

-  QA Test Plan: Desludging Management System
  -  Module: Site Settings
  -  Module: Desludging Schedule
  -  Module: Desludging Schedule Reintegration
  -  Module: Application Add Page
  -  Module: Application Datatable
  -  Module: Supervisory Assessment



# QA Test Plan: Desludging Management System

---

## Module: Site Settings

### Objective:

Verify site setting configurations are saved and functional for downstream modules.

### Test Steps:

- Open the **Site Settings** module.
- Fill in all required fields:
  - Trip Capacity Per Day
  - Schedule Desludging Start Date
  - Weekend Days
  - Holiday Dates
  - Multi-select fields for Wards (if applicable)
  - and so

### Expected Outcome:

- Form should successfully save without errors.
  - Multi-select fields should function correctly, allowing multiple values to be selected and saved.
-

# Module: Desludging Schedule

## Objective:

Validate desludging scheduling based on site settings and system constraints.

## Test Steps:

- Open **Desludging Schedule** module.
- Confirm visibility of buildings where:
  - `was_sat` = false
  - Containment status is **null** , **not confirmed** , **disagreed emptying** , or **rescheduled**
- Confirm the presence of the following buttons:
  - **Regenerate Desludging Schedule**
  - **Export CSV**

## Expected Outcomes:

### 1 Regenerate Desludging Schedule:

- On click, a loading indicator appears.
- Containments get scheduled based on priority and:
  - **Trip Capacity Per Day** from Site Settings.
  - **Start Date** from Site Settings.
  - Weekends and holidays (as per Site Settings) are excluded.
- System generates and displays a new schedule in the datatable.

### 2 Export CSV:

- Exports a CSV containing the same number of records currently displayed in the datatable.

### 3 Datatable Actions:

Action	Expected Outcome
Confirm	Navigates to the <b>Application Addpage</b> with all inputs prefilled
Emptying	and disabled except required fields. Proposed Emptying Date is non-editable.

Action	Expected Outcome
	Supervisory Assessment Date must be $\leq$ Proposed Emptying Date.
Reschedule Emptying	<p>Navigates to <b>Application Addview</b>. Inputs prefilled and disabled except <b>Proposed Emptying Date</b>.</p> <p>Calendar should show:</p> <ul style="list-style-type: none"> <li>Trip availability (with color codes)</li> <li>Weekends and holidays highlighted</li> </ul> <p>Supervisory Assessment Date should be <math>\leq</math> Proposed Emptying Date.</p>
Disagree Emptying	<p>On first click, a confirmation (Swal) appears.</p> <p>If confirmed, record remains.</p> <p>On second click, record is removed from <b>Desludging Schedule</b> datatable.</p>

## **Module: Desludging Schedule Reintegration**

### **Objective:**

Verify listing and reintegration of containments marked as 'Disagree Emptying'.

### **Test Steps:**

- Open **Desludging Schedule Reintegration**.
- Confirm visibility of all previously disagreed containments.

### **Expected Outcome:**

- All disagreed records appear irrespective of the number of times actioned.

## **Module: Application Add Page**

### **Objective:**

Verify correct display of the trip availability calendar and form submission.

## **Test Steps:**

- Open the **Application Add** page.
- Confirm calendar view:
  - Displays trip availability per day.
  - Highlights weekends and holidays distinctly.
- Verify form save functionality.

## **Expected Outcome:**

- Calendar displays available slots with color-coded indicators.
  - Weekends and holidays are highlighted.
  - Form saves correctly with all constraints validated.
- 

## **Module: Application Datatable**

### **Objective:**

Verify the new supervisory assessment fields and action workflows.

### **Test Steps:**

- Open **Application Datatable**.
- Confirm presence of:
  - Supervisory Assessment Date
  - Supervisory Assessment Status (with action button)

### **Expected Outcomes:**

- Values display as saved in the Application form.
- **Supervisory Assessment Status :**
- Initially shown as a cross icon.
- On click, navigates to **Supervisory Assessment Add** page.
- User fills form and saves.
- Post-save, icon updates to a tick and button gets disabled.
- Only after this, the **Emptying Status** button is enabled for action.

## **Module: Supervisory Assessment**

## **Objective:**

Verify the CRUD operations, form validations, workflow, and API integrations for the Supervisory Assessment module, ensuring it functions seamlessly with the Desludging Management workflow.

## **Test Steps:**

- Open the **Supervisory Assessment** module.
- Confirm listing of all Application records where:
  - Supervisory Assessment Status is **Pending** (shown with a cross icon in Application Datatable).
- Click the action button to navigate to **Supervisory Assessment Add** page.
- Verify form fields are:
  - Application details are prefilled and non-editable.
  - Supervisory Assessment Date is required.
  - Other assessment inputs (like status, remarks, or findings) are fillable as per the requirements.
- Submit the form.

## **Expected Outcomes:**

- Form validates all required fields.
- On successful save:
  - The respective record in **Application Datatable** updates:
    - Supervisory Assessment Status icon changes to a **tick**.
    - Action button for Supervisory Assessment gets disabled.
    - **Emptying Status** button becomes enabled.
- API endpoints for:
  - Fetching assessment records
  - Creating new assessments
  - Updating existing assessments

are verified for expected response codes (**200 OK**, **201 Created**, **400 Bad Request** on validation failure, etc.) and correct payload structures.

## **Additional Notes:**

- Validate error handling when submitting incomplete or invalid data.

- Confirm reassessment is restricted once an assessment has been saved (button disabled post-save).
- Test reintegration of disagreed applications back into the workflow once supervisory assessments are completed.