.bc.ca/his/results/business.htm#Submission_Specifications). Following the guidance in this document will ensure adherence to the MFR MSMA Policy.

The requirements outlined in this document may not meet the needs of other business areas (e.g. the Forests for Tomorrow (FFT) and Forest Investment Account (FIA) business areas have more laborious submission requirements). Users may need to consult other business areas in order to ensure the needs of those business areas are met.

Newly Identified MSMA Sites

Requirements outlined in this section apply to BCTS and other forest licensees who identify previously undocumented MSMA sites during the development of their cutblocks. MFR will endeavor to capture as many MSMA sites through its backlog MSMA Sites procedures as possible. Sites that are not identified as part of the backlog process will be considered newly identified, and must follow the requirements outlined in this section. These requirements are divided into to parts; the RESULTS Activity Submission, and the RESULTS Forest Cover Submission.

RESULTS Activity Submission

As described in the Policy, when a licensee/BCTS identifies a previously unidentified MSMA site, the site must be provided to the MFR RESULTS database. This information must be provided using XML/GML document (as per the RESULTS Activity Submission Schema), and or on-line entry. The requirements of that submission are detailed in the table below. For more details on each field please see the SISG and/or the RESULTS Technical Specifications (http://www.for.gov.bc.ca/his/results/techDocs.htm).

Table 1: Detailed field requirement information for reporting MSMA activities to RESULTS.

Field	Required	Value	Details
Action Code	Yes	I	I - Insert (for activities being submitted for the first time). Not that U – Update may be used for updating previously submitted activities.
Activity Base	Yes	PC	PC = Pest Control
Activity Technique	Yes	CG	CG = Chemical Ground
Activity Method	Yes	MSM	MSM = Monosodium Methanearsenate
Activity Cost	No		There is no requirement to submit the activity cost
Activity (completion) Date	Yes	YYYY-MM-DD	The date for the activity, in particular the year and season. It may not be possible to provide the exact date. A reasonable approximation is acceptable where an exact date is not available.
Is Actual Date	Yes	Y	A Y/N field identifying if this activity is completed (= Y), or if it is not complete (= N). If left blank default value of Y is supplied by the application.
Objective 1	No	IB	IB – Insect, Bark Beetle
Objective 2	No		
Objective 3	No		
Licensee ID	No		The Licensee ID field is a text field that the Licensee can use to enter any value they choose. This can be used for identification purposes subsequently.
Funding Source	Yes	XXX	The funding source for the silvicultural treatment or activity. If the historical funding source is not available then a code of XXX is acceptable (XXX – No Funding Source
Funding Project ID	Conditional		This field would only be required if new MSMA treatments were performed under a FIA of FFT funding. Note there may be other submission requirements for FIA, FFT or other government funded activities. Refer to the specific program for details.
Net Area Treated	Yes		The area treated during this activity. That is, the total hectares actually receiving the treatment to the nearest tenth of a hectare. E.g. 7.6.
Comments	Yes	Spp. And # treated	Include the species and number of each species treated Comments can only be entered directly in the RESULTS application. They can not be supplied in an XML/GML document
Spatial Data	Yes		Spatial data representing the area treated is required. Where linework approximating the treatment area is not available, or cannot reasonably be produced then a central GPS point should be taken and a circle drawn around that point representing the area treated should be used.

RESULTS Forest Cover Submission

As described in the Policy, MSMA treated stems should not be harvested, removed, milled and/or burned. These trees shall be marked and left on site. Licensees may choose to include these stems in reserves when practical to do so. When licensees harvest a new block they must report the location of any reserves as part of their forest cover submission. With two exceptions the requirements for a forest cover submission are outlined in the SISG. The exceptions are outlined below.

The forest cover information must be provided using an XML/GML document (as per the RESULTS Forest Cover Submission Schema. For more details on each field please see the SISG and/or the RESULTS Technical Specifications (http://www.for.gov.bc.ca/his/results/techDocs.htm)

Table 2: Exceptions to basic forest cover reporting that must be followed if MSMA treated stems are reserved within a new opening.

Field	Required	Value	Details
Reserve Type	Yes	G, or D	Reserves consist of individual trees or patches of trees (within the cut block) that have been retained for habitat, scenic, biodiversity, cultural or other reasons. Reserves will be one of two types listed below G – Group (a defined, mappable patch of residual trees) D – Dispersed (a defined area in which unmappable single trees or small clusters of trees reside)
Reserve Objective	Yes	MSM	MSM = monosodium methanearsenate
Note that all other Forest Cover fields must be filled out in accordance with the SISG			

Backlog MSMA Sites

As part of the Policy implementation, MFR will load attribute and spatial data for all available, historical, MSMA treatments. These historical treatments will be termed backlog MSMA Treatments. Historical paper data from all impacted Forest District and Regional offices that outlines the specifics of the treatments will be sent to Data Service Provider(s) identified by MFR's Forest Practices Branch. The Service Provider(s) will follow the requirements outlined in the sections below to enter the historical data.

Recognizing that the historical data may be incomplete MFR is establishing a different set of reporting requirements for these backlog MSMA Sites. This section outlines those requirements. Backlog reporting requirements will follow one of two paths depending on whether the treatment occurs within an opening that already exists in RESULTS or within an opening that does not yet exist in RESULTS.

Situation 1: Backlog MSMA treatment occurs within existing opening in RESULTS

In situations where a backlog MSMA treatment occurs within the boundary of openings that already reside in RESULTS, a RESULTS Activity Submission providing the details listed in the RESULTS Activity Submission Section will made to the opening in RESULTS.

Situation 2: Backlog MSMA treatment does not occur within an existing opening in RESULTS

In situations where a backlog MSMA treatment occurs outside of any existing openings in RESULTS a two step process is required. The first step creates the new opening record in RESULTS and the second step adds the activity.

New opening Requirements

A new opening will be created with an opening definition submission/online entry with only the minimum amount of data. Detailed requirements are outlined in the table below

Table 3: Detailed reporting requirements for creating Openings to which Backlog MSMA activities will be loaded.

Field	Required	Value	Details
Mapsheet Grid	Yes		The Mapsheet grid (eg 83, 102). Depending on district this may be auto-generated
Mapsheet Letter	Yes		The Mapsheet Letter (eg G, P). Depending on district this may be auto-generated
Mapsheet Square	Yes		The Mapsheet Square (eg 065, 008). Depending on district this may be auto-generated
Mapsheet Quad	Yes	0	The Mapsheet quad (eg 0). Depending on district this may be auto-generated
Mapsheet Subquad	Yes	0	The Mapsheet Subquad (eg 0). Depending on district this may be auto-generated
Opening Number	Yes		The Mapsheet grid (eg 83, 102). Depending on district this may be auto-generated
Opening ID	Yes		Automatically generated by RESULTS upon submission of the Mapsheet & Opening Number combination
Opening Category		SPEX	SPEX = SP Exempt
SP Exempt		Y	Y = Yes
Opening Gross Area	Required		The Gross area of the opening to the nearest 0.1 ha
Approval date	Required		Date of Treatment. Can only be set on-line.
Opening Status		FG	Set to FG – This will have to be set manually once the opening is created. Can only be set on-line
Spatial data	Required		The extent of the treated opening. Can only be submitted via ESF

MSMA Activity Requirements

Once the opening is created in RESULTS, and activity submission is required. The requirements of the activity submission are outlined in the RESULTS Activity Submission Section.

There will be no requirement to submit Forest Cover data for Backlog MSMA Sites.