Web Map Tables Architecture

Overview:

Equis\_reporting database web map tables are consumed by Geocortex web map viewer. Data are moved from the EQuIS database to EQuIS\_Reporting during daily jobs so that data provided in the web map is near real-time.

For PGE, the data include a permission\_type\_code set in equis.dt\_hai\_task\_permission\_code. The permission code is used in Geocortex to toggle viewer permission so only certain data are available.

Workflow:

1. Data Queried from EQuIS via the function **fn\_HAI\_EQuIS\_Results\_v3**. This function preprocessed the data including unit conversion, applying qualifiers, selection the appropriate reporting unit, selection the sample matrix and determining which x-y coordinate projection code to use.
2. **fn\_HAI\_EQuIS\_Results\_v3** is called by **sp\_CreateWebMapDataTables** in EQuIS\_Reporting. **sp\_CreateWebMapDataTables** is executed in a daily jobfor each individual facility presenting real-time data**.**Web map data tables are stored in EQuIS\_Reporting by schema. Schema names represent the EQuIS Facility code.   
   **sp\_CreateWebMapDataTables** also depends on a static sample location table in EQuIS\_Reporting and the table tbl\_custom\_tables that stores TSQL needed to create each of the reporting tables. When called the facility\_id, schema name, coord\_zone, SRID and sample table name are passed as arguments. This sp destroys the existing reporting tables and recreates them in sequence by matrix as defined in the tbl\_custom\_tables. When the matrix tables are done the script creates one more table by combining all the matrix table into one all\_results\_table. Finally, any custom tables such as the PGE BaP table are created from scripts stored in tbl\_custom\_tables.
3. As each table is created the number total records, plus subtotals for each permission code are inserted into equis\_reporting.ETL\_log, plus a note whether the table was completed or failed. The use of these records is described below.
4. Once all the report tables are completed the script **sp\_CreateWebMapDataTables** applies geospatial data types to each record for consumption in the web map viewer. The geospatial coords are created throught the SRID, coord zone type, the x and y coordinates
5. Query from Enterprise **sp\_hai\_get\_webmap\_etl\_log**  presents data. Set up as a EIA notice to Dariush and Dan.
6. **sp\_hai\_pge\_web\_map\_changes** shows the change in records added from the beginning of one date period to another for documenting records available to EA.