­­ **Change History**

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Tiffany Gold Mine Environmental Management Reporting System Test Plan

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# Introduction

# Testing Strategy

## Type of testing to be performed

We will perform unit tests, functionality tests, and requirements/acceptance tests to ensure that TiGERS behaves as the users and stakeholders expect. We will also perform user experience testing to ensure the application is easy for users to navigate and use as well as contribute positively to productivity.

## Areas of testing to be focused

The tests will have a strong focus on data manipulation (add, update, delete) and data retrieval for all users of TiGERS. Data manipulation will be tested against various constraints related to the type of data being processed and the security policy associated with that data. Data retrieval will be tested against expected results both in terms of correctness of the data and appropriate organization of the data.

There will also be a strong focus on functional areas of the application including email and security.

User experience tests will mainly focus on the user’s ability to quickly and accurately navigate the various pages associated with their authenticated role. There will also be testing focused on appropriate design which will allow users to be more productive by mitigating eye stress, keeping the users engaged through interactive elements, and limiting the number of actions necessary to perform a given task.

## Areas which will not be tested

We will not perform regression, stress, or performance tests as we do not have the time and/or the resources for these areas of testing.

We also will not perform recovery testing as it has been agreed with steakeholders that system recovery is not a requirement of the software.

Most software functionality will be covered by the tests described in (2.1) and (2.2) but we will not be focusing on comprehensive tests of the email, map, or report generation systems because, although they are important to TiGERS, they are not essential (it is possible to perform the same functions through more traditional means such as phones, physical maps and other report softwares).

## Justification of testing types and areas chosen

Unit tests have been chosen to ensure the correctness of code as it has been envisioned by the developer. It is especially important to unit test all classes and methods which manipulate data to minimize the possibility of data corruption and increase data integrity in the application and database layers.

Functionality tests ensure that logically related sections of code perform correctly as indicated by the Software Requirements Specification. After unit tests have passed, we must be confident that each unit can work with the others to provide a well-functioning system.

Requirements/acceptance tests ensure that the application as a whole behaves correctly as indicated by the Software Requirements Specification and further meetings with stakeholders. If stakeholders do not agree that the application meets their requirements, they will not accept the version as-is and will expect development to continue lowering their ROI and increasing the time before release.

User experience testing ensures that the interface between users and the system optimizes productivity and minimizes user rejection. If users reject the software because of inadequate experiences, they will turn to more familiar tools which they believe are better to work with and only use TiGERS when absolutely necessary. This will decrease productivity and lower the ROI for the stakeholders.

# Assumptions and Constraints

# Test Cases