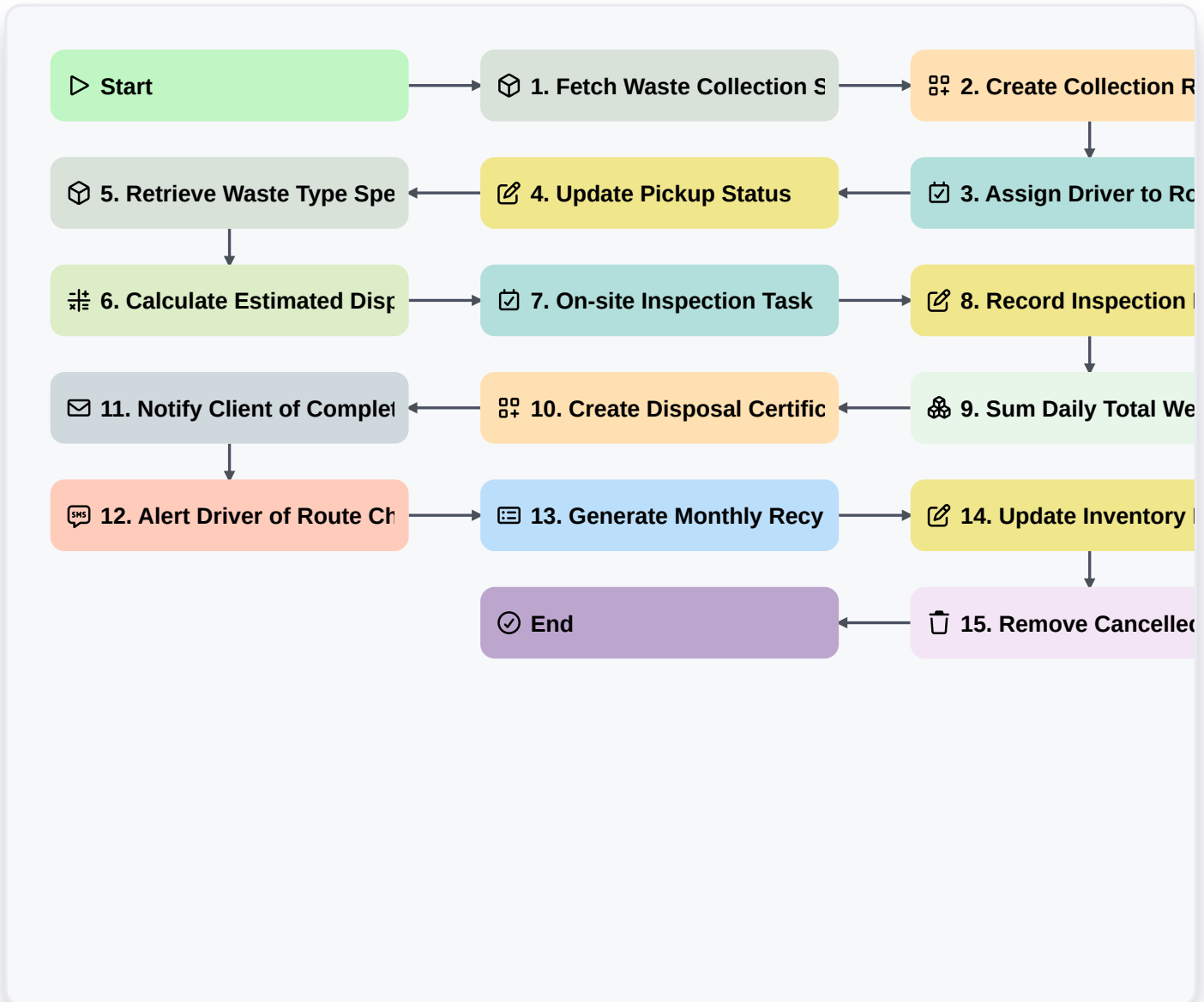


Waste Management And Recycling Workflow



Start

Start of the Workflow/Process.

1. Fetch Waste Collection Schedule

Retrieve upcoming collection dates and routes from the Master Schedule data model.

2. Create Collection Request

Generate a new entry in the Waste Request data model when a user requests a pickup.

3. Assign Driver to Route

Create a task for the Logistics Coordinator to assign a specific vehicle and driver to the request.

4. Update Pickup Status

Update the status of the Waste Request entry to 'In Progress' once the driver starts the route.

5. Retrieve Waste Type Specifications

Get details regarding weight limits and allowed materials for the specific waste category selected.

6. Calculate Estimated Disposal Fee

Calculate the cost based on the estimated weight and the predefined rate per ton for the material type.



7. On-site Inspection Task

Create a task for the Field Agent to verify the volume and contamination level of the waste at the site.

8. Record Inspection Results

Update the Waste Request entry with the actual weight and contamination findings from the inspection.

9. Sum Daily Total Weight

Aggregate all completed collection entries for the day to calculate the total tonnage processed.

10. Create Disposal Certificate

Generate a new entry in the Compliance/Certification data model as proof of legal disposal.

11. Notify Client of Completion

Send an email to the customer confirming that their waste has been successfully collected and processed.

12. Alert Driver of Route Change

Send an SMS alert to the driver if a high-priority emergency pickup is added to their route.

13. Generate Monthly Recycling Impact Report

Create a report summarizing the total weight of recyclables diverted from landfills for the month.

14. Update Inventory Levels

Update the 'Recyclable Stock' data model to reflect the new mass of paper, plastic, or metal added to the facility.

15. Remove Cancelled Requests

Delete entries from the active requests queue if a user cancels their collection request within the allowed window.

End

End of the Workflow/Process.