

# Forfeiture Data Collection

Mobile App with Collector for ArcGIS

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Allegan County GIS  
[www.allegancounty.org/gis](http://www.allegancounty.org/gis)

December 18, 2018



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### 0.0.1 Forfeiture Data Collection

#### Problem and Analysis

**Background** Treasurer department has an annual responsibility to properly document the tax forfeiture process. The LIS Department built an application in MS Access and MapInfo that consumed a daily export from BSA and was deployed to the field on a laptop. A digital camera was used for site photos and later imported into the laptop.

**Statement of Problem** The current Tax Forfeiture workflow is built on Map-Info software and MS Access and executed on a laptop pc. Both MapInfo and MS Access are no longer supported in county workflows. ESRI software can be used to rebuild the workflow. *Forfeiture Data Collector Application, (Forfeiture App)* must be recreated in the ESRI framework.

**Analysis** **Forfeiture App** will facilitate: *Mobile data collection on a handheld device,; (Mobile Interface)* and *an in office workflow to complete data processing, (Pre and PostProcessing)*

#### Mobile Interface will:

- Synchronize with data in the office (online)
- Collect data and photos of forfeiture sites (offline)
- Synchronize the collected data with data in the office (online)

#### Pre and Post Processing will:

- Produce and print a form for each site visited with required data and images

## Design

**Overview** The key data set : **Forfeiture Parcels** is used through the workflow

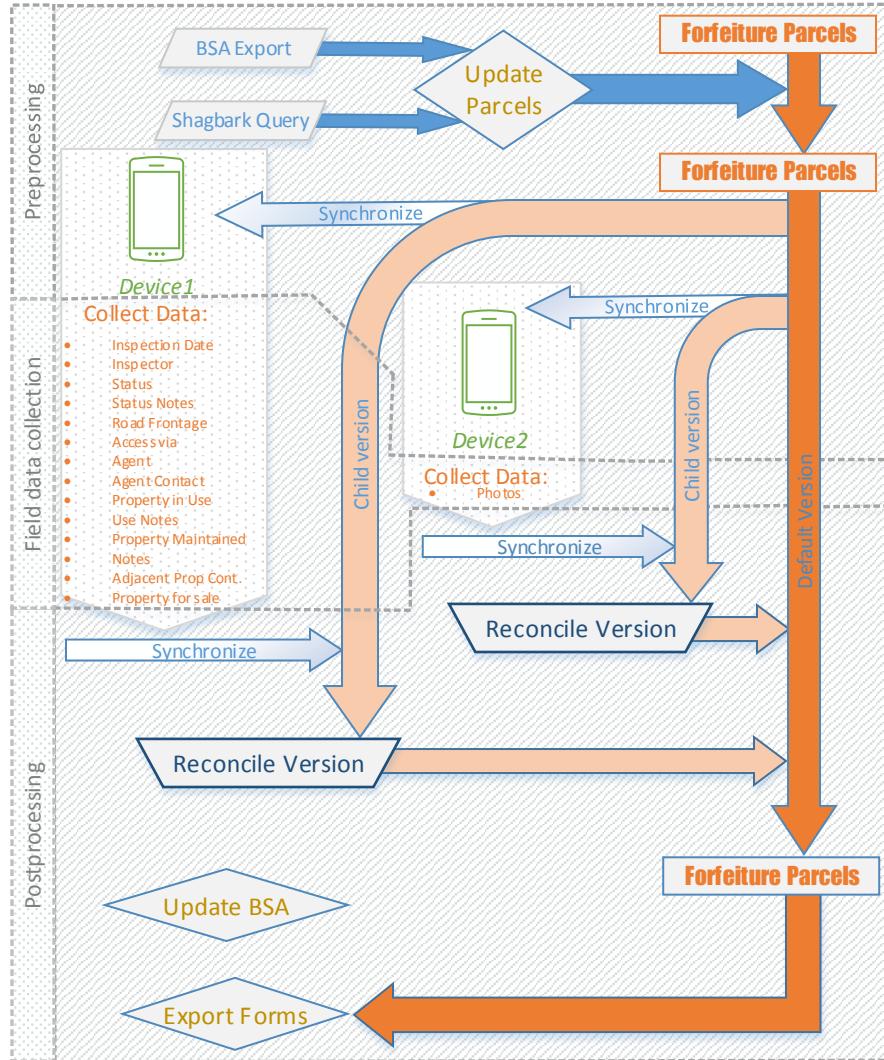


Figure 1: Project Design

**Forfeiture App Summary** There are three parts to the daily routine:

1. Preprocessing (in the office):

- Export current forfeiture list from BSA
- Update Forfeiture Parcels with BSA export
- Update Forfeiture Parcels with contaminated sites information
- Synchronize Forfeiture Parcels to Mobile Interface

2. Field data collection with Mobile Interface:

- Aids in navigation
- Provides a Checklist of data points for each site
- Attaches photos for each site
- Save results for synchronization in post-processing

3. Post-processing (in the office)

- Synchronize data and images collected in Mobile Interface to Forfeiture Parcels
- Export form for each site
- Print form for each site
- Update BSA data

## Technologies Used in The Forfeiture App

**BSA Data** Details of parcels in the forfeiture process are managed in BSA Delinquent Tax.net. The Treasurer office does a BSA export of the parcels in need of a site visit in the preprocessing.

**ArcGIS Desktop** Tools are designed to preprocess and postprocess forfeiture parcel data for fieldwork. The user will execute a preprocess script tool that prepares the data for field deployment. After fieldwork, a post process script tool syncronizes data from the fieldwork with the live data on the Allegan County network.

**ArcGIS Collector** A free mobile application developed and tested on Android is deployed to the field for data collection.

The application is configured to work offline (without an internet or cellular connection) by syncronizing before and after fieldwork. The user collects the necessary information on each forfeiture parcel in the field disconnected, and then uploads the changes when reconnected.

**Enterprise Geodatabase** Live data from a publishing geodatabase (ACPub), running on SQL Server database server (acintsql01) provides access to Forfeiture Parcels

**ArcGIS Portal** Forfeiture Parcels is served as a feature service (REST service) named TaxReversionParcels. A webmap on Portal, called the Forfeiture Field Map consumes the TaxReversionParcels exposing the data to editing. The Forfeiture Field Map is configured to work in the ArcGIS Collector App.

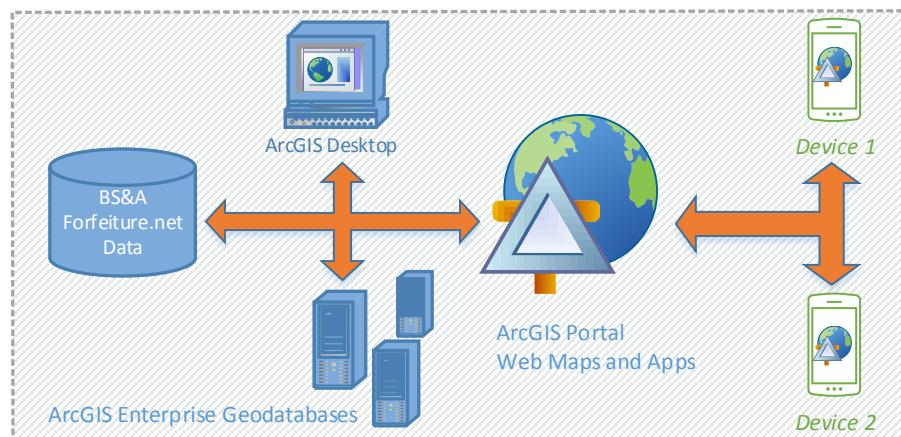


Figure 2: Technology Design

## Data Details

The data is located in a geodatabase called ACPUB. ACPUB is on SQL Server AC-INTSQL01.

Forfeiture Parcels Data

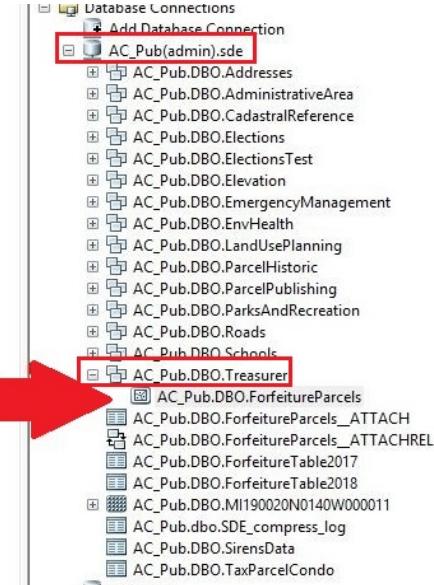


Figure 3: Live Data Location

Contamination Data

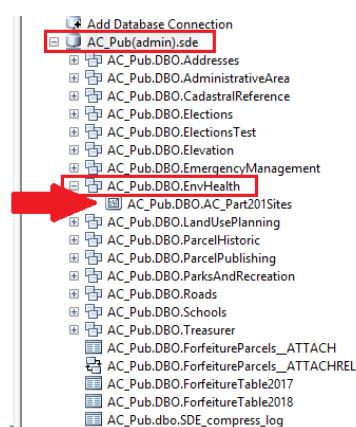


Figure 4: Contamination Feature Class

### ForfeitureParcels Feature Class

Attribute Details			
Field Name	Field Alias	Entry Type	Note
PropertyNumber	Property Number	Prefilled	NA
Need2Print	Print Today	Dropdown	Yes or No
InspectionDate	Inspection Date	Autofill or Dropdown	NA
Inspector	Inspector	Dropdown	NA
Address	Address	Prefilled	NA
Status	Status	Dropdown	NA
StatusNotes	Status Notes	Open Entry	120Char
Roadfrontage	Road Frontage	Dropdown	Yes or No
AccessVia	Access Via	Open Entry	30Char
Agent	Agent	Open Entry	30Char
AgentContact	Agent Contact	Open Entry	30Char
PictureComments	Picture Comments	Open Entry	50Char
PropertyInUse	Property In Use	Dropdown	Yes or No
UseNotes	Use Notes	Open Entry	120Char
PropertyMaintained	Property Maintained	Dropdown	Yes or No
PropMaintNotes	Property Maintained Notes	Open Entry	120Char
PropertyContaminated	Property Contaminated	Prefilled	Preprocessing
PropertyContaminatedNotes	PropertyContaminatedNotes	Prefilled	Preprocessing
AdjacentPropertyContaminated	Adjacent Property Contaminated	Prefilled	Preprocessing
AdjPropertyContaminatedNotes	Adj Property Contaminated Notes	Prefilled	Preprocessing
PropertyForSale	Property For Sale	Dropdown	Yes or No
GlobalID	GlobalID	NA	NA
PostedDate	Posted Date	Dropdown	Date
Posted	Posted	Prefilled	NA
InList	In List	Prefilled	Preprocessing
PostedInList	Posted In List	Prefilled	Preprocessing
Acres	Acres	Prefilled	NA
Class	Class	Prefilled	NA

Table 1: Dataset Details

**Webmap Details** The Forfeiture Field Map is made up of a basemap and a feature layer.



Figure 5: Web Map Details

**Feature Layer Details** TaxReversionParcels has been configured for offline use.

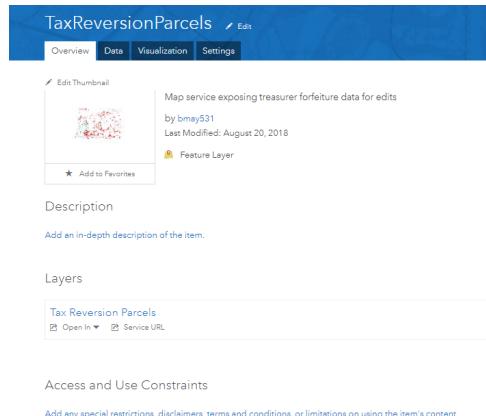


Figure 6: Feature Layer Details

## Basemap Details

- A tiled basemap service is used
- The infoserv user credentials are used for sharing
- The url for the shared service is:

[https://tiledbasemaps.arcgis.com/arcgis/rest/services/World\\_Street\\_Map/MapServer](https://tiledbasemaps.arcgis.com/arcgis/rest/services/World_Street_Map/MapServer)

The screenshot displays the ArcGIS online interface for a specific map service. At the top, there's a navigation bar with links for ArcGIS, Pricing, Map, Scene, Help, and a sign-in button. Below the navigation is a search bar.

The main content area is titled "World Street Map (for Export)". It features a small thumbnail map showing a portion of the world with red outlines. To the right of the thumbnail is a detailed description of the layer, stating it presents highway-level data for the world and street-level data for many areas around the world. It mentions that the layer is designed to support export of basemap tiles for offline use and requires an ArcGIS Online Subscription. The description also notes the layer is a Tile Layer by Esri, created on Oct 15, 2013, updated on Aug 15, 2018, and has a view count of 39,772. There are two buttons at the bottom of this section: "Authoritative" and "Subscriber".

On the right side of the page, there are several interactive buttons: "Open in Map Viewer", "Open in Scene Viewer", and "Open in ArcGIS Desktop". Below these buttons is a "Details" section which includes the source as "Map Service", size as "1 kB", and a five-star rating. It also features social sharing icons for Facebook, Twitter, and LinkedIn.

The "Owner" section indicates the service is managed by Esri. The "Tags" section lists numerous keywords related to the map service, such as "World", "Global", "Europe", "North America", "United States", "Southern Africa", "Asia", "South America", "Australia", "streets", "street map", "tile package", "basemap", "highways", "roads", "transportation", "landmarks", "parks", "community", "community basemap", "map", "AFA250\_base", "current", "esr\_basemap", "general availability", and "export".

Figure 7: Basemap Source Description

**Hard Copy Record**

screenshots: arcmap map arcmap tools portal screenshots sql server mgt screen  
shots phone screenshots

**ArcGIS Server**

## Administrative Manual

### Annual Setup

A new dataset for forfeiture parcels must be created each year.  
The forfeiture information comes from BSA Forfeitures.net and the parcel geometry  
and other attributes comes from ACParcelsCombined.

To get the BSA Forfeiture data, create a table query for a certain year.

First, clear the features from the existing ForfeitureParcels  
dataset

- Use the Delete Feature Tools
- In the tool:
  - Select ACPub.DBO.ForfeitureParcels

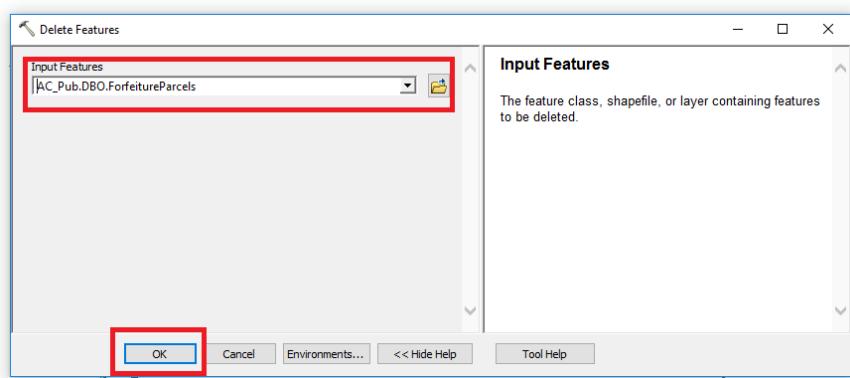


Figure 8: Delete Features

Press OK

---

## Add Query Layer

- In ArcMap ⇒ Open the New Query Layer Dialog
- File ⇒ Add Data ⇒ Add Query Layer
- Select your connection

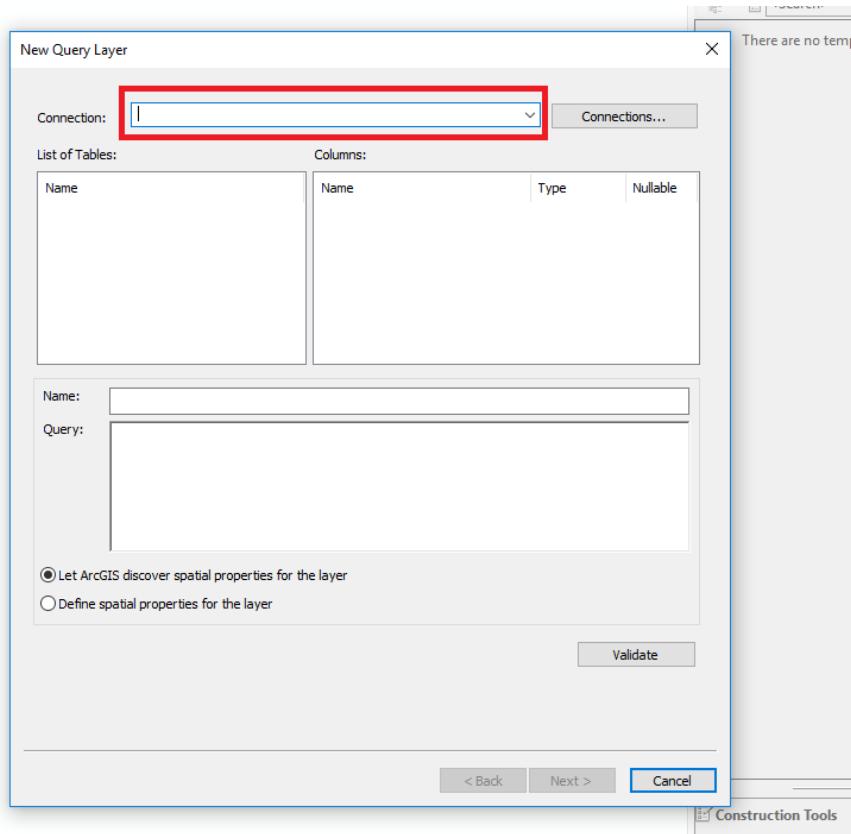


Figure 9: New Query Layer Dialog

### Query Text:

```
SELECT [parcelnumber] FROM [D005ALLEGAN].[dbo].[Forfeitures]
WHERE forf_year = 2019
```

### Details of the Query Layer

- Choose connection
- Name the query
- Enter SQL query

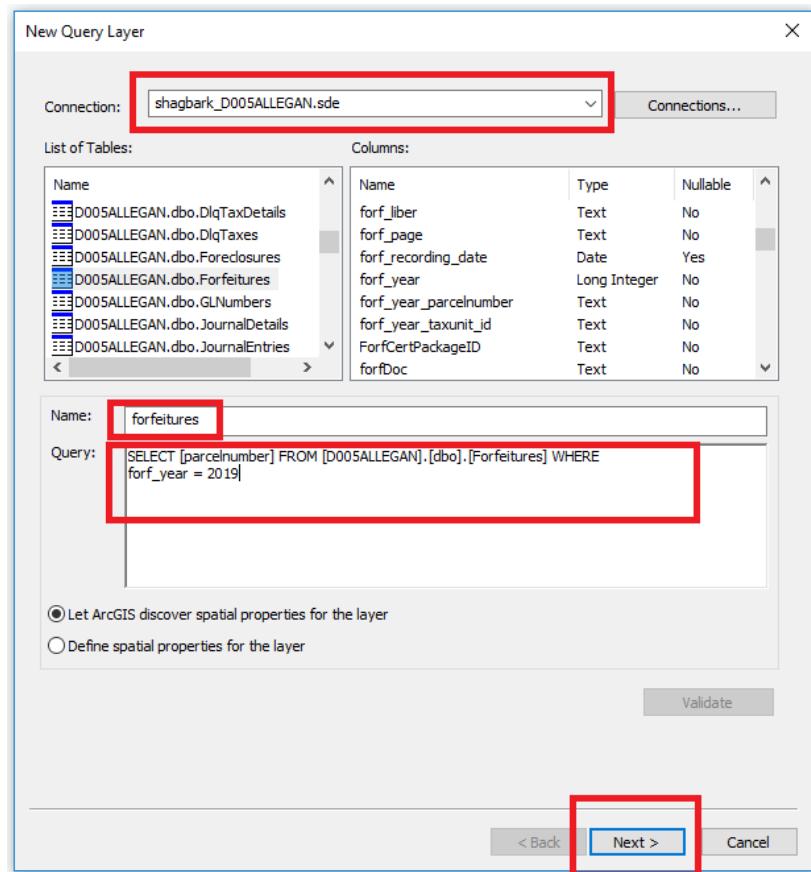


Figure 10: Forfeiture Query Layer Details

- Press Next

### Select a Unique Identifier

- Press Finish

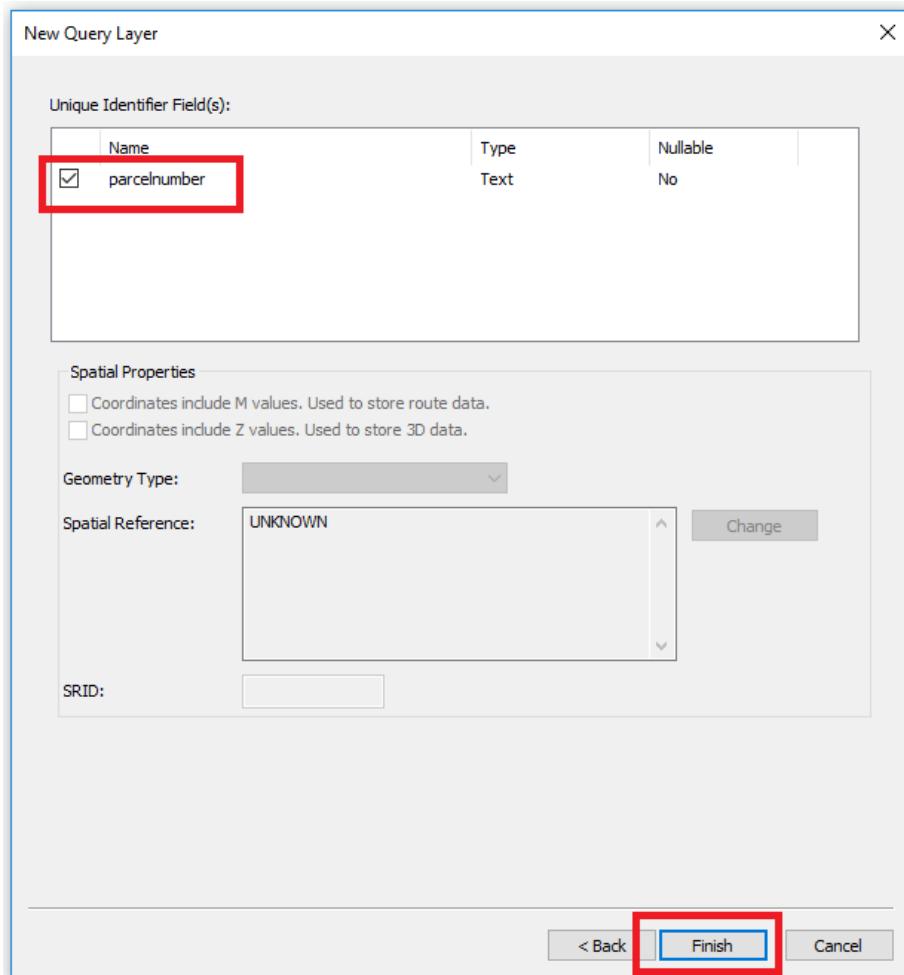


Figure 11: Query Layer Unique ID

Table is added to the map

The screenshot shows the ArcGIS Pro interface with two main windows: the Table of Contents and a table viewer.

**Table of Contents:** This window displays a hierarchical list of layers. Under the "Layers" section, there are three items: "dbo.DEFAULT (ac-intsql01)", "AC\_Pub.DBO.Treasurer", and "AC\_Pub.DBO.ForfeitureParcels". The "AC\_Pub.DBO.ForfeitureParcels" layer has a checked checkbox next to it. Below these, under a folder labeled "D005ALLEGAN", there is a table named "D005ALLEGAN.DBO.forfeitures". This table is highlighted with a red rectangular box.

**Table Viewer:** This window shows a detailed view of the "D005ALLEGAN.DBO.forfeitures" table. The table has two columns: "parcelNumber" and "ESRI\_OID". The data consists of 836 rows, each containing a unique parcel number and its corresponding ESRI OID. The first few rows are as follows:

parcelNumber	ESRI_OID
01-007-012-00	1
01-008-005-00	2
01-016-031-10	3
01-019-001-13	4
01-019-005-97	5
01-025-017-00	6
01-026-020-00	7
01-030-014-10	8
01-030-019-00	9
01-031-031-00	10
01-034-009-00	11
01-034-014-10	12
01-034-055-00	13
01-034-067-00	14
01-034-087-00	15
01-034-108-00	16
01-035-015-00	17
01-035-020-20	18
01-035-030-00	19
01-035-044-00	20
01-035-044-10	21
01-120-004-00	22
01-120-010-00	23
01-120-031-00	24
01-120-032-00	25
01-220-010-00	26
01-250-001-00	27
01-300-004-00	28
01-320-020-00	29
01-320-021-00	30
01-370-016-00	31
01-740-009-00	32
02-001-012-31	33
02-003-018-00	34
02-005-004-20	35
02-007-025-00	36

At the bottom of the table viewer, there are navigation buttons (left, right, first, last) and a status bar indicating "(0 out of 836 Selected)".

Figure 12: Forfeiture Table Added

---

### Add Parcels Layer to the map

Add ACParcelsCombined to the map to provide parcel geometry and attributes

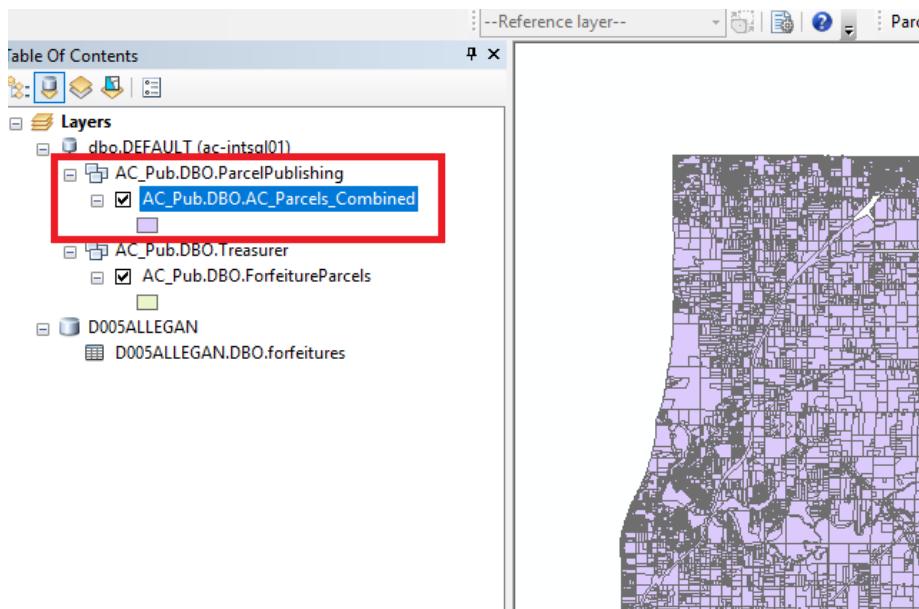


Figure 13: Parcels Layer Added

### Create Join

Create new join to ACParcelsCombined of forfeitures based on parcel numbers

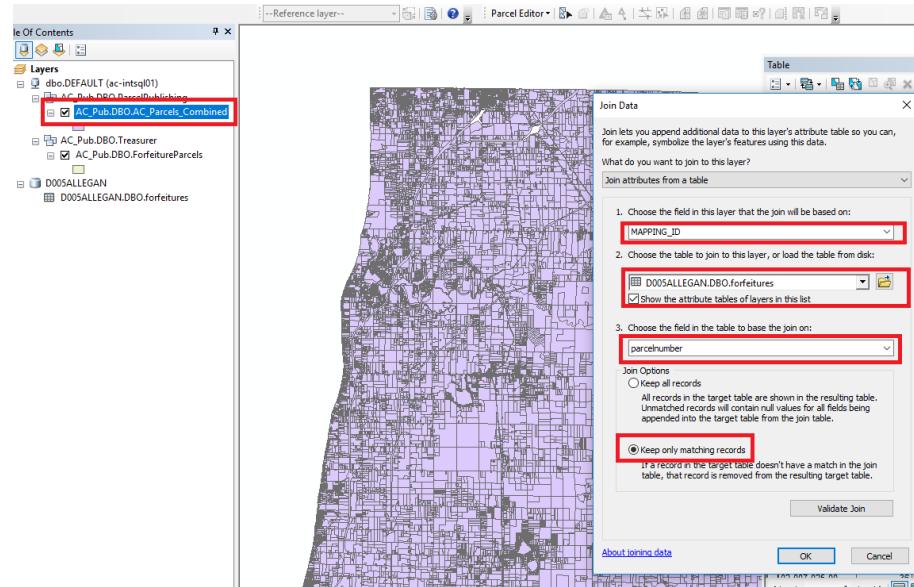


Figure 14: Join Parcels

## Export Joined Features to a temp location

- Right click → on joined feature class in TOC and choose export

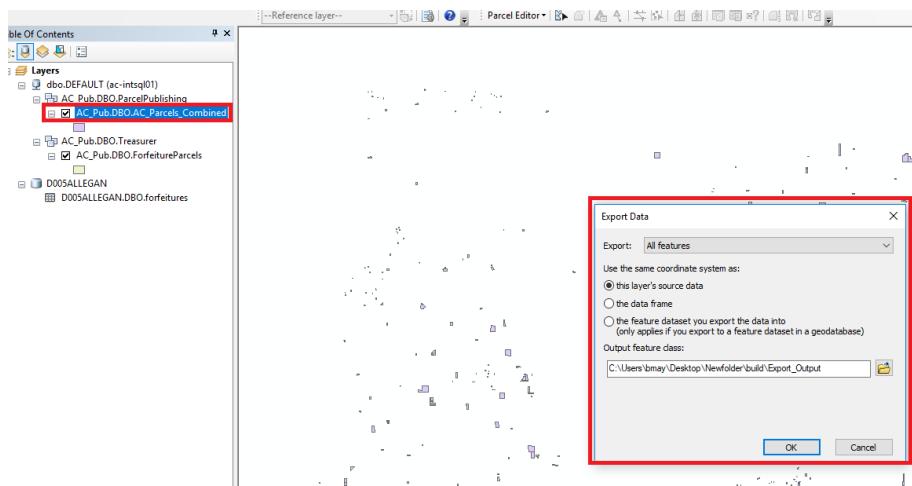


Figure 15: Export Joined Features

- choose location and press OK

## Load data from temp location to forfeitureParcels

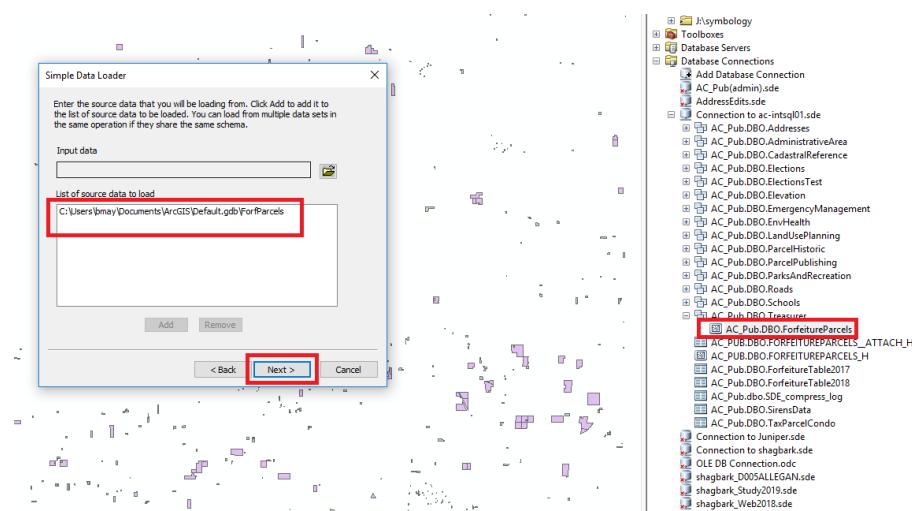


Figure 16: Load Data 1

push next

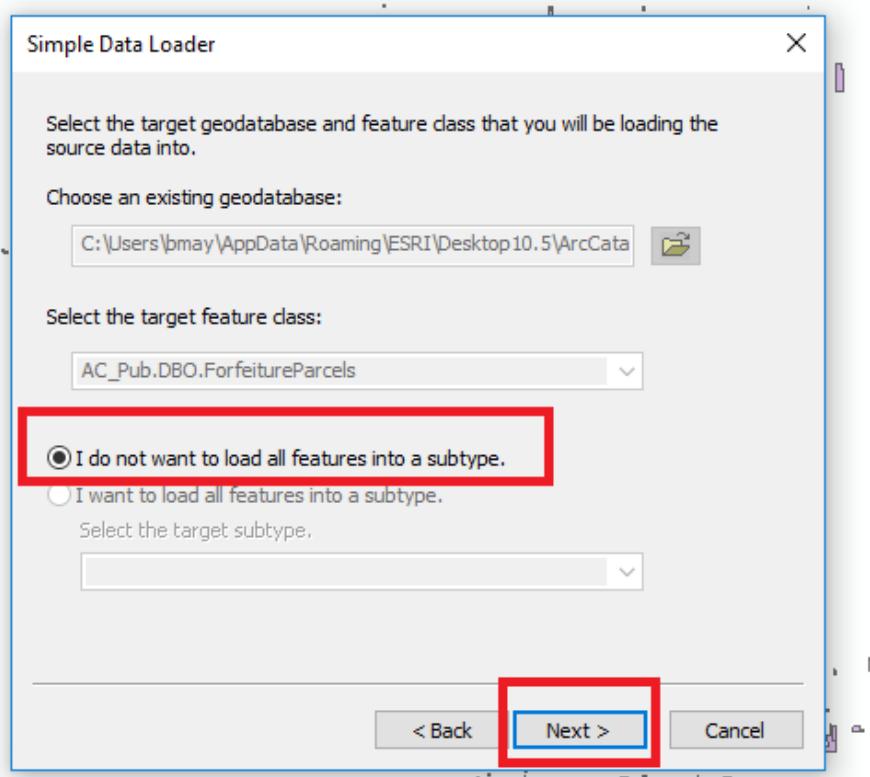


Figure 17: Load Data 2

## Match these fields

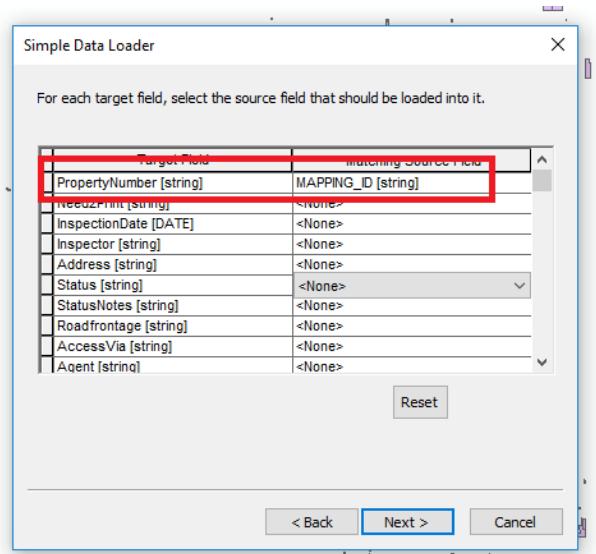


Figure 18: Match Fields 1

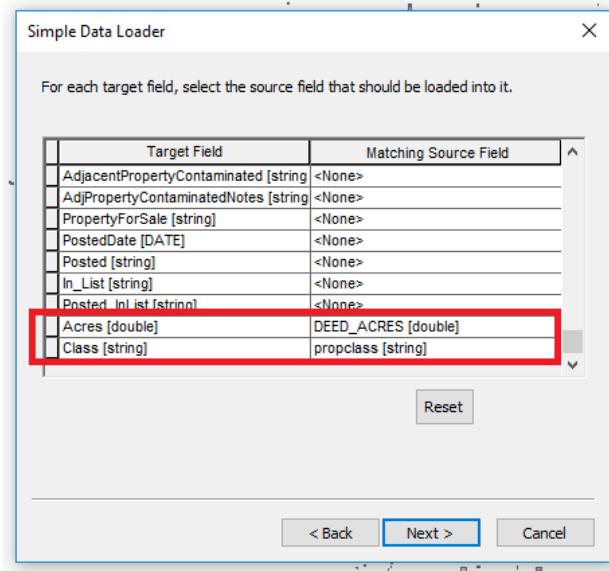


Figure 19: Match Fields 2

---

**push next**

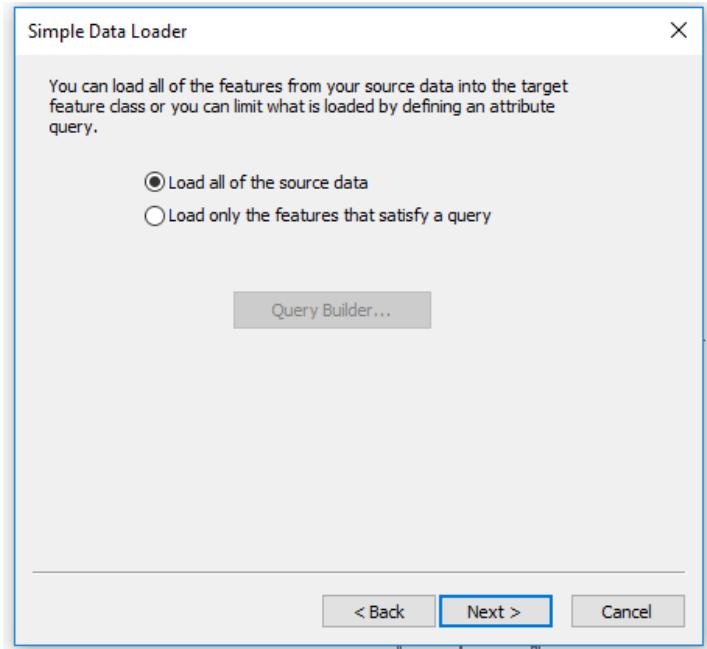


Figure 20: Load Data 3

**Push Finish**

---

## Data Setup

Register as versioned and Add Global IDs

Right Click ⇒ Manage ⇒ Register as Versioned

and

Right Click ⇒ Manage ⇒ Add Global IDs

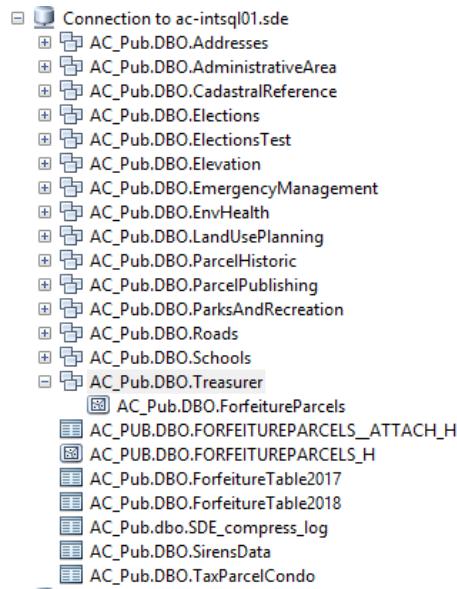


Figure 21: Setup Data

## Create Attachments

Right Click ⇒ Manage ⇒ Add Attachments

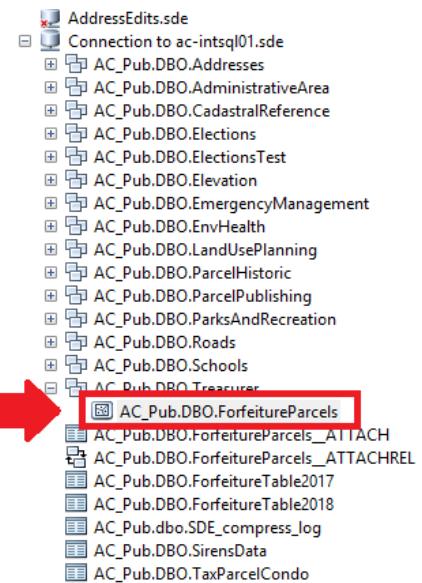


Figure 22: Create Attachments

## Setup Users in ArcGIS

Users that will run Pre and Post processing scripts must be created and given privileges on ACpub Treasurer Feature Data Set.

For any new users of the geoprocessing tools, use the create Database User tool or

In Catalog ⇒ Right click on ACpub ⇒ Administration ⇒ Add User

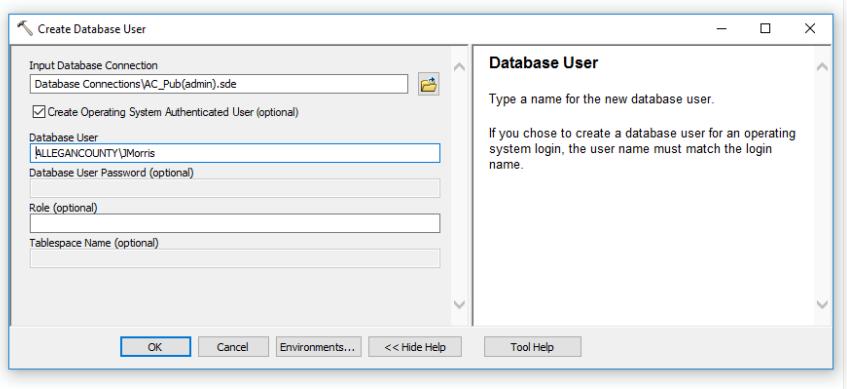


Figure 23: Add Db User

## Add New User to Feature Dataset

In Catalog, ⇒ right click on Treasurer Feature Data Set ⇒ Manage ⇒ Privileges  
⇒ Add ⇒ Type new user ⇒ ok

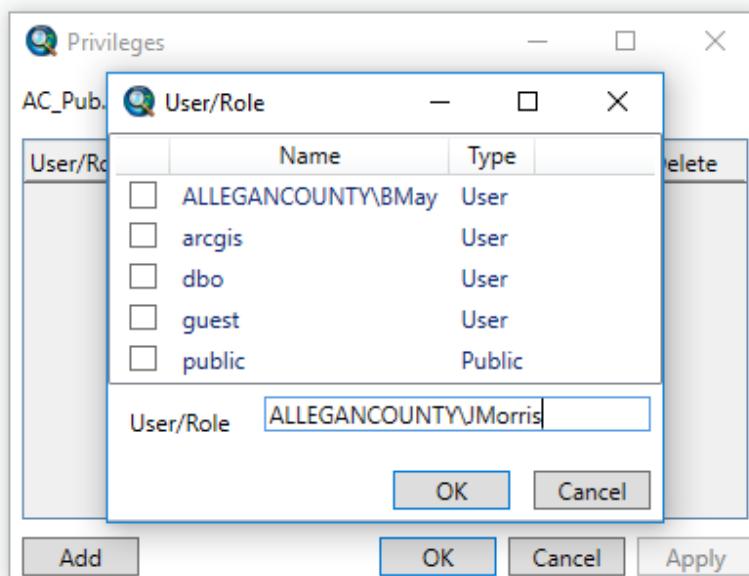


Figure 24: Add Feature Dataset User

## Extend Privileges for New User

In Catalog ⇒ right click on Treasurer FDS ⇒ Manage ⇒ Privileges ⇒ check boxes

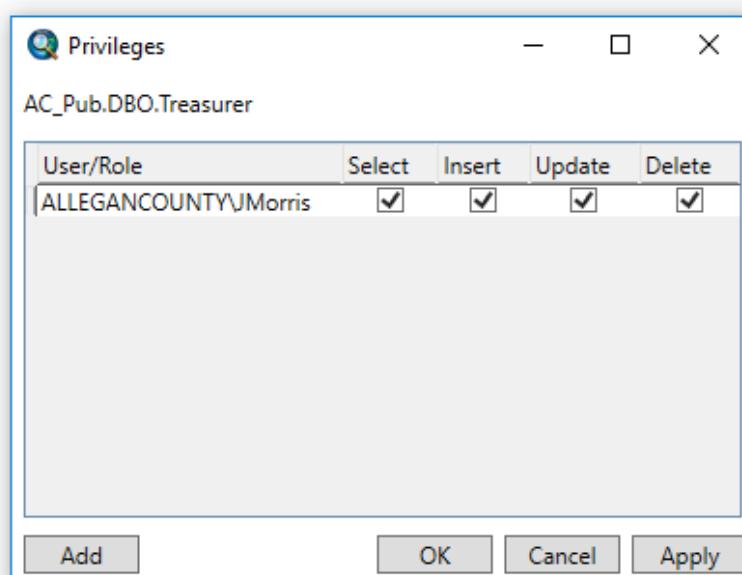


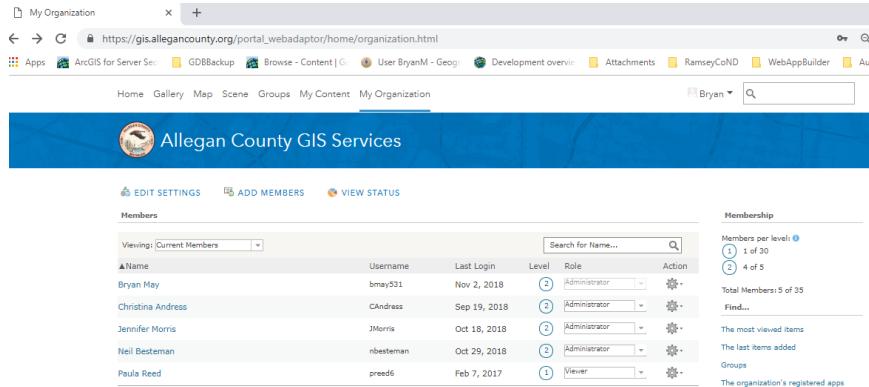
Figure 25: Extend Feature Dataset Privileges

---

## Setup Users in Portal for ArcGIS

Users that will use the Collector for ArcGIS must have profiles added to and managed in the Allegan County GIS Portal site.

In Portal go to My Organization



The screenshot shows the 'My Organization' page of the Allegan County GIS Services portal. At the top, there's a navigation bar with links for Home, Gallery, Map, Scene, Groups, My Content, and My Organization. Below the navigation is a search bar with the name 'Bryan' and a search icon. The main content area is titled 'Allegan County GIS Services'. It features three tabs: 'EDIT SETTINGS', 'ADD MEMBERS', and 'VIEW STATUS'. The 'ADD MEMBERS' tab is currently selected. On the left, there's a 'Members' section with a table showing current members. The table columns are Name, Username, Last Login, Level, Role, and Action. The data in the table is as follows:

Name	Username	Last Login	Level	Role	Action
Bryan May	bmay531	Nov 2, 2018	1	Administrator	[Edit]
Christina Andress	cAndress	Sep 19, 2018	2	Administrator	[Edit]
Jennifer Morris	JMorris	Oct 18, 2018	2	Administrator	[Edit]
Neil Besteman	nbesteman	Oct 29, 2018	2	Administrator	[Edit]
Paula Reed	preed6	Feb 7, 2017	1	Viewer	[Edit]

To the right of the table, there's a 'Membership' section with a 'Members per level' summary. It shows 1 of 30 users at level 1 and 4 of 5 users at level 2. Below this, there are links for 'Total Members: 5 of 35', 'Find...', 'The most viewed items', 'The last items added', 'Groups', and 'The organization's registered apps'.

Figure 26: Portal Add User 1

## Add Members to Portal

Push add members ⇒ built in member

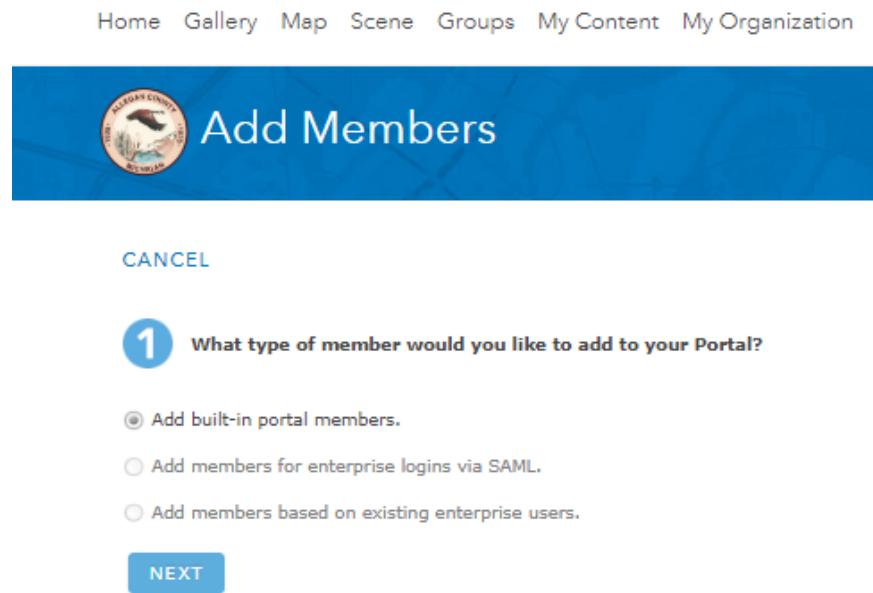


Figure 27: Portal Add User 2

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## Enter required info



The screenshot shows a web-based application titled "Add Members". At the top left is the Allegan County GIS Services logo. Below the title, there is a blue header bar with the word "CANCEL" in white text. The main content area has a white background and contains the following elements:

- A large blue circular icon with the number "2" inside.
- A bolded instruction: "Create new Allegan County GIS Services logins one at a time or in batch from a file."
- A note: "Select any role for the member to be a part of. You must inform the member of their user name and password. If you do not have an email address for a particular user, use the administrator's email address."
- A red error message: "Password may not be less than 8 characters."
- Two tabs: "One at a time" (selected) and "From a file".
- Input fields for "Email", "First Name", "Last Name", "Username", and "Password".
- A "Level" section with two radio buttons labeled "1" and "2", where "2" is selected.
- A "Role" dropdown menu set to "Publisher".
- Buttons at the bottom: "BACK", "ADD ANOTHER" (green), and "REVIEW ADDITIONS" (blue).

Figure 28: Portal Add User 3

---

## Manage Treasurer Group

In Portal ⇒ Go to groups ⇒ Invite new user to the group

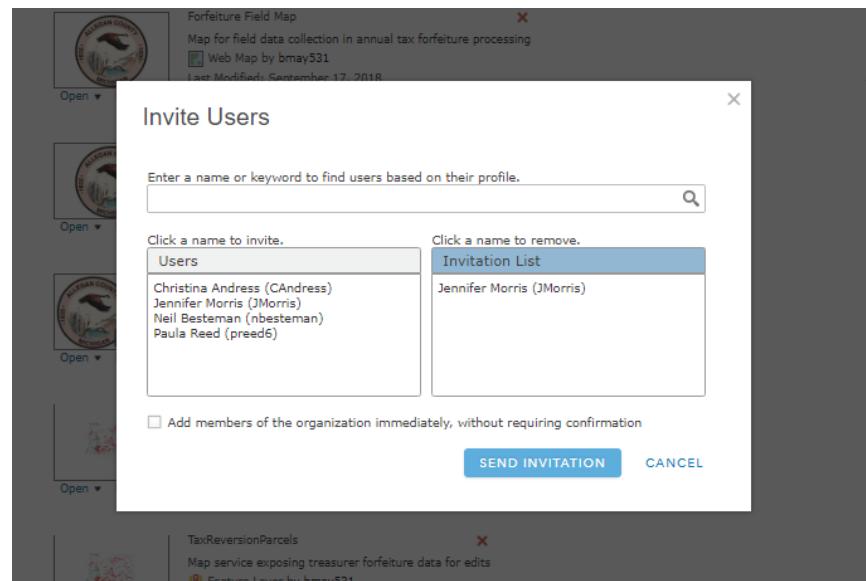


Figure 29: Portal Add User 4

## Share Content To The Group

Any content used by the group needs to be shared to the group

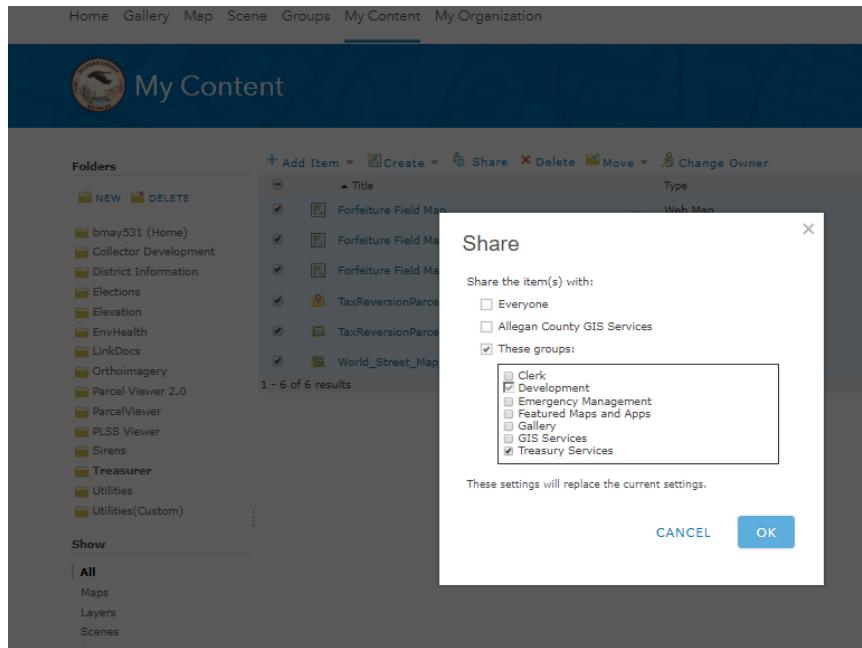


Figure 30: Portal AddUser 5

## Schema Change Procedure

## Form Edits Procedure

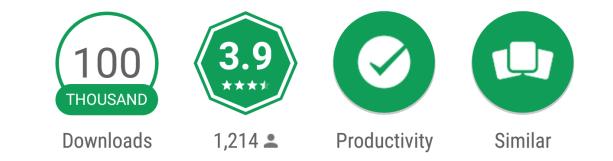
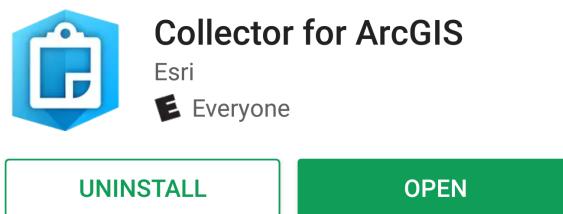
## User Manual

### Collection Device Setup

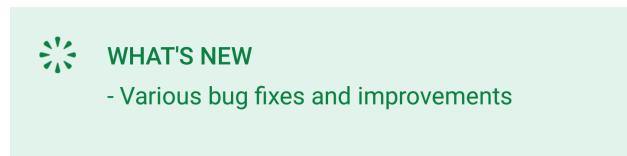
#### Collector Application Setup Details

##### Install Collector for ArcGIS

- Available from the Google Play Store



Accurate Data Collection Made Easy



[READ MORE](#)

Figure 31: Download the App

---

## Configure Collector

for Organization Website, Type:

{\textcolor{HeaderOrangeC}{Header}}  
[https://gis.allegancounty.org/portal\\_webadaptor](https://gis.allegancounty.org/portal_webadaptor)

then:

Press Continue

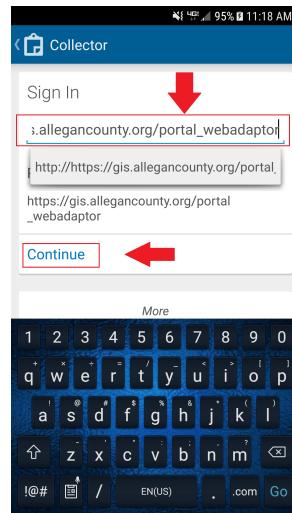


Figure 32: Collector Connection

Enter Credentials

then:

Press SIGN IN

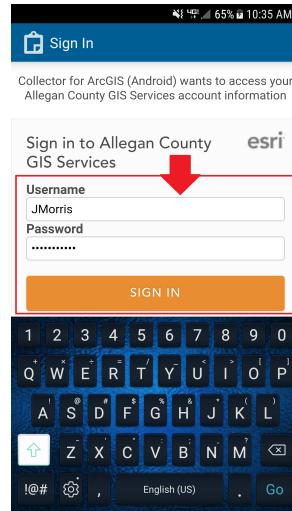


Figure 33: Enter Credentials

### Download the Forfeiture Field Map

There are 3 different versions of the map

- Forfeiture Field Map
- Forfeiture Field Map For Photos
- Forfeiture Field Map For Attributes

The Download option indicates it is not on the device but is available for offline use

Choose a Map

Press Download

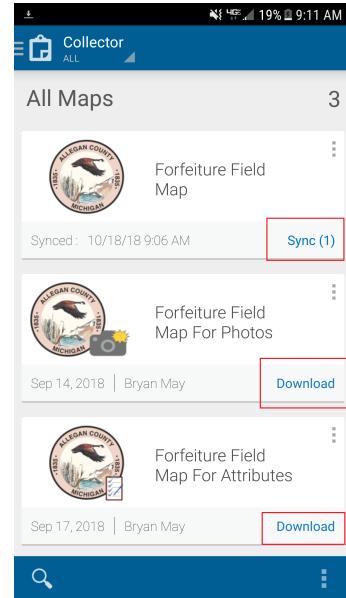


Figure 34: Collector Maps Menu

Specify work area

and press

map detail

Note that a larger area takes longer to download but the basemap only needs to be downloaded once

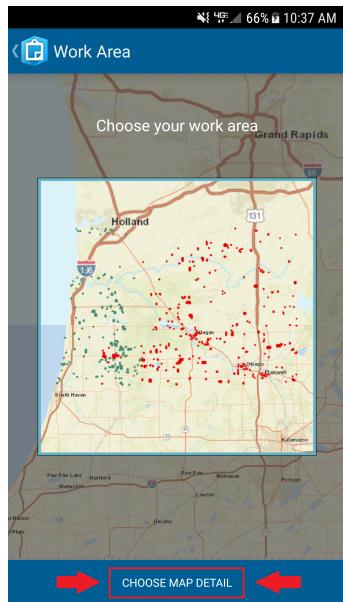


Figure 35: Choose Work Area (large)

### Choose Map Detail

Zoom into the level of detail desired.

Press Download

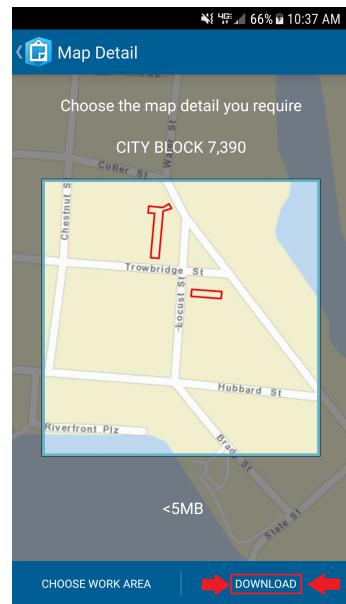


Figure 36: Choose Map Detail

This area is ready for field data collection.



Figure 37: Map on Device

## Open Camera Application Setup Details

### Install Open Camera

- Available from the Google Play Store



Figure 38: Open Camera from Google Play Store

### Configure Open Camera

In the Open Camera Application:

Press the gear shaped Settings button to go into the settings menu

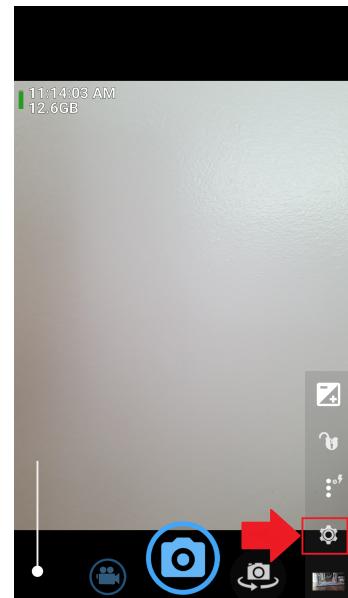


Figure 39: Find Settings Menu

---

Press the Photo Settings button

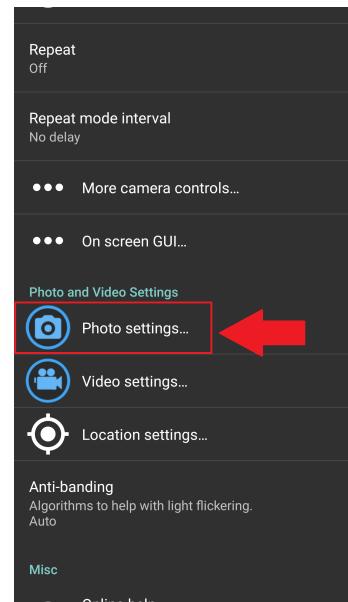
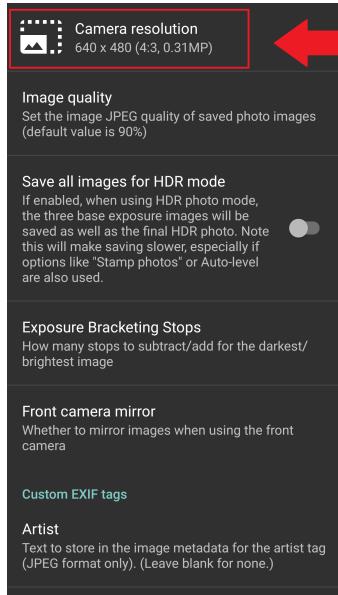


Figure 40: Setting Screen

---

## Set Photo Resolution

In photo settings:



Press the Camera resolution button

Figure 41: Photo Settings Menu

Select **640 x 480**

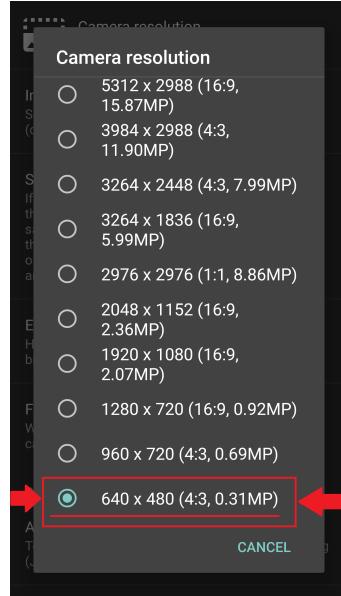


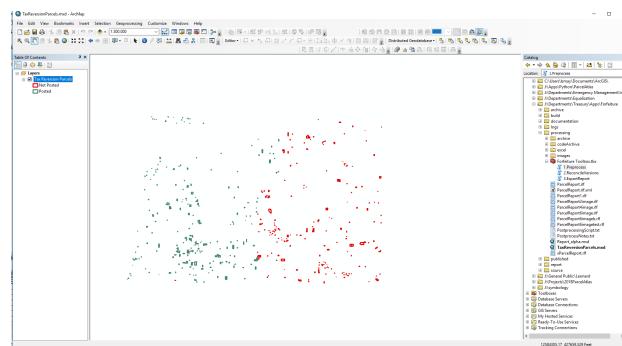
Figure 42: Camera Resolution Setting

### Daily Preprocessing Routine

**Execute Preprocessing Script** A tool in ArcGIS that:

- Exports current forfeiture list from BSA
- Updates webmap layers with results from BSA export

In Catalog:



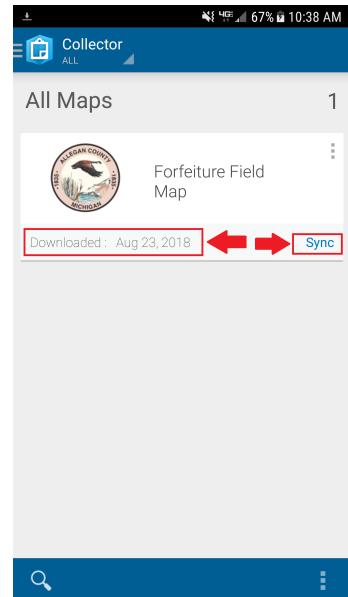
Open the toolbox

Figure 43: Processing Tools

Open tool 1

### Synchronize the Forfeiture Field Map

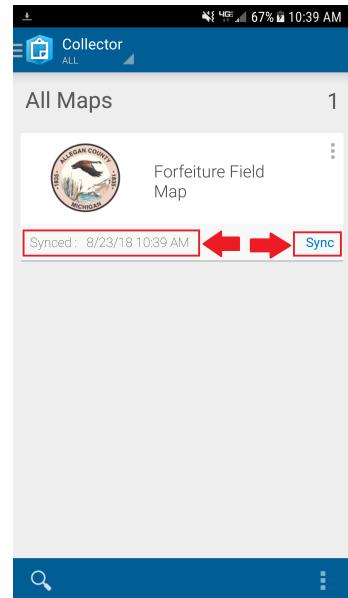
Note the date and time:



Press Sync

Figure 44: Map Downloaded

Note the date and time:



Map is synchronized

Figure 45: Map Synchronized

**Forfeiture Data Collection**

**Forfeiture Parcels Data Details** Attributes are of four entry types:

- prefilled
- autofill
- dropdown
- text box

For each site visited, select the desired parcel, push the edit button and collect attributes.

**Device 1 Field Operation**

Select a parcel



Figure 46: Select Parcel

Push the edit button

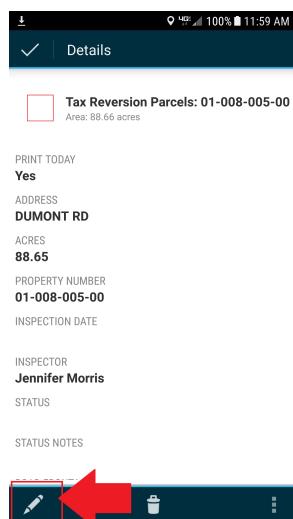


Figure 47: Parcel Details

**Device 1 Field Operation Cont.** Select Yes for Print Today

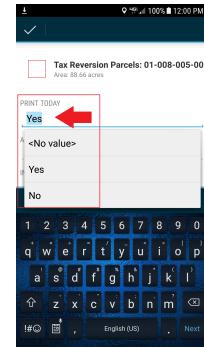


Figure 48: Print Today Yes or No

Select Use Current or enter any date

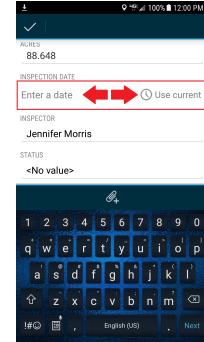


Figure 49: Enter Date

Select Inspector From Dropdown

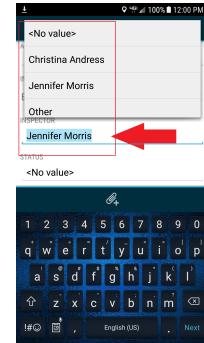


Figure 50: Select Inspector

**Device 1 Field Operation Cont.**  
Select Occupied or Not Occupied

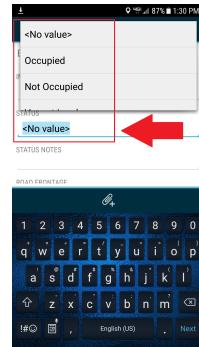


Figure 51: Status

Enter status notes up to 120 characters

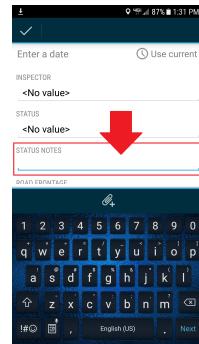


Figure 52: Status Notes

Select Yes or No for Road Frontage

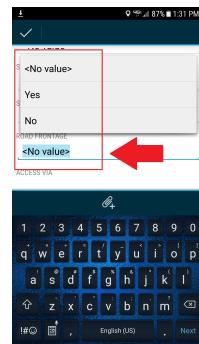


Figure 53: Road Frontage

**Device 1 Field Operation Cont.**  
Enter road used for access

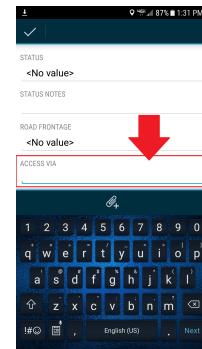


Figure 54: Access Via

## Enter Agent Name

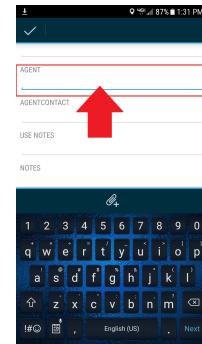


Figure 55: Agent

## Enter Agent Contact Info

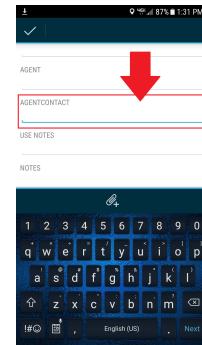


Figure 56: Agent Contact

**Device 1 Field Operation Cont.**  
Enter Use Notes up to 120 characters

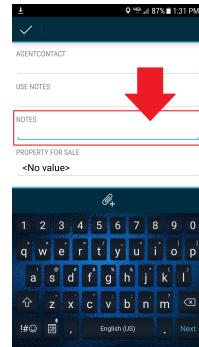


Figure 57: Use Notes

Enter Notes up to 120 characters

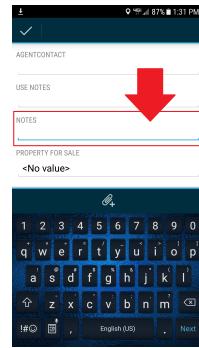


Figure 58: Notes

Enter property for sale yes or no

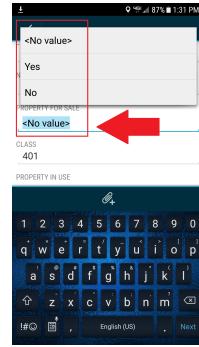


Figure 59: Property for Sale

**Device 1 Field Operation Cont.**  
**Property in Use Yes or No**

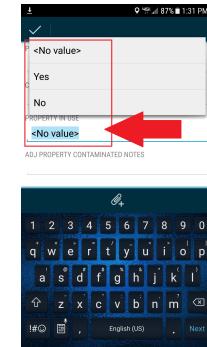


Figure 60: Property in Use

**Placeholder**

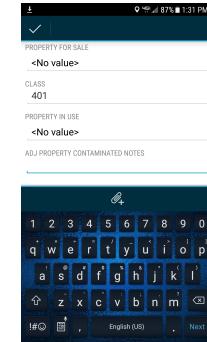


Figure 61: Placeholder

**prefilled**

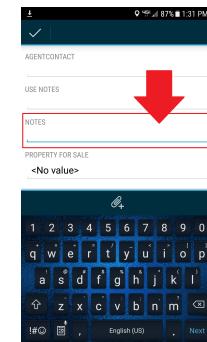


Figure 62: Property Contaminated

**Device 1 Field Operation Cont.**  
Enter notes up to 120 characters

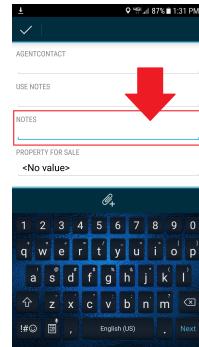
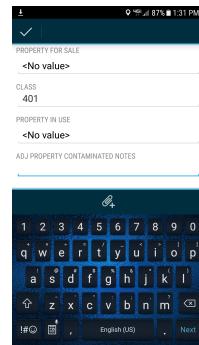


Figure 63: Notes up to 120 characters

Adjacent Property Contaminated  
prefilled



Property Contaminated notes pre-filled

Figure 64: Adjacent Property Contaminated

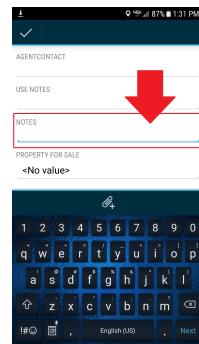


Figure 65: Property Contaminated

Device 1 Field Operation Cont.  
Property Maintained Yes or No

PROPERTY MAINTAINED  
<No value>  
Yes  
No

Figure 66: Property Maintained

Picture Comments up to 120 characters

PICTURE COMMENTS  
<No value>

Figure 67: Picture Comments

Placeholder

NOTES  
<No value>

Figure 68: Placeholder

## Device 2 Field Operation

Use photos taken with the Open Camera Application.

Select a parcel from the map



Figure 69: Select Parcel

Push Attachment Button

Select Gallery

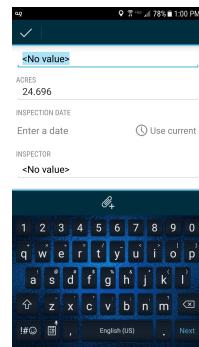


Figure 70: Push Attachment Button

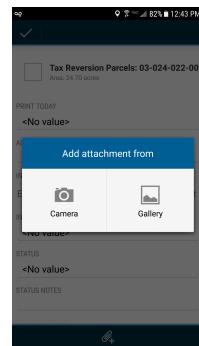


Figure 71: Add Attachment From Gallery

**Device 2 Field Operation Cont.**  
 Navigate to the Open Camera Folder

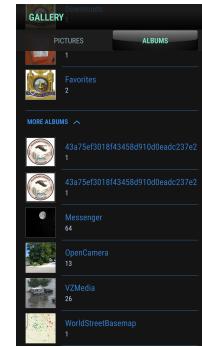


Figure 72: Open Camera Folder

Select the appropriate image

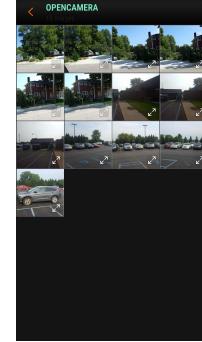


Figure 73: In the Open Camera Folder

Press the check button to save the image to the parcel

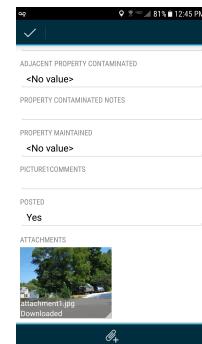


Figure 74: Image in the App

## Daily Postprocessing Routine

Back at the office

### Synchronize Webmap

In Collector for ArcGIS, push the sync button on the Forfeiture Field Map

### Execute Postprocessing Script

The Postprocessing Script is A tool in ArcGIS that:  
Reconciles geodatabase versions

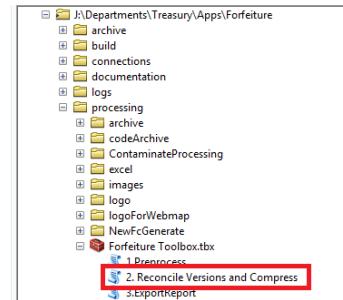


Figure 75: Reconcile Versions and Compress Tool

Execute the Reconcile Versions and Compress Tool

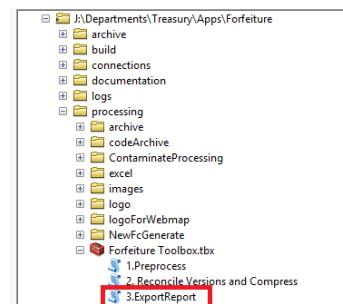


Figure 76: Export Report Tool

Generates forms for each site visited

Execute the Export Report Tool

- Reconciles geodatabase versions
  - Execute the Reconcile Versions and Compress Tool

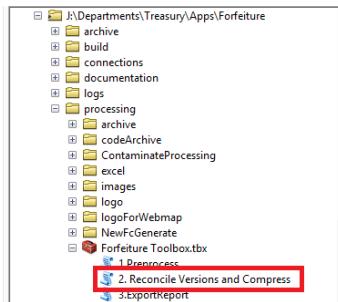


Figure 77: Reconcile Versions and Compress Tool

- Generates forms for each site visited
  - Execute the Export Report Tool

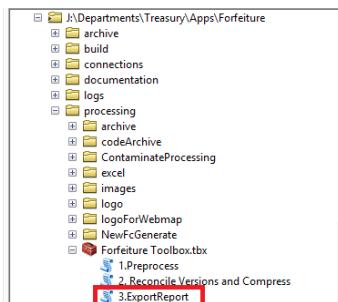


Figure 78: Export Report Tool

## Software

### ESRI Licensed Products

**ArcDesktop** Users of this application need a license to ArcGIS Standard level.

**Enterprise ArcGIS Deployment** This app uses ArcGIS Server and ArcGIS Portal.

**Collector for ArcGIS** Developed and tested on Android(7.0). Collector is available at the Google Play Store.

### Other Software

#### Open Camera for Android



Figure 79: Open Camera from Google Play Store