

## Michael Mannion

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**From:** Jarret Dennis <Jarret.Dennis@nwfwater.com>  
**Sent:** Thursday, February 28, 2019 12:02 PM  
**To:** Michael Mannion; Yamila Posey  
**Cc:** Danny Layfield  
**Subject:** RE: Problems copying data

Michael,

We like the suggestion to keep the good dates for the 3 columns, but convert all of the “old/bad” dates to NULL. That way we can bring up this layer in ArcGIS.

I do not know what the minimum date supported by ArcGIS is, but Danny said he was talking to Robert about it and he made it sound like it was not a consistent date.

We think you can consider any date before 1973 to be old and convert it to NULL. The hope is that then we would then have a clean data layer that can be used in ArcGIS, which is the ultimate goal.

Also, I too tried filtering the data layer in ArcGIS and was never able to successfully export it. This is a fix that needs to be done on the database side eventually, but if we can get a clean layer in ArcGIS that has the old dates converted to NULL, that would give us something to work with while they are cleaning things up on the St Johns side.

Thanks,  
Jarret

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**From:** Michael Mannion [mailto:michael.mannion@manniongeo.com]  
**Sent:** Thursday, February 28, 2019 11:21 AM  
**To:** Yamila Posey; Jarret Dennis  
**Subject:** RE: Problems copying data

It looks like we have some bad ISSUE\_DATE dates as well (the first four digits are the year):

PROJECT_NUMBER	EXPIRATION_DATE	ISSUE_DATE	REVIEW_DATE
PDEX-033-10339-1		0008-01-24 00:00:00	
PDEX-033-10339-1		0008-01-24 00:00:00	
PDEX-113-10558-1		0009-02-18 00:00:00	
PDEX-113-10558-1		0009-02-18 00:00:00	

This feature class has three DATE columns, as shown above. My question is:

- Should I also set EXPIRATION\_DATE and/or ISSUE\_DATE to NULL for now, too, like we did for REVIEW\_DATE?

Alternatively, we could keep the good values for all three columns, but exclude ones that are too old. I’m not exactly sure how old is “too old” according to ArcGIS, but I can figure that out. (Jarret, do you happen to know the minimum supported date value in ArcGIS?)

FWIW, I’ve tried various ways of filtering the problematic rows from within ArcGIS so we can get a clean export, but they’ve all failed. So, we need to implement a fix at the database level.

-Michael

**Michael Mannion**

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**From:** Michael Mannion**Sent:** Wednesday, February 27, 2019 5:03 PM**To:** 'Yamila Posey' <Yamila.Posey@nwfwater.com>; Jarret Dennis <Jarret.Dennis@nwfwater.com>**Subject:** RE: Problems copying data

Team,

I updated the refresh procedure to set all REVIEW\_DATE values to NULL and re-ran the job. That change worked as-expected, but the export still fails. I'm continuing testing to see what else is causing the error.

-Michael

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**From:** Yamila Posey <[Yamila.Posey@nwfwater.com](mailto:Yamila.Posey@nwfwater.com)>**Sent:** Wednesday, February 27, 2019 11:01 AM**To:** Michael Mannion <[michael.mannion@manniongeo.com](mailto:michael.mannion@manniongeo.com)>**Cc:** Jarret Dennis <[Jarret.Dennis@nwfwater.com](mailto:Jarret.Dennis@nwfwater.com)>**Subject:** RE: Problems copying data

Hi Michael,

Looking further into this so that I can report it to SJR, I found that the field you are using is revw\_due\_dt from the table reguser.cmplnc\_item\_et. Performing a query, I found that there are 1262 records with a date <1900. I don't remember the requirements we asked you for but I'm wondering if you should be using the field, revw\_cmplt\_dt instead. At this point neither is a good option as the revw\_cmplt\_dt has 907 erroneous records. I will report this to SJR for them to fix, but I don't know how long it will take. In the meantime can you comment the date out of your query so that we can export the data?

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**From:** Jarret Dennis**Sent:** Wednesday, February 27, 2019 9:16 AM**To:** Yamila Posey <[Yamila.Posey@nwfwater.com](mailto:Yamila.Posey@nwfwater.com)>**Subject:** FW: Problems copying data

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**From:** Michael Mannion [<mailto:michael.mannion@manniongeo.com>]**Sent:** Thursday, February 21, 2019 1:23 PM**To:** Jarret Dennis**Subject:** RE: Problems copying data

Jarret,

I found a bad REVIEW\_DATE value (November 3, 0001) for the row with the following other values:

objectid	265818828
shape	(588903.5503000002, 3357654.791200001)
site_id	24070.0
permit_number	17753.0
project_number	IND-131-17753-1
permit_type	IND
county_fips	131
official_permit_number	17753
sequence_number	1
application_status	Compliance
rule_code	62-330
rule_description	ERP Individual
project_name	South Walton Elementary
project_county	Walton
site_location	South Walton Elementary School
party_role	Environmental Consultant
party_company_name	Cypress Environmental
party_first_name	Bethany
party_last_name	Womack
expiration_date	2022-01-20 00:00:00
issue_date	2017-01-20 00:00:00
legacy_permit_number	None
item_number	68437.0
item_type	Submittal
item_stage	Pending - Submittal

Note two things:

- You won't be able to browse this record in ArcGIS; you'll need to use an Oracle-level tool to browse the table in our database and/or eReg to view the source data in the SJR-hosted database. Most ArcGIS tools I've tried either fail silently or skip this record, so it's not necessarily obvious that something is broken.
- The OBJECTID value listed above will change every 6 hours, as the table refreshes. Use the other values to identify the row of interest.

This date value is valid in the database, but apparently disallowed in ArcGIS. I took a quick glance online, but didn't find a documentation page that listed the range of dates supported by ArcGIS. Regardless, this site certainly wasn't created in the year 0001, so I think the best course of action is to fix the source data in eReg.

As for a permanent fix, I'd submit that the database hosting this data, or application(s) creating the data, should be validating these date values. If it's possible to enhance the data model / eReg / etc. to enforce valid dates going forward, that would be best. Otherwise, we can add logic to our refresh script to exclude values that we consider too old (or too far in the future).

I'll be available for most of the rest of the day; if it would be helpful to review this together on a screenshare, or if you have follow-up questions, please let me know.

Thanks,

-Michael

**Michael Mannion**

**From:** Jarret Dennis <[Jarret.Dennis@nwfwater.com](mailto:Jarret.Dennis@nwfwater.com)>  
**Sent:** Thursday, February 21, 2019 10:39 AM  
**To:** Michael Mannion <[michael.mannion@manniongeo.com](mailto:michael.mannion@manniongeo.com)>  
**Subject:** RE: Problems copying data

Thanks

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**From:** Michael Mannion [<mailto:michael.mannion@manniongeo.com>]  
**Sent:** Thursday, February 21, 2019 10:38 AM  
**To:** Jarret Dennis  
**Subject:** RE: Problems copying data

I'm on it; I'll let you know what I find as soon as I have something to report. -M

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**From:** Jarret Dennis <[Jarret.Dennis@nwfwater.com](mailto:Jarret.Dennis@nwfwater.com)>  
**Sent:** Thursday, February 21, 2019 9:59 AM  
**To:** Michael Mannion <[michael.mannion@manniongeo.com](mailto:michael.mannion@manniongeo.com)>  
**Subject:** Problems copying data

Hi Michael,

We are having trouble copying the DATABASES\_ERP\_SITE layer.  
When I view it in ArcMap it says there are 916710 records, but then when I go to export the whole layer only 520 records are copied.  
Would you be able to help us look into this to see what is going on.

Thanks,  
Jarret