

Singleton Council

Managing Weeds with Reflect

Information provided by



Singleton Council - Weeds Management

Singleton Council in NSW requested Asset Edge to build a Weeds Management Mobile tool using Reflect. All work was done within the Premium Level Services (PLS) arrangement.

The brief was to:

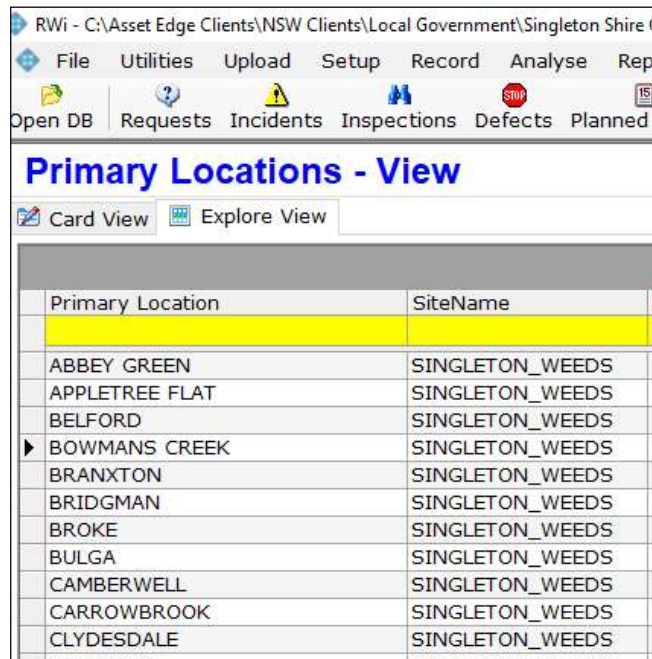
- Be simple to use
- Map Location of Weeds (GPS Coords)
- Take Photo of Weeds
- Provision for simple reporting by local areas
- Provision for simple reporting Weed Type
- Be able to do follow up inspections
- No reliance on map layers or chainages



Singleton Council - Weeds Management

The challenge was to make the location reporting simple and effective but not be too onerous for inspectors. The Location model was developed using no maps or chainage points and only text based setup data was provided.

Primary Locations Split into 62 local areas within the council.



Primary Location	SiteName
ABBAY GREEN	SINGLETON_WEEDS
APPLETREE FLAT	SINGLETON_WEEDS
BELFORD	SINGLETON_WEEDS
BOWMANS CREEK	SINGLETON_WEEDS
BRANXTON	SINGLETON_WEEDS
BRIDGMAN	SINGLETON_WEEDS
BROKE	SINGLETON_WEEDS
BULGA	SINGLETON_WEEDS
CAMBERWELL	SINGLETON_WEEDS
CARROWBROOK	SINGLETON_WEEDS
CLYDESDALE	SINGLETON_WEEDS

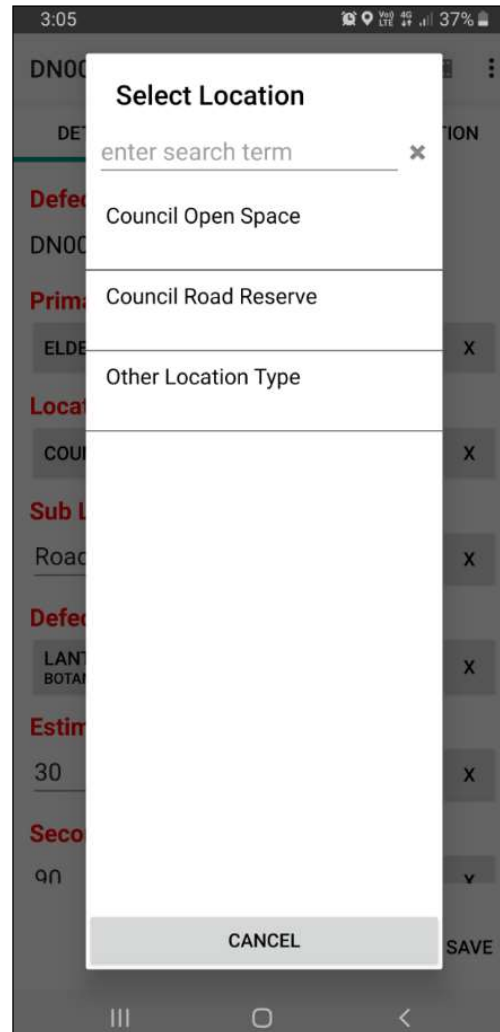
ABBAY GREEN	GLENNIES CREEK	MOUNT OLIVE
APPLETREE FLAT	GLENRIDDING	MOUNT THORLEY
BELFORD	GOORANGOOLA	NORTH ROTHBURY
BOWMANS CREEK	GOULDSVILLE	POKOLBIN
BRANXTON	GOWRIE	PUTTY
BRIDGMAN	GREENLANDS	RAVENSWORTH
BROKE	HAMBLEDON HILL	REDBOURNBERRY
BULGA	HEBDEN	REEDY CREEK
CAMBERWELL	HEIGHTS	RETREAT
CARROWBROOK	HOWES VALLEY	RIXS CREEK
CLYDESDALE	HUNTERVIEW	ROUGHIT
DALWOOD	JERRYS PLAINS	SCOTTS FLAT
DARLINGTON	LAMBS VALLEY	SEDFIELD
DOYLES CREEK	LECONFIELD	SINGLETON
DUNOLLY	LEMINGTON	SINGLETON MILITARY AREA
DYRRING	LIDDELL	STANHOPE
ELDERSLIE	LOWER BELFORD	WARKWORTH
FALBROOK	MAISON DIEU	WATTLE PONDS
FERN GULLY	MIDDLE FALBROOK	WESTBROOK
FORDWICH	MILBRODALE	WHITTINGHAM
GLENDON	MIRANNIE	WYLIES FLAT
GLENDONBROOK	MITCHELLS FLAT	

Singleton Council - Weeds Management

The Location table was very simple and assisted the inspector by allowing only three valid choices.

Location
Council Road Reserve
Other Location Type
Council Open Space

The Sub location field on the mobile device is used to enter address or more descriptive location information if needed.



3:05

DN00703

DEFECT

Defect

DN00703

Primary Location

ELDE

Location

COU

Sub Location

Road

Defect

LANT

BOTAN

Estimated Quantity (m2)

30

Second Quantity (% Cover of Weed)

90

Comments

q0

CANCEL

SAVE

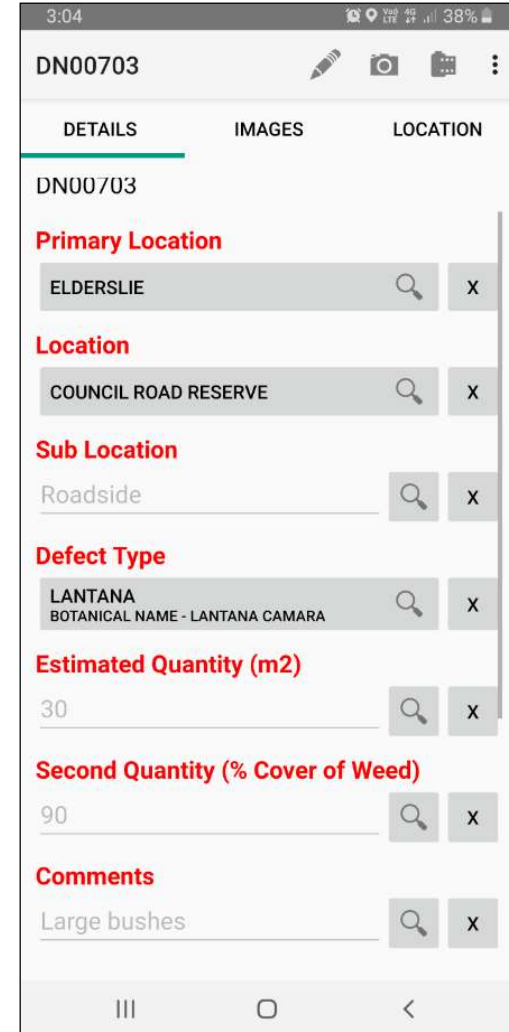
Select Location

enter search term

Council Open Space

Council Road Reserve

Other Location Type



3:04

DN00703

DETAILS

IMAGES

LOCATION

DN00703

Primary Location

ELDESLIE

Location

COUNCIL ROAD RESERVE

Sub Location

Roadside

Defect Type

LANTANA

BOTANICAL NAME - LANTANA CAMARA

Estimated Quantity (m2)

30

Second Quantity (% Cover of Weed)

90

Comments

Large bushes

Singleton Council - Weeds Management

Defect Weeds species can be easily added to the Reflect Defect Type table in the set up area.

SYMBOL	Defect Type	Location Category
O	African Olive	SC WEEDS
B	Blackberry	SC WEEDS
C	Coolatai Grass	SC WEEDS
L	Lantana	SC WEEDS



Singleton Council - Weeds Management

Symbol	Work Group	Activity	Activity Name
C	SC WEEDS	WEED CONTROL	Control of identified noxious weeds in Singleton Council
W	SC WEEDS	WEED INSPECTION	Inspection for identified noxious weeds in Singleton Council

File Utilities Upload Setup Record Analyse Report Window Help Develop

Open DB Requests Incidents Inspections Defects Planned Works Work Orders Accomplis

Activities - View

Card View Explore View History View

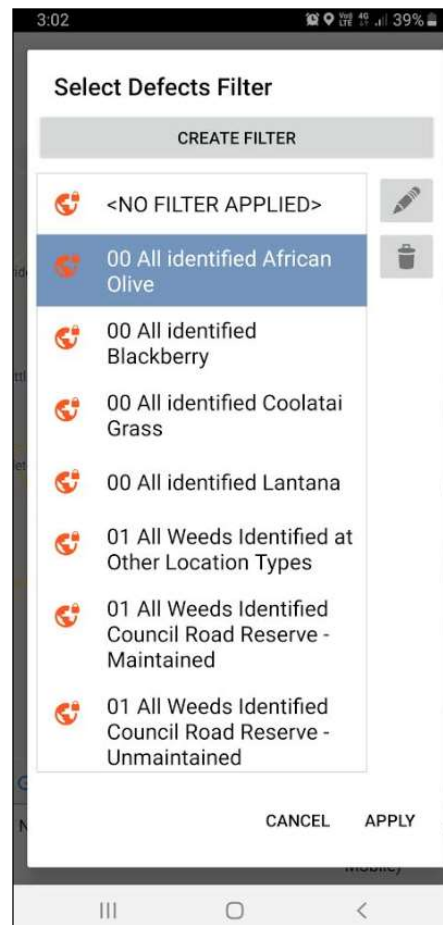
Work Group	SC WEEDS
Activity	WEED CONTROL
Activity Name	Control of identified noxious weeds in Singleton Council
Description	
Unit of Measure	Jobs
Second UOM	
Work Quantity	
Job Number	
Symbol Style	C

Singleton Council - Weeds Management

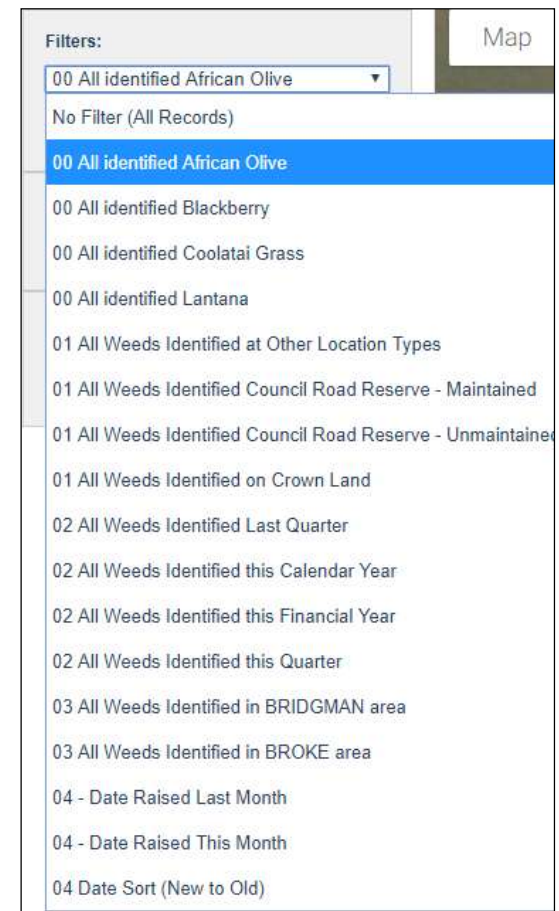
Global filters can be set up by Reflect Admins to assist with field operations and also reporting to management and NSW Environmental authorities



Reflect Windows




Reflect Android



Reflect Web

Singleton Council - Weeds Management



Singleton Weeds
Version 2019.4.1W
Wednesday, 8 May 2019

Welcome bennever | My Databases: SINGLETON_WEEDS | Logout

DEFECTS | ACCOMPLISHMENT | REQUESTS | INSPECTIONS | INCIDENTS | PLANNED WORKS | ELECTRONIC FORMS | OTHER | DOWNLOADS

Search:

Search Clear

Filters:

00 All Identified African Olive

Edit Delete Copy New

Criteria:

Defect Type is equal to African Olive

Sort:

CreatedOn DESC

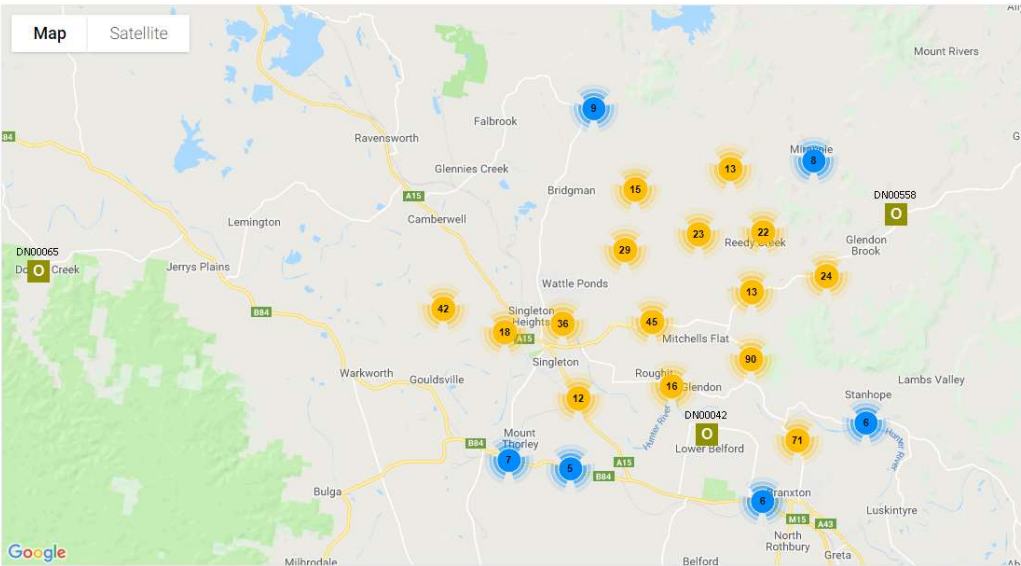
DEFECTS MAP VIEW

List View

Chainage Display: Marker

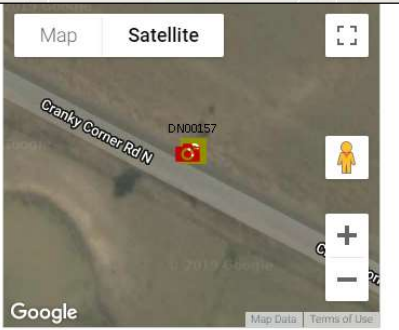
Showing 513 items on map and 0 with no Lat/Long.

Map Satellite




No chainage found in this area.

Map Satellite




Photos



1 of 1

Singleton Council - Weeds Management



Singleton Weeds
Version 2019.4.1W
Wednesday, 8 May 2019

[DEFECTS](#) [ACCOMPLISHMENT](#) [REQUESTS](#) [INSPECTIONS](#) [INCIDENTS](#) [PLANNED WORKS](#) [ELECTRONIC FORMS](#)

Search:

Filters:

00 All identified African Olive

Criteria:

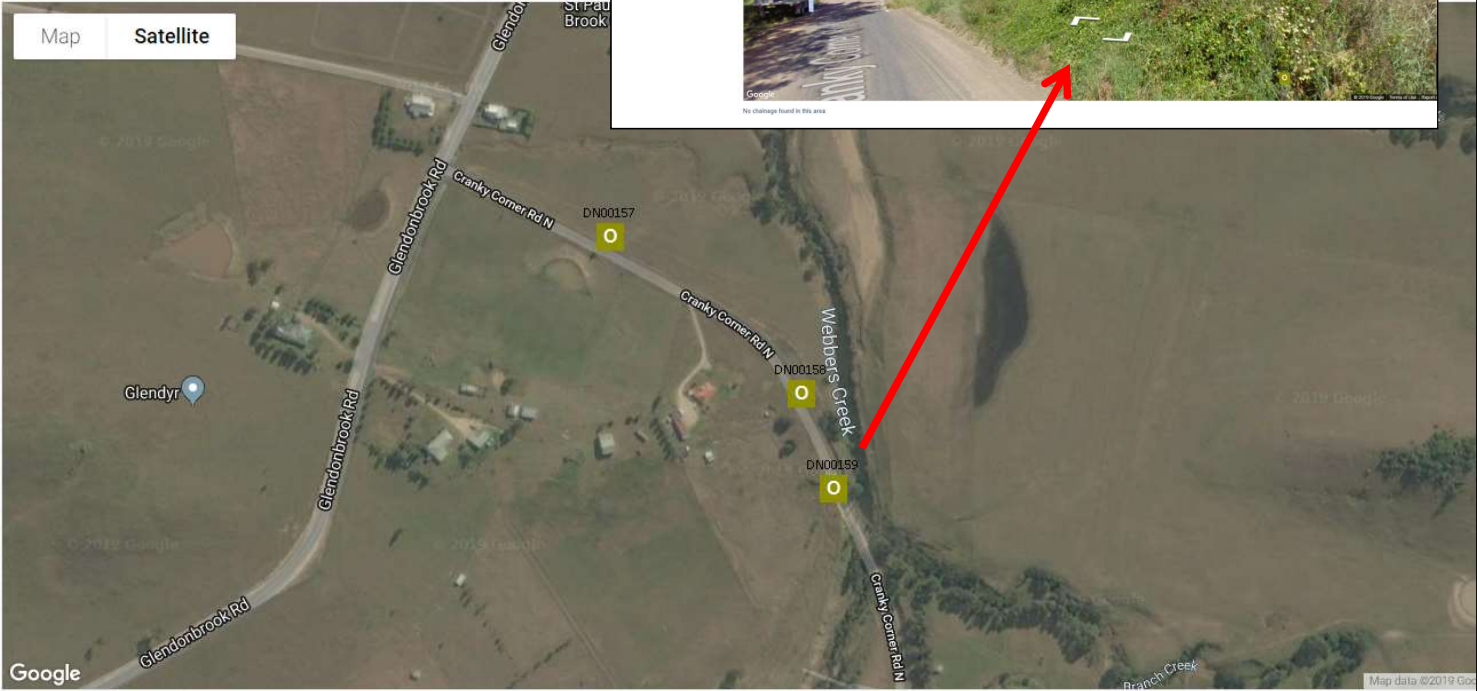
Defect Type is equal to African Olive

Sort:

CreatedOn DESC


DEFECTS MAP VIEW

Showing 513 items on map and 0 with no Lat/Long.



No chainage found in this area.

Welcome bennever | My Databases: SINGLETON_WEEDS



Singleton Weeds
Version 2019.4.1W
Wednesday, 8 May 2019

[DEFECTS](#) [ACCOMPLISHMENT](#) [REQUESTS](#) [INSPECTIONS](#) [INCIDENTS](#) [PLANNED WORKS](#) [ELECTRONIC FORMS](#) [OTHER](#) [DOWNLOADS](#)

Search:

Filters:

00 All identified African Olive

Criteria:


Defect Type is equal to African Olive

Sort:

CreatedOn DESC

DEFECTS MAP VIEW

Showing 513 items on map and 0 with no Lat/Long.

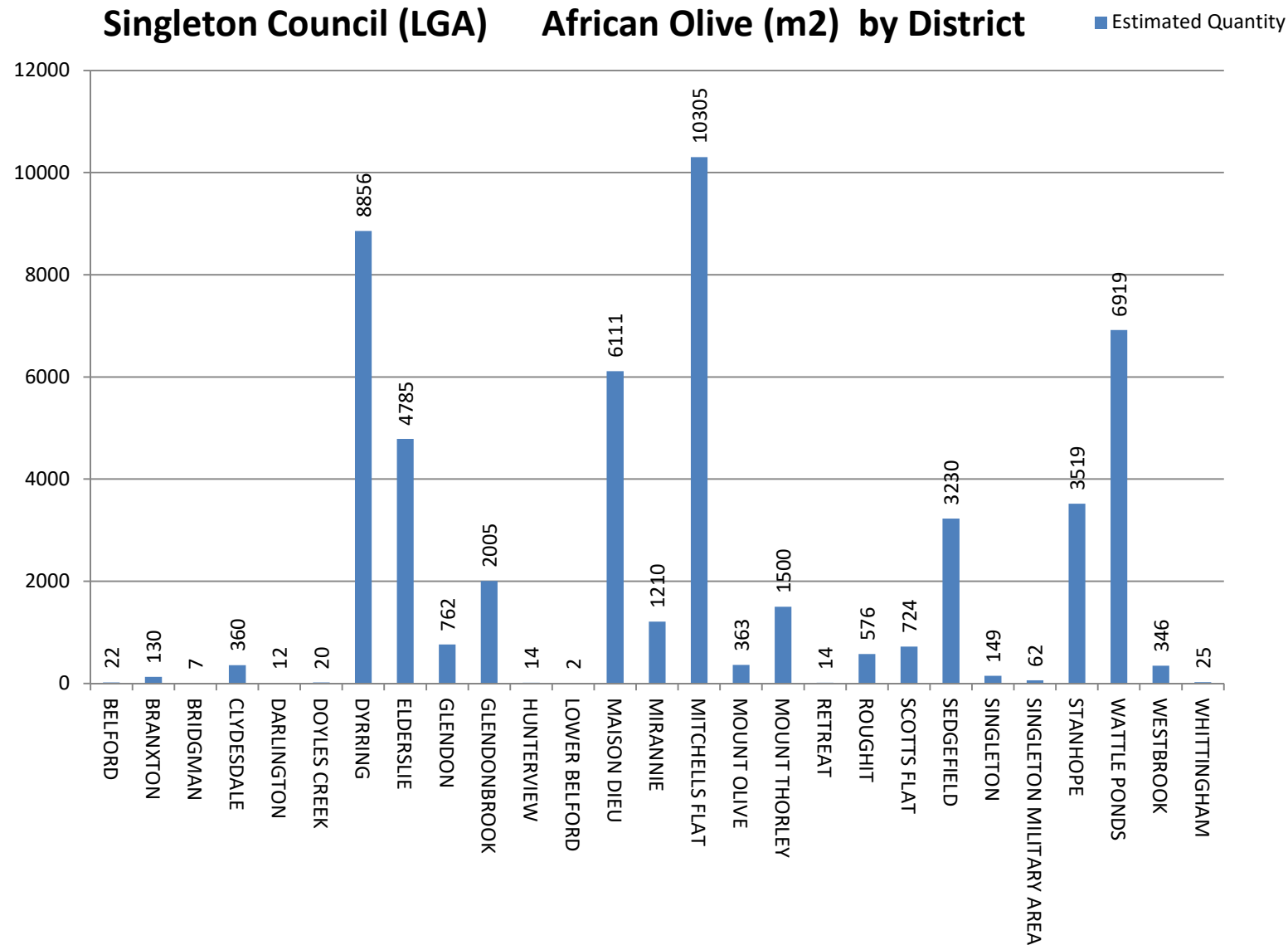


No chainage found in this area.

Singleton Council - Weeds Management

Defects			
Location	Defect Type	Defect	Estimated Quantity m2
Council Open Space	African Olive	6	10,026
	Lantana	3	321
Council Road Reserve	African Olive	463	41,109
	Blackberry	6	465
	Coolatai Grass	76	15,909
	Lantana	190	15,842
Council Road Reserve - Maintained	African Olive	44	892
	Coolatai Grass	2	440
	Lantana	2	16
Other Location Type	Blackberry	1	330
	Coolatai Grass	1	2
	Lantana	1	4

Singleton Council - Weeds Management



Singleton Council - Weeds Management

Other potential areas for improvement to this type of weeds database

- Add E-Forms (MSDS and Chemical Control)
- Overlay data on cadastre in GIS
- Enrich collected data using spatial query
- Apply for grant funding for weed control
- Setup templates and Work Flow Notification
- Create Public Web Sites of weed outbreak
- Develop Weed control Planned Works

Approximate database build time - 2 hours if the Location and Weed Types are provided in excel.

The screenshot shows a mobile application interface for recording weed management data. At the top, the identifier 'DN00765' is displayed next to icons for editing, taking a photo, and a location pin. Below this is a tabbed interface with 'DETAILS' selected. The form contains several sections, each with a red title and a search bar with a magnifying glass icon and a delete 'X' button. The sections are: 'Primary Location' with the value 'SINGLETON MILITARY AREA'; 'Location' with 'COUNCIL ROAD RESERVE'; 'Sub Location' with 'Roadside'; 'Defect Type' with 'AFRICAN OLIVE' and a detailed botanical name 'BOTANICAL NAME - OLEA EUROPAEA SUBSP CUSPIDATA'; 'Estimated Quantity (m2)' with the value '1'; 'Second Quantity (% Cover of Weed)' with '100'; and 'Comments' with 'Single bush'. At the bottom of the screen are three navigation icons: a hamburger menu, a home button, and a back arrow.

DN00765

DETAILS IMAGES LOCATION

DN00765

Primary Location

SINGLETON MILITARY AREA

Location

COUNCIL ROAD RESERVE

Sub Location

Roadside

Defect Type

AFRICAN OLIVE
BOTANICAL NAME - OLEA EUROPAEA SUBSP
CUSPIDATA

Estimated Quantity (m2)

1

Second Quantity (% Cover of Weed)

100

Comments

Single bush



Managing Trees with Reflect

Moorabool Shire - Tree Management

Moorabool Shire are currently using Reflect to undertake their inspections and maintenance of trees within their region.

A specific database and defect model was developed and modified under the Premium Level Services agreement.

The database includes a main database where works can be allocated to specific Contractor databases so that the Contractor can only see works allocated to them.

Defect Model (partial)

Defect Type	Location Category	Defect Priority	Physical Description	Response Time
Canopy	URBAN	LOW	Other canopy defect	180.00
Canopy	URBAN	HIGH	Crossing branches	14.00
Trunk	URBAN	HIGH	Bracket fungi in trunk	14.00
Other	URBAN	URGENT	Pest or disease present	2.00
Canopy	URBAN	HIGH	Loose bark in canopy	14.00
Trunk	URBAN	HIGH	Trunk unstable in ground	14.00
Roots	URBAN	HIGH	Mechanical damage to roots	14.00
Trunk	URBAN	URGENT	Trunk unstable in ground	2.00
Trunk	URBAN	URGENT	Codominant trunk	2.00
Other	URBAN	MEDIUM	Fallen tree	90.00
Roots	URBAN	LOW	Filled soil heave	180.00
Trunk	URBAN	LOW	Heavy trunk decay	180.00
Other	URBAN	MEDIUM	Vandalised tree	90.00
Trunk	URBAN	MEDIUM	Cavity in trunk	90.00
Trunk	URBAN	MEDIUM	Trunk decay	90.00
Roots	URBAN	MEDIUM	Filled soil heave	90.00
Trunk	URBAN	MEDIUM	Lopped trunk	90.00
Trunk	URBAN	LOW	Trunk lean	180.00
Trunk	URBAN	MEDIUM	Bracket fungi in trunk	90.00

Note that *Position within location* has been changed to *Defect Priority*

Moorabool Shire - Tree Management

The development of a specific Tree EForm allows an Arborist to undertake a detailed inspection of over 16,000 trees.

This information includes condition assessment and photos of each tree inspected.

Edit Electronic Form Entry

Entered By
Rachael Tonkin

Inspection Number

Primary Location
BACCHUS MARSH ROAD

Primary Location Description

Location
TRE_042152

Location Description

Sub Location

Asset Class

Asset

Completion Date
26/02/2019

Comments
Possible decay at cable site, tip dieback, long overextended limbs

External Reference

ModifiedOn
26/02/2019

ModifiedBy
uberarbor

Form Number
TR42152

Reserve Name

House Number

Road Name

Click on the map to select or relocate map position
or [click here to search](#)

Map

Satellite


Woolpack Rd

Bacchus Marsh Rd

TR42152

Map data ©2019 Google Terms of Use

Photos



[No Caption]

1 of 3

Drop a photo here to upload
(or click)

Attachments




No attachment

Moorabool Shire - Tree Management

Moorabool Shire Council Tree Assessments



TREE	TRE_042152				
Botanical Name	Ulmus X hollandica (columnar)	Maturity	Mature	Latitude	-37.68550673
Common Name	Dutch Elm	Health	Good	Longitude	144.4630779
Height (m)	33.00	Structure	Fair	Inspector	Rachael Tonkin
Canopy Diameter (m)	12.00	ULE	20-40 years	Inspection Date	26/02/2019
Trunk Diameter (m)	1.75	Powerlines	None	Plaque Details	
DBH (m)	1.48	TPZ (m)	17.7600	Surname	
		SRZ (m)	4.1762	Initials	
Street	BACCHUS MARSH ROAD			Rank	
Suburb				Number	
				Comments	



Reflect System

The use of the Reflect database for Tree management has allowed Moorabool to develop a customisable template for reporting of tree assessments.

Note: This is an alternative to the use of the NEMUS Software. Careful consideration must be exercised when determining 'best fit' application for trees management.



VicRoads Contract Conformance with Reflect

Loddon Shire – VicRoads Contract Conformance

Loddon Shire in Victoria are strong users of the Reflect software. Currently using the software for the maintenance management of their Local and Regional assets.

They are also responsible for the maintenance of some State-Controlled roads on behalf of VicRoads who utilise a maintenance management software not provided by Asset Edge – A Civica Group Company.

A solution was developed to allow Loddon Shire to automatically segregate the State Controlled Roads data in compliance with the VicRoads Contract.

Loddon Shire – VicRoads Contract Conformance

Workflow notifications have been set up to automatically notify VicRoads of issues in compliance with the Contract i.e Abandoned Vehicles

Edit Workflow Notification

View Name
Defects

View Field
Defect Type

To Value
750.G12 Abandoned vehicle

FilterName

☒ on New
☐ on Update
☐ on Delete

Subject
New Defect - Abandoned Vehicle - Loddon Shire

Body
Dear Northern Region Maintenance Team,
An abandoned vehicle has been identified within the Loddon Shire which requires your action.
Defect Information
Defect Number <Defect Number>
Date Raised <Date Raised>
Defect Group <Defect Group>
Defect Type <Defect Type>
Estimated Qty <Estimated Quantity> <Unit of Measure>
Second Qty <Second Quantity> <Second Unit of Measure>

Email To

☐ SMS
☒ Email

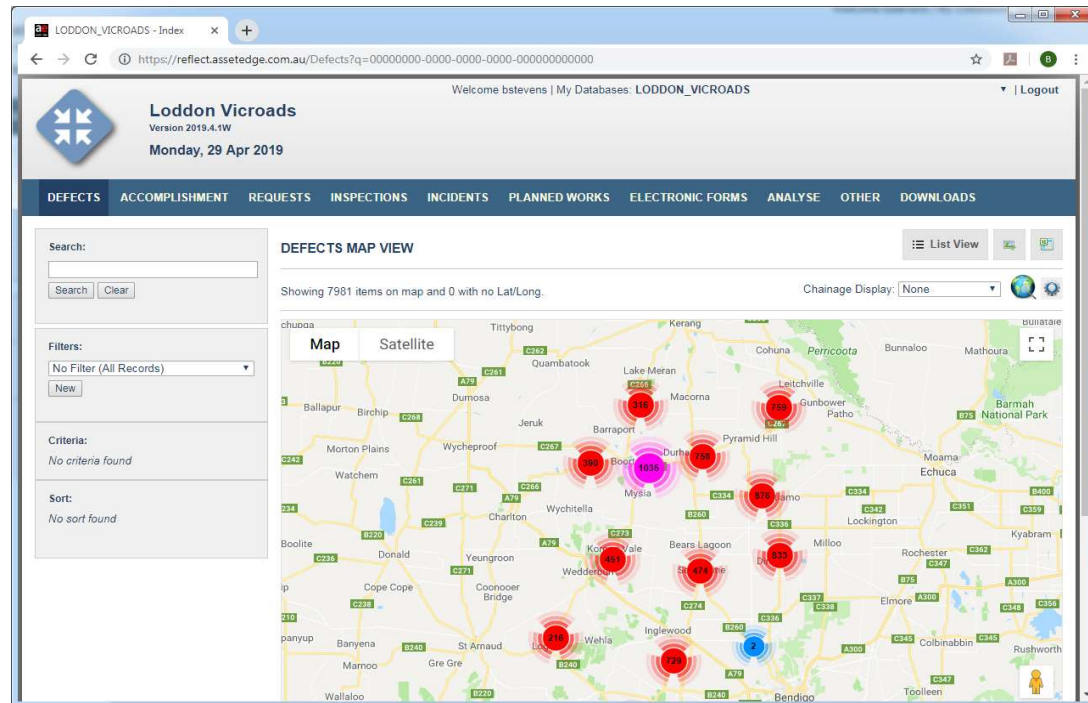
User Groups

<input type="checkbox"/> Technical Services notifications	<input type="checkbox"/> All logins
<input type="checkbox"/> Loddon Plains	<input type="checkbox"/> Technical Services Defects
<input type="checkbox"/> Fingerboards	<input type="checkbox"/> Townscape Notifications
<input type="checkbox"/> Loddon Plains Notifications	<input type="checkbox"/> Asst Manager Works
<input type="checkbox"/> Emulsion Reports	<input type="checkbox"/> Waste Management
<input checked="" type="checkbox"/> VicRoads Notifications	<input type="checkbox"/> Loddon Goldfields
<input type="checkbox"/> NSP notifications	<input type="checkbox"/> Works Admin
<input type="checkbox"/> VicRoads Claim	<input type="checkbox"/> Shire Wide Notification
<input type="checkbox"/> Water Log Book	<input type="checkbox"/> Loddon Goldfields Notifications
<input type="checkbox"/> Merit Requests	

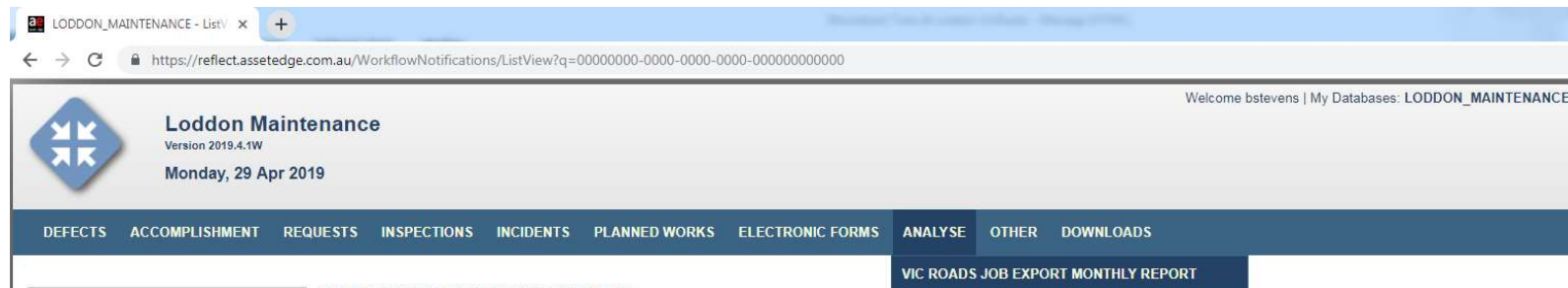
Save Close

Loddon Shire – VicRoads Contract Conformance

VicRoads have been provided with a web login to a Database linked to Loddon's maintenance database that only shows maintenance issues pertaining to State Controlled Roads



An Analyse view was created to produce very specific Vicroads report criteria



Bega Valley Shire Council

Mowing management using Reflect

Information provided by



Bega Valley Shire - Mowing Management

The Bega Valley Shire Council is utilising Reflect to better manage the Mowing and Slashing of their green space areas.

There are a total of 408 Locations which make up nearly 250 hectares requiring regular ground vegetation works in the council area.

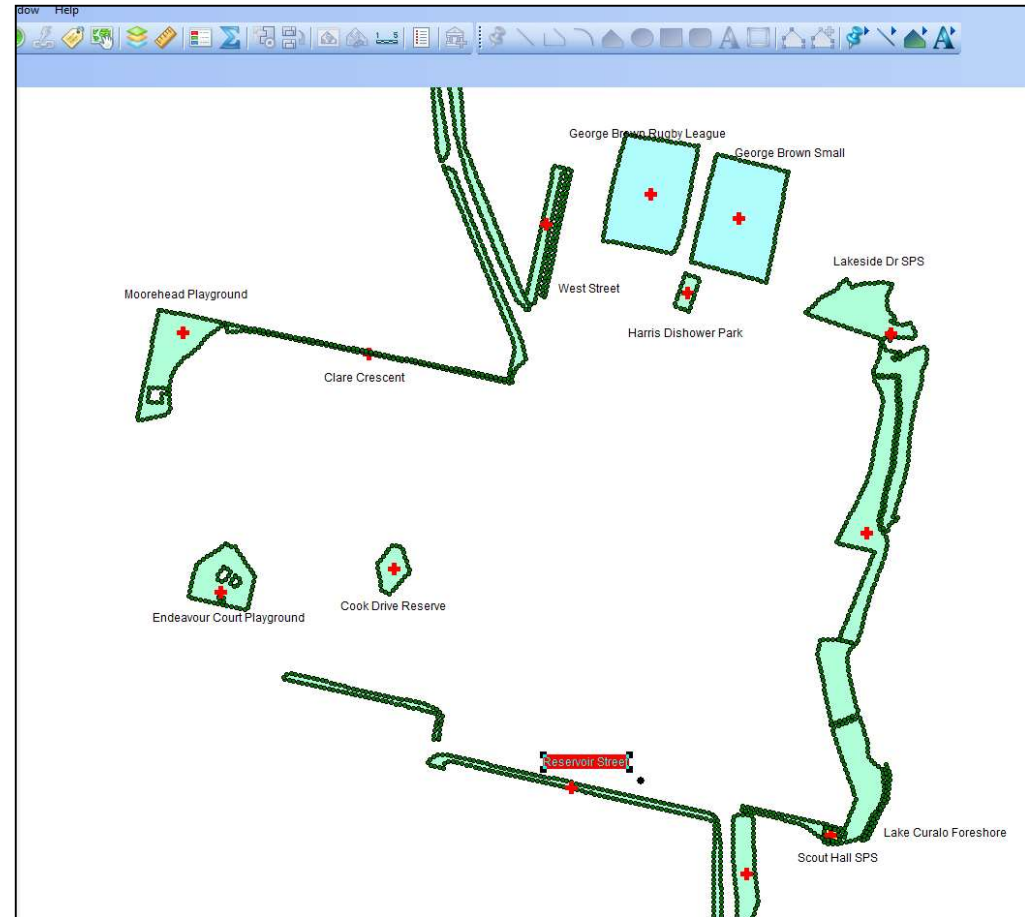
The introduction of Reflect for mowing works has enabled BVSC to

- Plan and Schedule Mowing Works
- Record all accomplishment on tablets or phones (*eliminate paper*)
- Produce 1st run time sheets with accurate Job number allocation and time
- Automate Plant and Labour allocation to jobs using Work Team resources
- Produce high level reporting to executive management
- Complete all Prestart Checks electronically on devices

Bega Valley Shire - Mowing Management

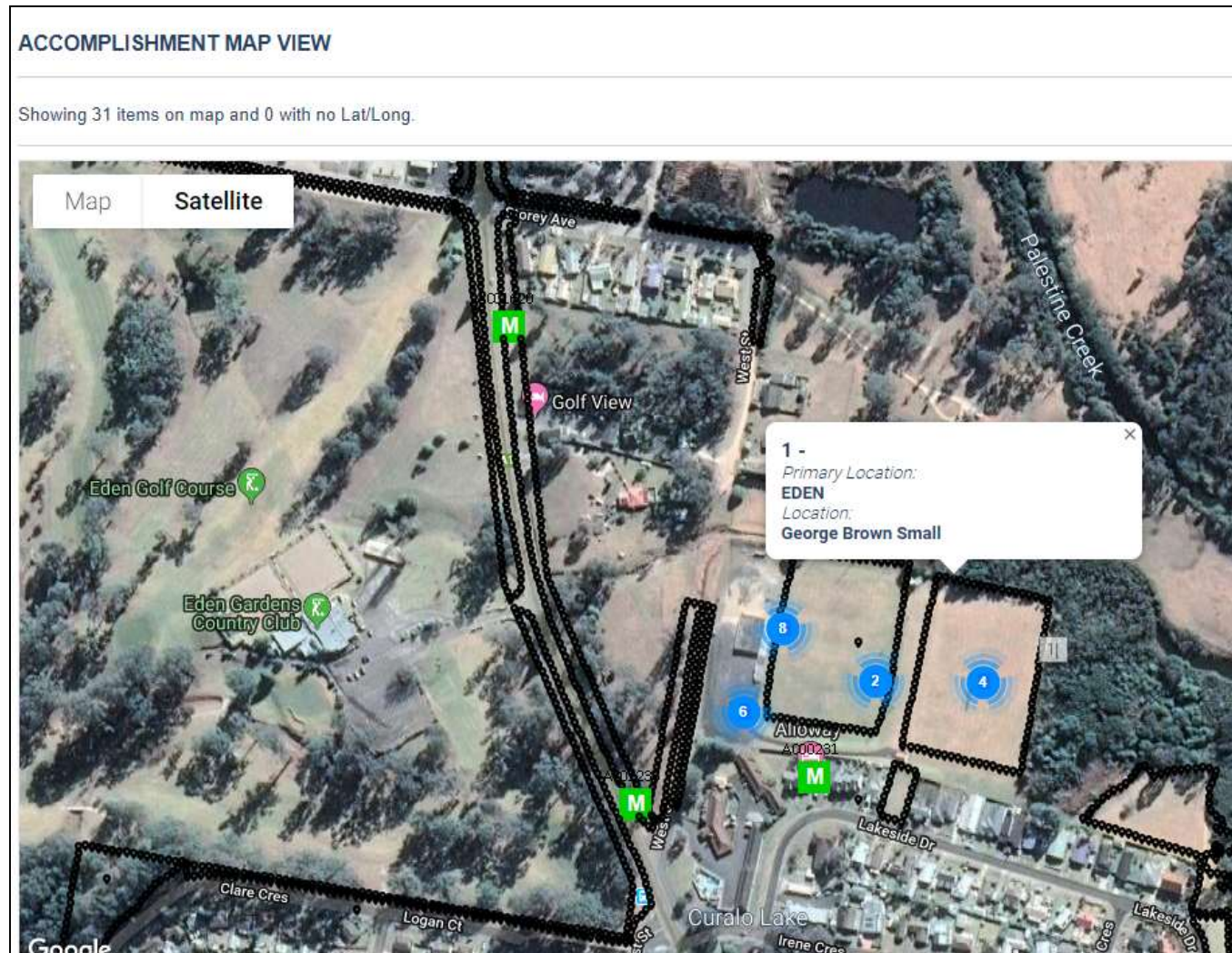
The setup of the mowing database was a considerable effort and most time went into the Location Model development for Reflect. The steps involved were;

1. Have an accurate spatial layer of all Mow areas
2. Generate perimeter and centroid point for each location
3. Assign attributes to each Location to assist with scheduling and reporting



Map layer used to define mowing areas for council

Bega Valley Shire - Mowing Management



Mowing areas converted to perimeter points and centroid for mobile use

Bega Valley Shire - Mowing Management

Each Location identified for mowing was extracted from the map layer and uploaded to Reflect. Three attributes were assigned to assist with scheduling and reporting

LTYPE 1 = Work Team responsible

LTYPE 2 = Mowing or Slashing or other

LTYPE 3 = Responsibility (Recreation, Transport, W&SS)

Primary Location	Location	Location Type 1	Location Category	Location Type 2	Location Type 3	Location Type 4
AKOLELE	Akolele Reservoir	North Team	BVSC	Mowed	W&SS	39
BEGA	Bega Borefield	North Team	BVSC	Mowed	W&SS	5,49
BEGA	Bega Reservoir	North Team	BVSC	Mowed	W&SS	2,34
BEGA	Bega STP	North Team	BVSC	Mowed	W&SS	4,99
BEGA	Bega to Yellow Pinch Pipeline 2	North Team	BVSC	Mowed	W&SS	44,2
BEGA	Cemetery Reservoir	North Team	BVSC	Mowed	W&SS	1,01
BEGA	East St SPS	North Team	BVSC	Mowed	W&SS	20
BEGA	High St Reservoir	North Team	BVSC	Mowed	W&SS	2,29
BEGA	Hospital SPS	North Team	BVSC	Mowed	W&SS	62
BEGA	Minyama Pd SPS	North Team	BVSC	Mowed	W&SS	4
BEGA	Nelson St SPS	North Team	BVSC	Mowed	W&SS	29
BEGA	North Bega Reservoir	North Team	BVSC	Mowed	W&SS	49
BEGA	South Bega Booster	North Team	BVSC	Mowed	W&SS	38
BEGA	South Bega Reservoir	North Team	BVSC	Mowed	W&SS	8,76
BEGA	Swan St SPS	North Team	BVSC	Mowed	W&SS	1
BEGA	Taronga Crescent Paddock	North Team	BVSC	Mowed	W&SS	37,0
BEGA	Tarraganda SPS	North Team	BVSC	Mowed	W&SS	63
BEGA	Valley St SPS	North Team	BVSC	Mowed	W&SS	3
BEMBOKA	Bemboka Reservoir	North Team	BVSC	Mowed	W&SS	1,14
BEMBOKA	Bemboka Rising main	North Team	BVSC	Mowed	W&SS	64
BEMBOKA	Bemboka WPS	North Team	BVSC	Mowed	W&SS	4,44
BEMBOKA	Bemboka WPS 2	North Team	BVSC	Mowed	W&SS	54
BERMAGUI	Barragoot St Reservoir	North Team	BVSC	Mowed	W&SS	1,29
BERMAGUI	Bermagui Re-use Tanks	North Team	BVSC	Mowed	W&SS	1,23
BERMAGUI	Bunga St SPS	North Team	BVSC	Mowed	W&SS	267,04

File Utilities Upload Setup Record Analyse Report Window
Open DB Requests Incidents Inspections Defects Planned Works Work

Locations - View

Card View Explore View Attachments View

Primary Location	BERMAGUI
Location	Wallaga Lake Rd SPS
Description	
Location Category	BVSC
Location Type 1	North Team
Location Type 2	Mowed
Location Type 3	W&SS
Location Type 4	
Location Type 5	
Location Type 6	
Location Type 7	
Location Type 8	
Location Type 9	
Location Type 10	
Job Number	3956
Length	0.00
Sequence	113
Location Map Ref #	205
Width	
Area	118.63

Bega Valley Shire - Mowing Management

Work Teams with allocated standard resources enable the team to automatically book time against the council mowing fleet.

This estimated cost of all work is calculated by multiplying the Time worked for accomplishment by the resource rate.

Work Teams

Work Teams - View

REFLECT

Card View

Explore View

Work Team

Description

Team Size

Work Team Resources (7)

NORTHERN MOWING (1)

Northern Mowing Crew (standard configuration)

4

Resource	Description	Quantity	Unit of Meas	Rate
194501	KUBOTA FRONT DECK	1.00	hrs	40.00
194901	KUBOTA ZERO TURN M	1.00	hrs	15.00
1950	KUBOTA FRONT DECK	1.00	hrs	40.00
2013	Isuzu Dmax Single Cab	1.00	hrs	8.00
25707	Tom McLeod	1.00	hrs	50.00
25737	Scott McKenner	1.00	hrs	50.00

Add

Edit

Remove

Bega Valley Shire - Mowing Management

Work Groups and Activities were set up to ensure the correct job cost number is automatically generated by Reflect

Work Groups - View

Card View Explore View

Work Group Description

Work Group Locations (135)

Primary Location	Location	Location Category	Location Type 1	Location Type 2	Location Type 3
BEGA	Auckland Street Road Reserve	BVSC	North Team	Mowed	Transport
BEGA	Bega Street Road Reserve	BVSC	North Team	Mowed	Transport
BEGA	Bridge Street	BVSC	North Team	Mowed	Transport
BEGA	Bypass Bega Roundabout	BVSC	Town Team	Mowed	Transport
BEGA	Carp Street Road Reserve	BVSC	North Team	Mowed	Transport
BEGA	East Street Road Reserve	BVSC	North Team	Mowed	Transport
BEGA	Howard Avenue	BVSC	North Team	Mowed	Transport
BEGA	Lagoon Street Footpath	BVSC	North Team	Mowed	Transport
BEGA	Lynjohn Drive	BVSC	North Team	Mowed	Transport
BEGA	Nelson Street Drainage Reserve	BVSC	North Team	Mowed	Transport
BEGA	North Bega Entrance	BVSC	North Team	Mowed	Transport
BEGA	Poplar Avenue Road Reserve	BVSC	North Team	Mowed	Transport
BEGA	Rawlinson Street	BVSC	North Team	Mowed	Transport
BEGA	Rawlinson Street Drainage Reserves	BVSC	North Team	Mowed	Transport
BEGA	Southern Entrance Bega	BVSC	North Team	Mowed	Transport
BEGA	Tathra Road	BVSC	North Team	Mowed	Transport
BEGA	Upper and Parker Street	BVSC	North Team	Mowed	Transport

Activities - View

Card View Explore View History View

Work Group LEISURE

Activity MOWING

Activity Name Ride on and pushmower brushcutting etc

Unit of Measure m2

Cost

Job Number .2329

Use Location Length

Use Location Width

Use Location Area

Symbol Style M

Activities - View

Card View Explore View History View

Drag a column head

Work Group	Activity	Activity Name	Unit of Measure	Job Number
LEISURE	INSPECTION	Inspection of area	jobs	.2329
LEISURE	MOWING	Ride on and pushmower brushcutting etc	m2	.2329
LEISURE	SLASHING	Tractor Slashing	m2	.2329
TRANSPORT	MOWING	Ride on and pushmower brushcutting etc	m2	.2309
TRANSPORT	SLASHING	Tractor Slashing	m2	.2309
W&SS	INSPECTION	Inspection of area	jobs	.2305
W&SS	MOWING	Ride on and pushmower brushcutting etc	m2	.2305
W&SS	SLASHING	Tractor Slashing	m2	.2305
TRANSPORT	INSPECTION	Inspection of area	jobs	.2217
SPECIAL	MOWING	Ride on and pushmower brushcutting etc	m2	
SPECIAL	SLASHING	Tractor Slashing	m2	

Bega Valley Shire - Mowing Management

Location Zones group the mow areas into manageable lots.

From there PW schedules are created for the Work Teams.

This information is viewable on tablets and phones

Location Zones - View	
Card View	Explore View
Map View	
Drag a column header here to group by that column	
Location Zone	Description
Bega Northern Mowing	Mowing in the township of Bega programmed for the Northern Mowing Team this also includes Tarraganda
Bega Town Team Mowing	Mowing in Area 2 programmed for the Bega Town Team
Bemboka Northern Mowing	Mowing in the township of Bemboka programmed for the Northern Mowing Team
Bermagui Northern Mowing	Mowing in the township of Bermagui programmed for the Northern Mowing Team this also includes Wallaga Lake and Tilba Tilba
Bermagui Town Team Mowing	Mowing in Area 1 programmed for the Bermagui Town Team
Brogo Northern Mowing	Mowing in the location of Brogo programmed for the Northern Mowing Team
Candelo Northern Mowing	Mowing in the village of Candelo programmed for the Northern Mowing Team this also includes Toothdale
Cobargo Northern Mowing	Mowing in the village of Cobargo programmed for the Northern Mowing Team this also includes Wandella & Yowrie sites
Contractor Mowing	Mowing complete on behalf of Council by contractors
Eden Southern Mowing	Mowing in the Township of Eden programmed for the Southern Mowing Team
Merimbula Southern Mowing	Mowing in the Township of Merimbula programmed for the Southern Mowing Team this also includes Berambool, Mirador and Millingandi
Merimbula Town Team Mowing	Mowing in Area 3 programmed for the Merimbula Town Team
Pambula, Pambula Beach, South Pambula Sout	Mowing in the Township of Pambula programmed for the Southern Mowing Team this also includes, Pambula Beach, South Pambula, Broadwater
Quaama Northern Mowing	Mowing in the village of Quaama programmed for the Northern Mowing Team
Sports Field Mowing	Sports field mowing throughout the shire
Tathra, Kalaru & Mogareeka Northern Mowing	Mowing in the Township of Tathra programmed for the Northern Mowing Team this also includes Kalaru, Wallagoot & Mogareeka sites
Tura Beach Southern Mowing	Mowing in the Township of Tura Beach programmed for the Southern Mowing Team
Wolumla Southern Mowing	Mowing in the village of Wolumla programmed for the Southern Mowing Team this also includes Frogs Hollow an Yellow Pinch
Wyndham & Towamba Southern Mowing	Mowing in the villages of Wyndham & Towamba programmed for the Southern Mowing Team this also includes Nullica

File

Utilities

Upload

Record

Analyse

Report

Window

Help

Developer

Open DB

Requests

Incidents

Inspections

Defects

Planned Works

Work Orders

Accomplishment

Claim

Nonconformance

NPSN

Forms

Library

Planned Works Schedules - View

Card View

Explore View

Map View

Google View

Attachments View

Drag a column header here to group by that column

Planned Works Sched	Work Team	Activity	Start Date	Frequency	Type	Reschedule Enabled	Reschedule From	Location Zone
						<input type="checkbox"/>		
▶ WS00001	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Bega Northern Mowing
WS00002	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Bemboka Northern Mowing
WS00003	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Bermagui Northern Mowing
WS00004	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Candelo Northern Mowing
WS00005	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Cobargo Northern Mowing
WS00006	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Quaama Northern Mowing
WS00007	NORTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Tathra, Kalaru & Mogareeka Northern Mowing
WS00008	SOUTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Eden Southern Mowing
WS00009	SOUTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Merimbula Southern Mowing
WS00010	SOUTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Pambula, Pambula Beach, South Pambula Southern Mowing
WS00011	SOUTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Tura Beach Southern Mowing
WS00012	SOUTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Wolumla Southern Mowing
WS00013	SOUTHERN MOWING (1)	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Wyndham & Towamba Southern Mowing
WS00014	BEGA TOWN TEAM	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Bega Town Team Mowing
WS00015	BERMAGUI TOWN TEAM	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Bermagui Town Team Mowing
WS00016	CONTRACTOR	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Contractor Mowing
WS00017	MERIMBULA TOWN TEAM	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Merimbula Town Team Mowing
WS00018	SPORTS FIELDS	MOWING	05/07/2018	Months		<input checked="" type="checkbox"/>	Completion Date	Sports Field Mowing

Bega Valley Shire - Mowing Management

RW - C:\Asset Edge Clients\NSW Clients\Local Government\Bega Valley Council\BEGA_MOWING.SDF - [Planned Works]

File Utilities Upload Setup Record Analyse Report Window Help Developer

Open DB Requests Incidents Inspections Defects **Planned Works** Work Orders Accomplishment Claim Nonconformance NPSN Forms Pre-Start Library

Card View Explore View Map View Google View Attachments View History View Job Documents

M PW01718
Planned Work Number: PW01718
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01719
Planned Work Number: PW01719
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01717
Planned Work Number: PW01717
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01715
Planned Work Number: PW01715
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01726
Planned Work Number: PW01726
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01725
Planned Work Number: PW01725
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01729
Planned Work Number: PW01729
Defect Number:
Inspection Number:
Request Number:
Planned Work Type:

M PW01724
Planned Work Number: PW01724
Defect Number:
Inspection Number:

Map Satellite

Show: **Planned Works - 01 All Planned Work targeted for this week** 55 items

Windows Google View

Bega Valley Shire - Mowing Management

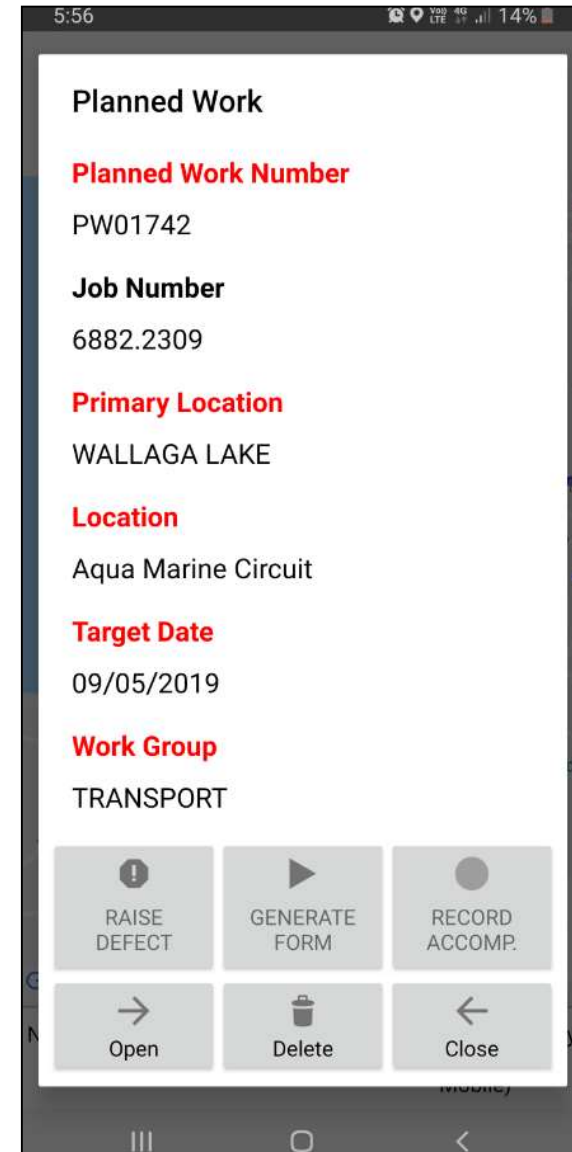
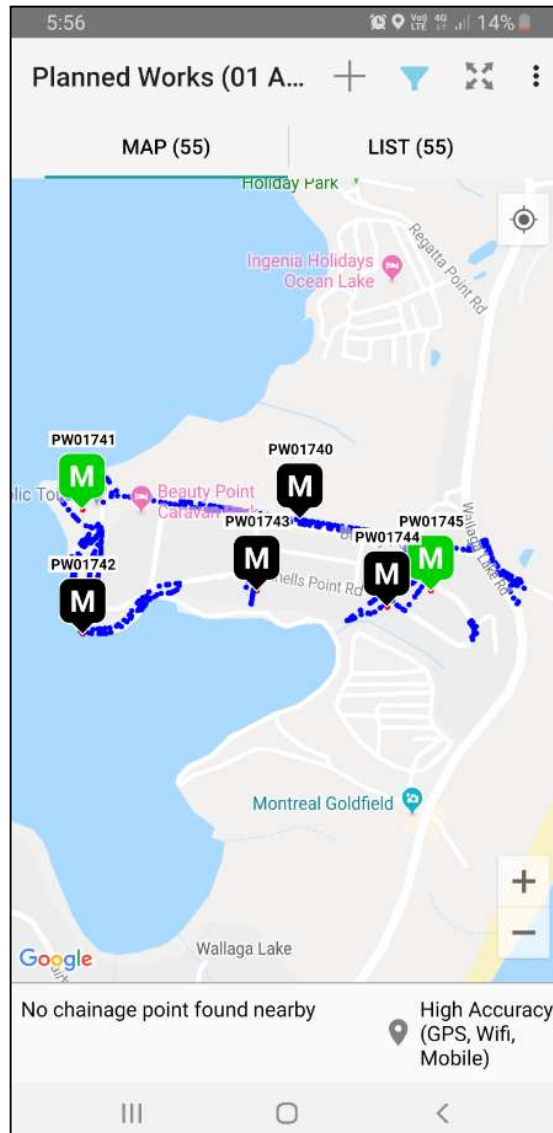
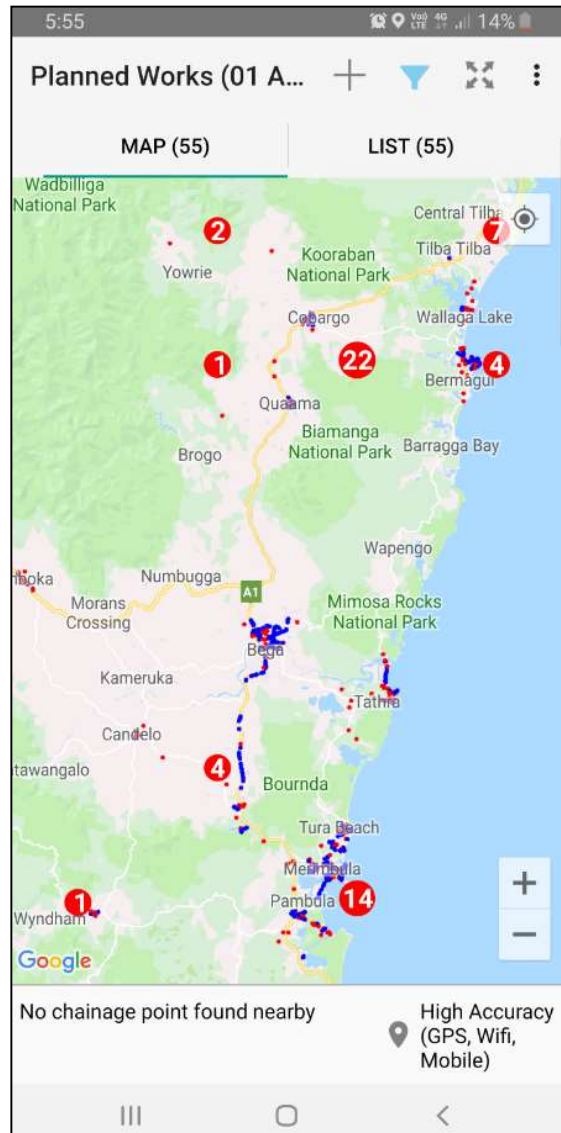
Windows Explore View

Planned Works - View

Drag a column header here to group by that column												
Planned	Work Numb	Primary Location	Location	Activity Name	Unit of Measure	Target Date	Work Group	Job Number	Reschedule Enabled	Location Type 1	Location Type 2	Location Type 3
									<input type="checkbox"/>			
PW01718		BERMAGUI	Point Dickinson	Ride on and pushmower brushcutting etc	m2	05/05/2019	LEISURE	6118.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01719		WYNDHAM	Gordon Street Wyndham	Ride on and pushmower brushcutting etc	m2	05/05/2019	TRANSPORT	6909.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01717		BERMAGUI	State of NSW Headland Reserve	Ride on and pushmower brushcutting etc	m2	05/05/2019	LEISURE	6029.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01715		BERMAGUI	Co-op Bermagui River Reserve	Ride on and pushmower brushcutting etc	m2	05/05/2019	LEISURE	6029.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01726		PAMBULA	Pambula Beach Road Pambula	Ride on and pushmower brushcutting etc	m2	08/05/2019	TRANSPORT	6887.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01725		COBARGO	Park Street	Ride on and pushmower brushcutting etc	m2	08/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01729		PAMBULA	Narregol, Toallo, Munje Street	Ride on and pushmower brushcutting etc	m2	08/05/2019	TRANSPORT	6887.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01724		COBARGO	Princes Hwy Cobargo	Ride on and pushmower brushcutting etc	m2	08/05/2019	TRANSPORT	6940.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01728		PAMBULA	Pambula SPS 5	Ride on and pushmower brushcutting etc	m2	08/05/2019	W&SS	3958.2305	<input checked="" type="checkbox"/>	South Team	Mowed	W&SS
PW01732		PAMBULA	Bullara Street	Ride on and pushmower brushcutting etc	m2	08/05/2019	TRANSPORT	6887.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01731		PAMBULA	Arthur Kaine Drive Pambula	Ride on and pushmower brushcutting etc	m2	08/05/2019	TRANSPORT	6944.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01742		WALLAGA LAKE	Aqua Marine Circuit	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6882.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01741		WALLAGA LAKE	Beauty Point Reserve	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	6119.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01740		WALLAGA LAKE	Beauty Point Road	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6882.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01745		WALLAGA LAKE	O'Connells Point Road Park	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	6028.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01749		PAMBULA	Ives/Narregol St Walkways	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6887.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01748		PAMBULA	Brunker Street	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6887.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01743		WALLAGA LAKE	Bay Road Reserve	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6882.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01746		WALLAGA LAKE	Camel Rock Reserve	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	6125.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01733		BERMAGUI	Bermagui Flora And Fauna Reserve	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	6029.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01744		WALLAGA LAKE	O'Connells Point Road Reserve	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6882.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01735		WANDELLA	Wandella Hall	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	6026.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01736		COBARGO	Town Park Community Park	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	6079.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01734		YOWRIE	Yowrie Road Barbeque	Ride on and pushmower brushcutting etc	m2	09/05/2019	TRANSPORT	6026.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01747		BERRAMBOOL	Berrambool Soccer Small	Ride on and pushmower brushcutting etc	m2	09/05/2019	LEISURE	2251.2329	<input checked="" type="checkbox"/>	Sports Field	Mowed	Leisure
PW01744		WOLUMLA	Town Park Wolumla	Ride on and pushmower brushcutting etc	m2	10/05/2019	LEISURE	6054.2329	<input checked="" type="checkbox"/>	South Team	Mowed	Leisure
PW01756		COBARGO	Wandella Road Fire Shed	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01757		COBARGO	Bega Street Cobargo	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01751		COBARGO	Avernus Street	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01763		QUAANA	Quaana Memorial Park	Ride on and pushmower brushcutting etc	m2	10/05/2019	LEISURE	6027.2329	<input checked="" type="checkbox"/>	North Team	Mowed	Leisure
PW01762		COBARGO	Aussie Pre-cast	Ride on and pushmower brushcutting etc	m2	10/05/2019	W&SS	3960.2305	<input checked="" type="checkbox"/>	North Team	Mowed	W&SS
PW01758		COBARGO	Wandella Road Fire Shed	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01753		COBARGO	Bank Street	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01771		WOLUMLA	Scott Street	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6925.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01754		COBARGO	Narira Street	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01770		WOLUMLA	Bega Street Wolumla	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6925.2309	<input checked="" type="checkbox"/>	South Team	Mowed	Transport
PW01759		COBARGO	Cobargo Re-use Pond	Ride on and pushmower brushcutting etc	m2	10/05/2019	W&SS	3956.2305	<input checked="" type="checkbox"/>	North Team	Mowed	W&SS
PW01750		COBARGO	Cobargo Bermagui Road	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6892.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01761		COBARGO	Hoyer Street	Ride on and pushmower brushcutting etc	m2	10/05/2019	TRANSPORT	6886.2309	<input checked="" type="checkbox"/>	North Team	Mowed	Transport
PW01767		WOLUMLA	Wolumla Park Trust	Ride on and pushmower brushcutting etc	m2	10/05/2019	LEISURE	6054.2329	<input checked="" type="checkbox"/>	South Team	Mowed	Leisure

Bega Valley Shire - Mowing Management

Android Mobile View



Bega Valley Shire - Mowing Management

Android Mobile View

5:57 14%

AC02273

DETAILS IMAGES LOCATION

Accomplishment Number

AC02273

Planned Work Number

PW01742

Accomplishment Date

08/05/2019

Primary Location

WALLAGA LAKE

Location

AQUA MARINE CIRCUIT

Work Group

TRANSPORT

Activity

MOWING

CANCEL SAVE

5:57 14%

AC02273

DETAILS IMAGES LOCATION

Activity

MOWING
RIDE ON AND PUSHMOWER BRUSHCUTTING ETC

Quantity Accomplished (m2)

2325.82

Work Team

NORTHERN MOWING (1)

Work Team Size

4

Time Worked

1:00

Job Number

6882.2309

Comments

CANCEL SAVE

5:57 14%

AC02273

DETAILS IMAGES LOCATION

Comments

☒ **Completed**

☒ **Compliance**

☒ **Job Safety Analysis**

Latitude / Longitude

-36.380115, 150.063001

Accomplishment Resources

[7 resources allocated]

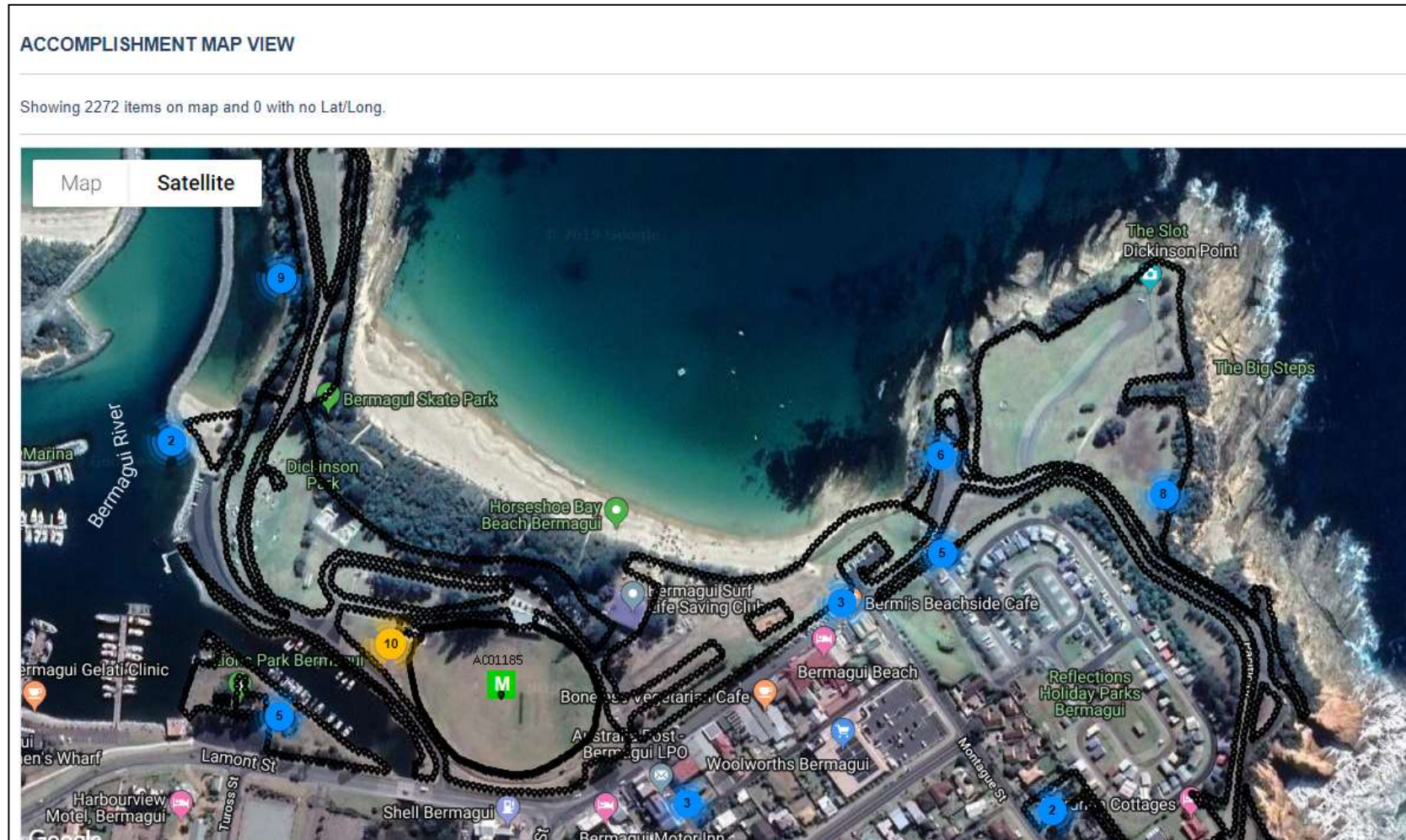
- 1.00 (hrs) 194501
- 1.00 (hrs) 194901
- 1.00 (hrs) 1950
- 1.00 (hrs) 2013
- 1.00 (hrs) 25707
- 1.00 (hrs) 25737
- 1.00 (hrs) 280802

Start Time

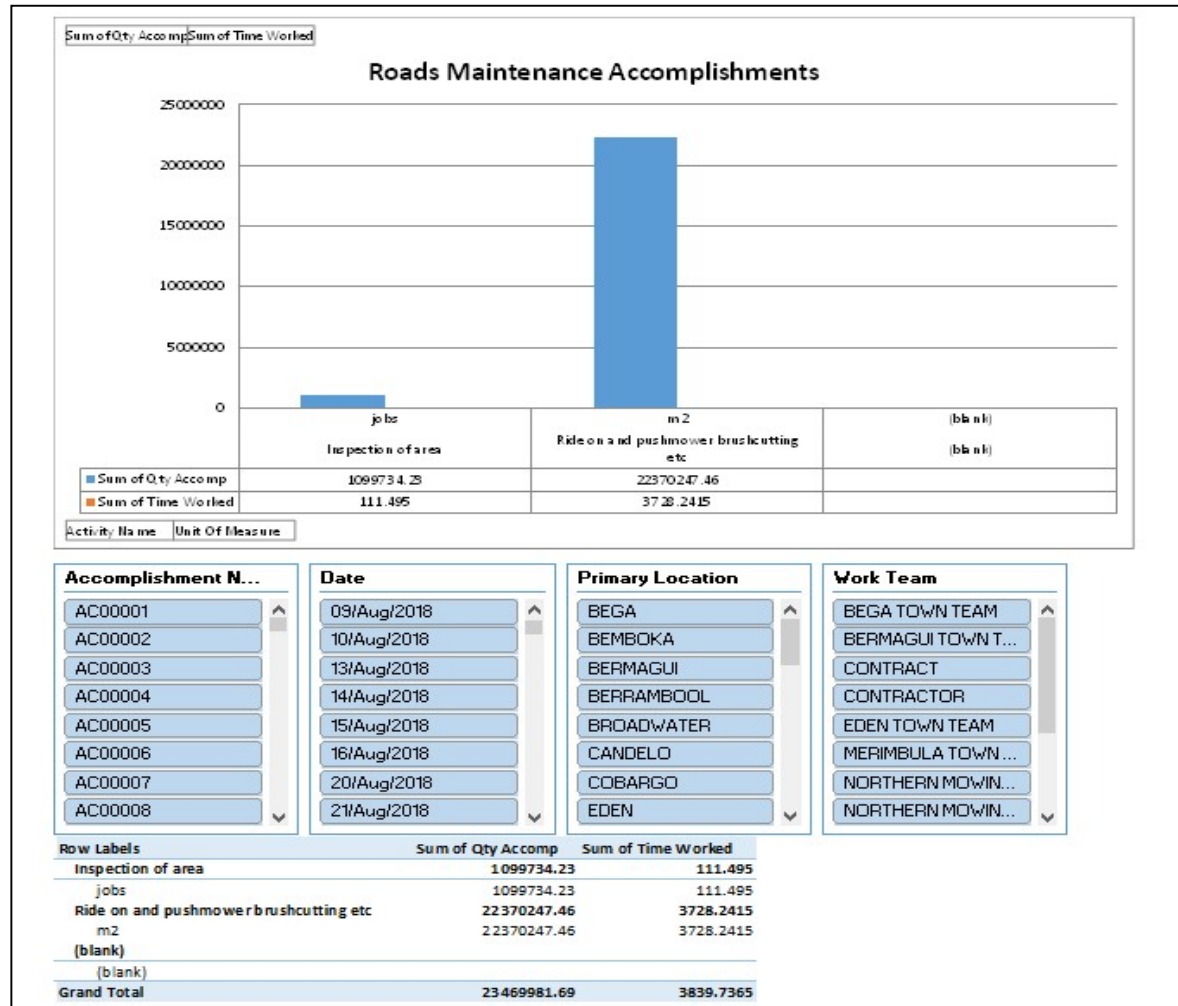
CANCEL SAVE

Bega Valley Shire - Mowing Management

Web View - Accomplishment



Bega Valley Shire - Mowing Management



BVSC is continuing effort to report and utilise the data recorded in the field by the work teams.

It is anticipated that many efficiencies will be gained through mobilizing teams with work programs and using the E-Form capabilities for compliance.

Once setup the system requires very little effort with scheduling and reporting of work a high priority.


Bega Valley Shire - Mowing Management

Android Mobile View – E-Form

5:33 20%

Electronic Forms

Advanced Electronic Forms Mode ☐ ⓘ



 **Daily Plant Pre-start Check & Maintenance Record**

5:34 19%



FN00262

DETAILS IMAGES LOCATION



Tyres

OK  



Wheel nuts

OK  



Windscreen/Washer

NOT APPLICABLE  



Ring feeder

NOT APPLICABLE  



Draw bar

NOT APPLICABLE  

Mirrors

OK  

Seats

OK  

Seat belts

5:34 19%

FN00262

DETAILS IMAGES LOCATION



Workshop Notification

☐ Faults have been found (Tick for Yes, leave blank for no)

Have faults previously been identified?

☐ (If yes do not fill in description or take photos)



Description of faults found (Brief description of the faults found, attach photos if needed)

☐ Does any fault indicated above constitute a safety hazard?

☐ Does the machine need immediate repair?

If YES is the answer to either of the last two questions (the machine must be parked and a "Do Not Operate" tag affixed. The machine will not be used again until repaired or clearance is given by either the workshop or supervisor)



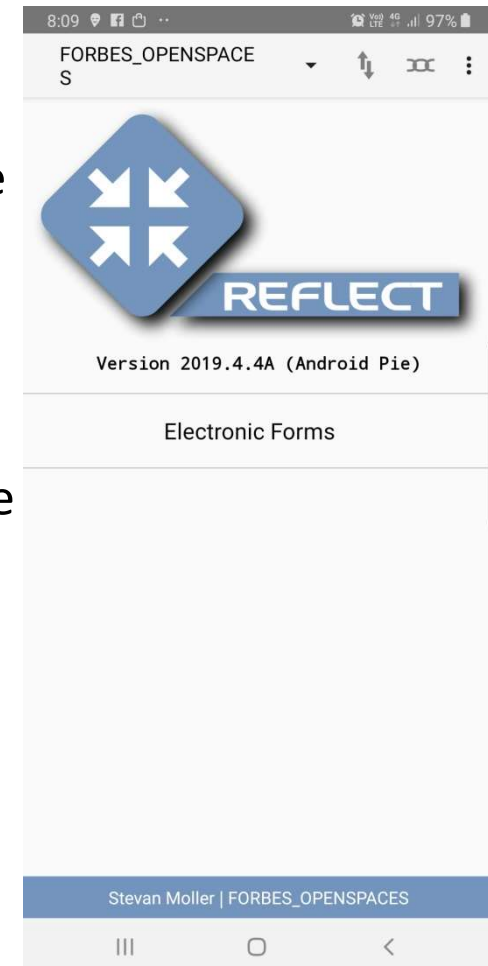
Collecting Asset Locations with E-forms

Forbes Shire – E-form Asset Capture

Forbes Shire Council in NSW requested Asset Edge to build several databases for the purpose of initially capturing unmapped asset locations that can later be developed into maintenance management. At this stage the 3 databases being used for asset capture are Open Spaces, Quarries and Aerodromes. With the asset collection for Open Spaces completed a location model has now been developed for the purpose of recording maintenance activities within Reflect. All work was done within the Premium Level Services (PLS) arrangement.

The brief was to:

- Create a simplified collection form that could record the locations, asset types and pictures
- Create a location model from the collected information



Forbes Shire – E-form Asset Capture

Forbes Shire had a register of Open Spaces but historically no mapping had been undertaken.

Prior to e-form field collection the register of open spaces was used to develop the Primary Location and Location models within Reflect. A list of Asset types to collect was provided by Forbes Shire and setup as a look up list attribute. Location types were also included in the location model with one being called “open space centre point”

The initial input of this information made for quick look up lists for the inspector in the field to select rather than manually type out.

Inspection Form Attributes

Inspection Form Attributes - Edit

Card View Explore View

Attribute ... Asset Type

Sequence ... 5

Type ... Lookup List

Length ... 30 Only applies to Text-types

Description/Formula/Shared Lookup

Electronic Form Attribute Lookup

Lookup Value	Description
Memorial plaques	
Monitoring Equipment	
Open Space Centre Point	
Park Sign	
Picnic Table	
Playground	

Add Edit Remove

Save Cancel

5 of 10

Forbes Shire – E-form Asset Capture

8:34 VoWi 4G LTE 89%

FN01

DE

ION

Form

FN01

Prim

ALBI

Local

ALBI

Local

Parks

Com

Latitu

-32.9

Name

Select Primary Location

enter search term x

Albion Park

Alma Sharp Park

Andrew Peet Memorial Park

Apex Park

Aquatic Area

BMX Track

Botanical Gardens Complex

Carrington Gardens

Cemetery

CANCEL SAVE

8:33 VoWi 4G LTE 89%

FN01

DE

ION

Local

Asse

[BLA]

Local

[BLA]

Cond

[BLA]

Asse

Supp

Addi

Select Asset Type

enter search term x

Aerodrome/Helipad

BBQ

Bench

Bike Rack

Bike Track

Bin

Boat Ramp

Building / Shelter

Bush Shelter

CANCEL SAVE

8:33 VoWi 4G LTE 89%

FN01

DE

ION

Local

Asse

[BLA]

Local

[BLA]

Cond

[BLA]

Asse

Supp

Addi

Select Location Type

enter search term x

Cemetery

Other

Recreation Area

Rest Area

Sporting Field

CANCEL SAVE

Forbes Shire – E-form Asset Capture

The use of e-forms allowed the inspectors in the field to quickly capture the information and photos of the assets relating to each of the open space areas.

The screenshot shows a mobile application interface for capturing asset information. At the top, the status bar displays the time 8:33, signal strength, and battery level at 89%. The app header shows the asset ID 'FN01064' and icons for camera, gallery, and a menu. Below the header, there are three tabs: 'DETAILS' (selected), 'IMAGES', and 'LOCATION'. The 'DETAILS' tab contains several form fields, each with a search icon and a delete 'X' button: 'Location Address', 'Asset Type' (with a dropdown menu showing '[BLANK]'), 'Location Type' (with a dropdown menu showing '[BLANK]'), 'Condition' (with a dropdown menu showing '[BLANK]'), 'Asset Description', 'Supplier ((if Applicable))', and 'Additional Information'. At the bottom right of the form are 'CANCEL' and 'SAVE' buttons. The bottom of the screen shows standard Android navigation icons.



By capturing photos of each of the assets Forbes has retained a pre-condition at the time of collection

Forbes Shire – E-form Asset Capture

From the web view the location of the assets is visible on the map and information about each of the assets is readily obtainable by anyone given access to the database.

ASSET CAPTURE MAP VIEW

Showing 1053 items on map and 0 with no Lat/Long.



Chainage loaded.

Forbes Shire – E-form Asset Capture

As e-forms record a GPS location that information was able to be easily extracted along with the recorded primary location and location and loaded into the chainage points model within Reflect.



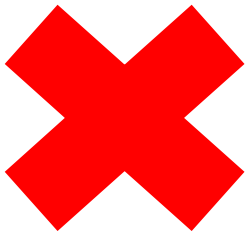
Chainage	Primary Location	Location	Latitude	Longitude
0.00	BMX Track	BMX Track	-033.38444280	148.01350850
0.00	Tin Tuppa Park	Tin Tuppa Park	-033.38334360	148.00122530
0.00	Sister O'delia Park	Sister O'delia Park	-033.40094690	148.01063450
0.00	Albion Park	Albion Park	-033.38499340	148.00718790
0.00	Halpins Flat	Halpins Flat	-033.38574050	148.00295240
0.00	VI Adams Park	VI Adams Park	-033.37364320	148.00662930
0.00	Cemetery	Cemetery	-033.37154860	147.99500820
0.00	South Circle Oval	South Circle Oval	-033.38904910	148.01091160
0.00	Lions Park	Lions Park	-033.38962580	148.00449590
0.00	Carrington Gardens	Carrington Gardens	-033.37298390	148.00269940
0.00	Grinstead Oval	Grinstead Oval	-033.38914860	148.00962970
0.00	Willis Place Park	Willis Place Park	-033.39437060	148.01381410
0.00	Rotaract Park	Rotaract Park	-033.39081030	148.01244840
0.00	Stephan Field	Stephan Field	-033.38374280	148.00410800
0.00	Reymond Street Park	Reymond Street Park	-033.40328180	148.01408260
0.00	Crippen Park	Crippen Park	-033.38175620	148.01077010
0.00	Nelson Park	Nelson Park	-033.37592360	148.00444980
0.00	Edols Park	Edols Park	-033.39051490	148.00729410
0.00	North Circle Park (Fra	North Circle Park (Fra	-033.38774040	148.01170610
0.00	Sister Gardiner Park	Sister Gardiner Park	-033.36989340	148.00693310
0.00	Alma Sharp Park	Alma Sharp Park	-033.37847730	147.99357930
0.00	Jenny Murphy Park	Jenny Murphy Park	-033.36548040	148.00268210
0.00	Gaggin Oval	Gaggin Oval	-033.38534910	148.00215190
0.00	Spooner Oval	Spooner Oval	-033.39079020	148.00159000
0.00	Colin McKenzie Park	Colin McKenzie Park	-033.38707920	148.00344880
0.00	Andrew Peet Memoria	Andrew Peet Memoria	-033.36281570	148.00702250
0.00	Eloora Place Park	Eloora Place Park	-033.37162900	148.00048310
0.00	Hughie Wilson Oval	Hughie Wilson Oval	-033.39235140	148.00134420
0.00	Clematis Street Park	Clematis Street Park	-033.36677440	148.00680590

At this stage only the open space area centre points have been loaded into the points model with a Defect Groups model set up to handle the individual assets within the open space area due to GPS inaccuracies at specific asset points

Forbes Shire – E-form Asset Capture

THE GOOD

- Quick way to capture locations and information to get a database running without pre-existing maps.
- Easy to setup and use in the field
- Cost effective.
- Can be used to generate maps in most mapping utilities



THE BAD

- GPS accuracy on Android is still limited
- Location correction using satellite view limited by zoom and trees overhanging assets.

NOTE: Whilst this is a quick, easy and cost effective solution to getting your database maintenance recording ready you should always consider the accuracy of the data you wish to collect.