Considerations Job Sheet

Items to Consider for River Monitor Configuration

- Group/Location Tree Appearance
- Columns to Display
- Display Menu Options to Change Various Time Periods
- Sort Options
- Group and Location Ordinals

1. **Group / Location Tree Appearance**
   a. Decide which HSA's to expand at launch
   b. Decide which HSA's to populate (toggle ON) at launch
   c. Decide which Groups under each HSA to expand and/or populate at launch
   d. Once you are happy with the preferred HSA / Group appearance for the "standard office setting" display, select File > Save Office Settings
      i. This updates **RiverMonitorSettings.txt**
      ii. If you are testing, select **Save Custom Settings** and create another filename to save
      iii. Once done testing, choose **Save Office Settings** to override **RiverMonitorSettings.txt**

2. **Columns to Display**
   a. The order of columns displayed is altered using **Display** > **Select Columns**
   b. This GUI shows **Allowed** items on the left and **Selected** items on the right
   c. Highlight any Selected item and use the up / down arrows to move that column left or right in the table, or select Remove to remove it from the table
   d. While testing, I added **Location Ordinal**, for example, then removed it when I was satisfied with my display before **Save Office Settings**
   e. Consider adding **HSA**, so staff KNOWS which HSA "owns" the station
   f. You may want more items than you can see at one time, so you need to train the staff to use the **horizontal scroll** to see some key info (expiration times, etc.), and decide where to put the **Threat** column, etc.
   g. Look through all the Allowed columns to make sure you have a useful list, but avoid overkill
   h. Once all desired columns are in the table, you need to choose your **Sort** order
   i. This may take trial and error (e.g., choosing a 3rd sort, then the 2nd, and finally the 1st sort to get the sorts and data in correct order)
   j. Once happy with a test file, choose Save Office Settings again

3. **Display Menu Options to Change Various Time Periods**
   a. Think about how far back or forward you wish to see Observed and Forecast Data
   b. Go down the Display menu and make any changes you desire through the GUIs that open for the options
   c. You may want to write down the original settings in case you want to go back to them (or just save a copy of RiverMonitorSettings.txt someplace as a backup copy – the values get stored in that file)
   d. See **Display Settings Table** (at the end of this Job Sheet) for the description of each setting (# hours to look BACK, etc.)
   e. Make these changes to a Custom Settings file for testing
   f. After you are happy with the results, Save Office Settings

4. **Sort Options**
   a. Decide which columns you wish to use to sort the table – Threat?, Group Name?, Alert / Alarm?, Product Expiration Time?, etc.
   b. It may take some trial and error to get the sorts in the correct order you desire
   c. You may wish to use **Snoopy** / **psql** to run queries to make sure you are getting all the station for each HSA, Group, etc., that you expect and in the correct order (ordinal)
   d. Test out in a **Custom Settings** file, then Save Office Settings when happy

5. **Group and Location Ordinals**
   a. HSAs display alphabetically after your HSA display in the location tree
   b. Groups display according to Ordinal number under each HSA
   c. If you have upstream-to-downstream groups configured, give the upstream groups a lower Ordinal and increase as you go downstream
   d. Do the same thing for Locations within each group to order them in an upstream-to-downstream fashion
   e. **NOTE**: Groups belong to the HSA where the lowest-numbered Ordinal resides
      i. Missouri River locations for Missouri Basin RFC run from South Sioux City, NE (in the FSD HSA), through OAX, then EAX, and LSX HSAs
      ii. Since SSCN1 is in FSD's HSA, and has location ordinal 1 for the group MOMAIN, then RiverMonitor at Missouri Basin RFC assigns the HSA as FSD for the MOMAIN group
      iii. Same thing for the GRAND river group, since DVSI4 is in the DMX HSA, GRAND has an HSA of DMX even though all other points are in EAX's HSA.
      iv. If you want to monitor an upstream or downstream location (outside your HSA), you can leave it out of a group – then it will display under the XXX DEFAULT GROUP in RiverMonitor under the appropriate HSA.   Just be aware that it will be thrown in among other non-group-assigned points under the XXX DEFAULT GROUP

Display Settings Table

Display Menu Options   vs   RiverMonitorSettings.txt   Entries

Display Menu Options	Settings File Entries	Description
Select Columns	Chosen columns listed in order	n/a
Forecast Source	FCST_TS : IngestFilter	Other choices FF, FZ
Alert Alarm Valid Time	Valid_Time : 1	# hrs to look BACK
VTEC Event End Time	VTECEventEnd_Time : 4	# hrs to look AHEAD
UGCExpire Time	UGCExpire_Time : 19	# hrs to look AHEAD
VTEC Event Product Time	VTECEventProduct_Time : 168	# hrs to look BACK
Latest ObsTime	LatestObs_Time : 1	# hrs to look BACK
Latest Fcst Basis Time	LatestFcst_BasisTime : 24	# hrs to look BACK
Precip Threshold	(see Precip Monitor course)	Precip Monitor course
Show Locations with Missing Obs / Fcst Data (toggle)	ShowMissingRiver : false	Will list stations even if no Obs or Fcst data

Additional details can be found in the River Monitor Operations Guide, available on the WFO_Support webpage under WHFS Applications > River / Precip Monitor