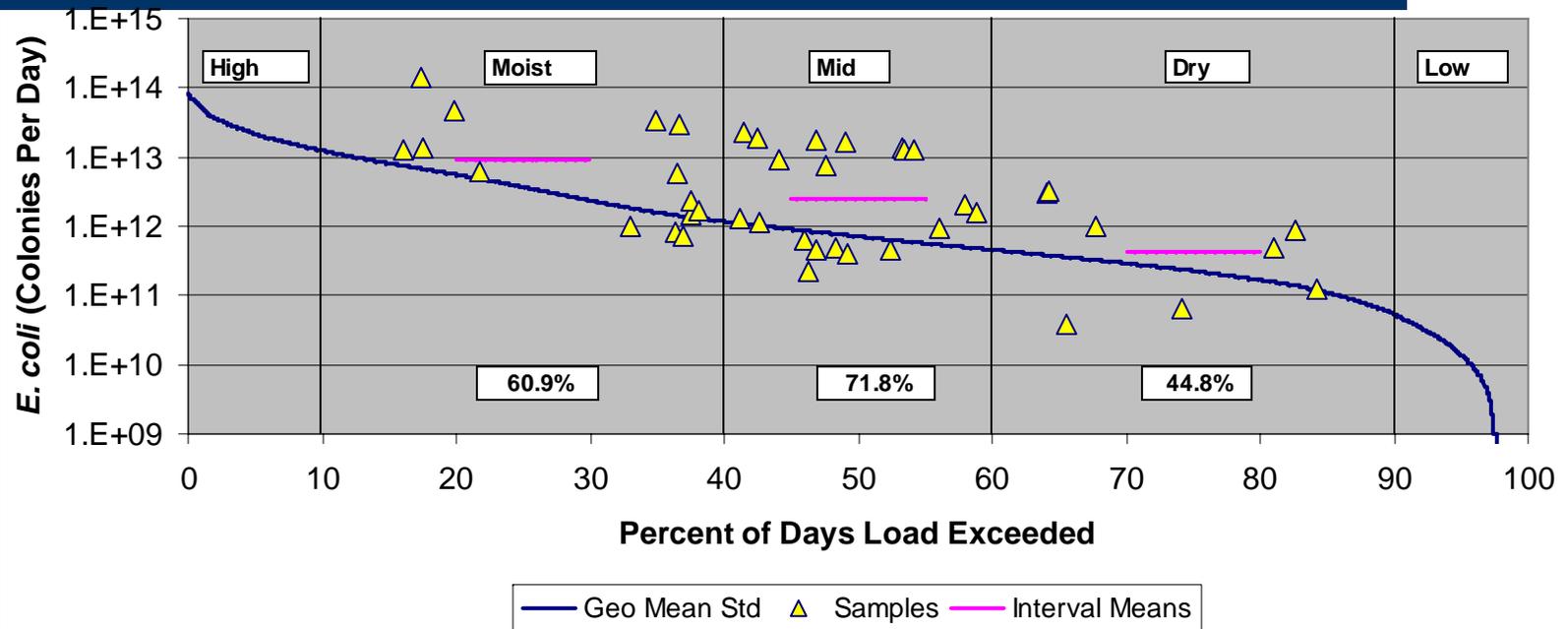


Brownsville Bacteria Study

Partnership Between IBWC and UTB



**Percent Reductions Required - Geo Mean with 10% MOS
TCEQ Station 13177 (Rio Grande Near Brownsville) - 2008**



Phase I

- Survey of all discharges on US and Mexican Banks

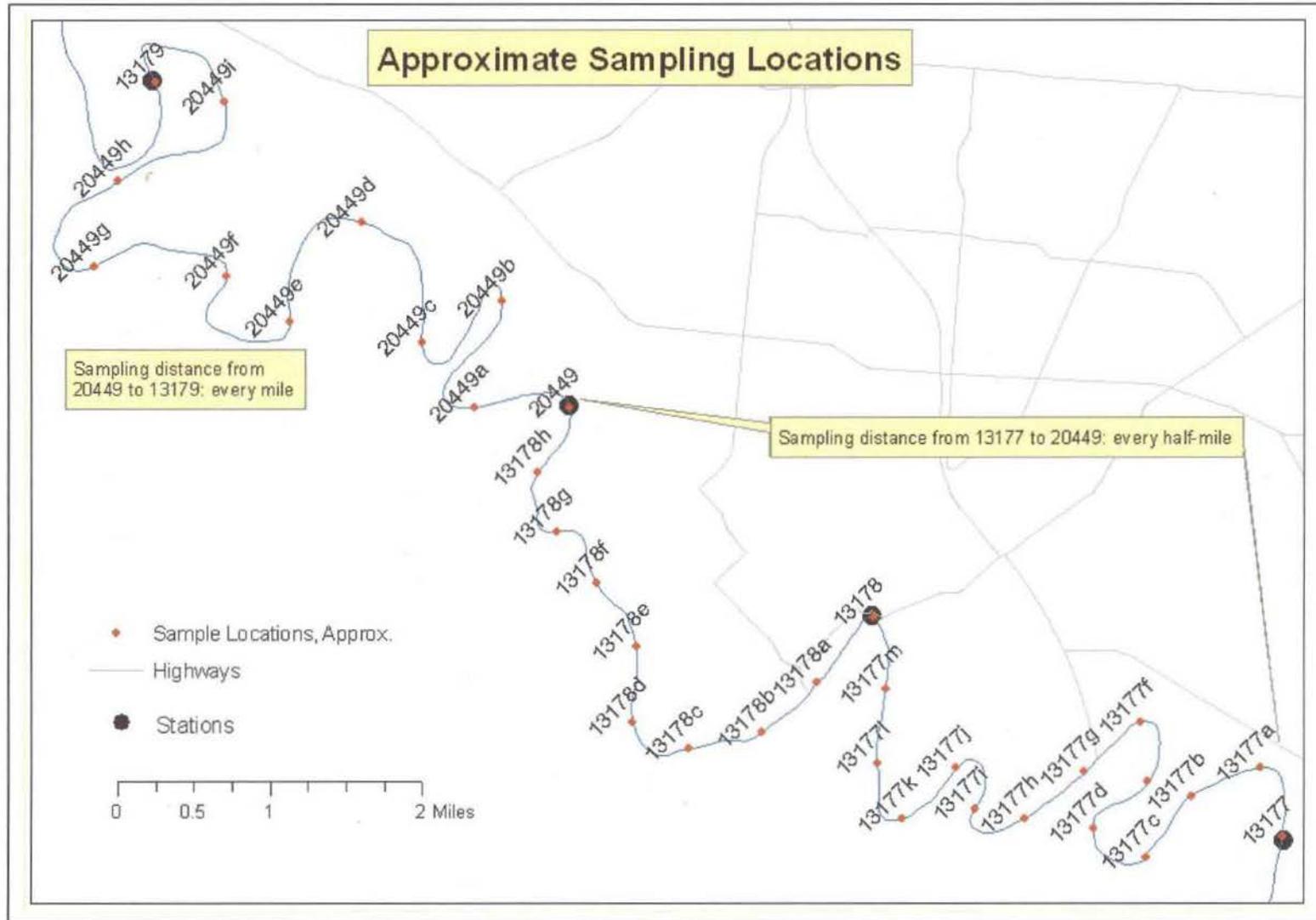


Phase I

- Collect Bacteria Samples According to Sampling Plan



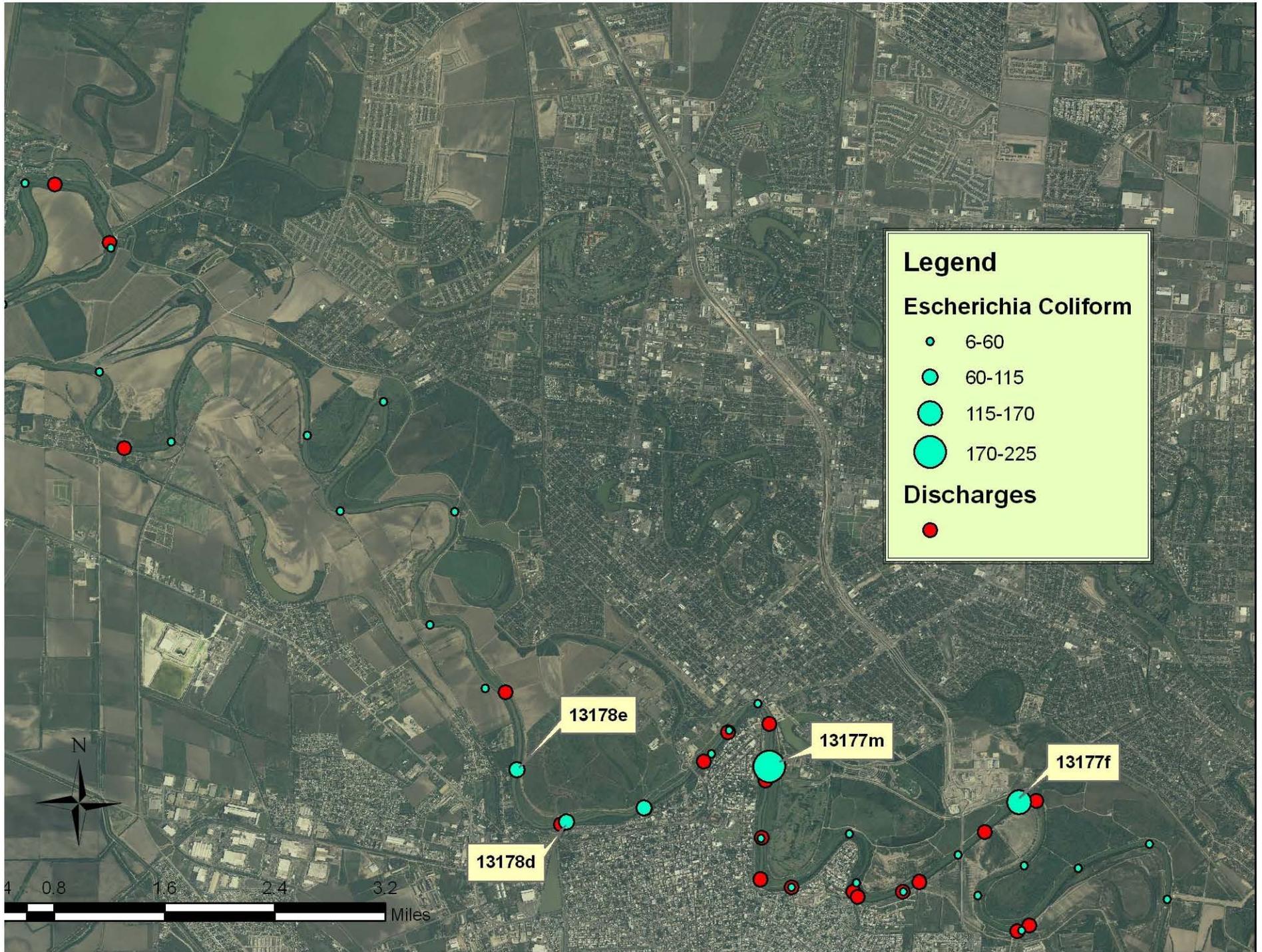
Figure 3. SS-B1. Sampling Site Map



Phase I - First Sampling Event

- March 9, 2010
- Identified 21 discharges on US and Mexican Banks
- Collected 34 Bacteria Samples





Results

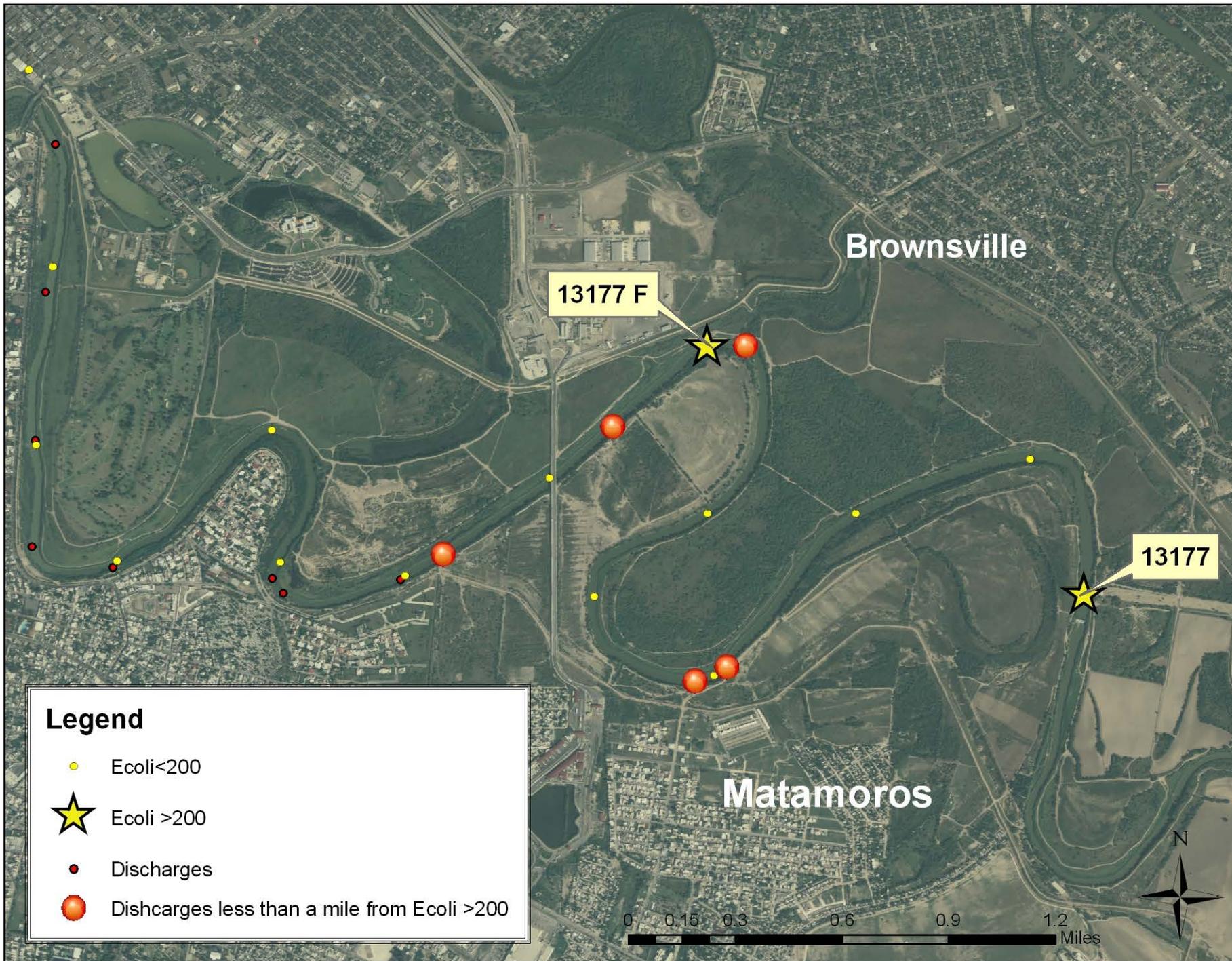
- Bacteria results were highest between 13178e and 13178f
- Lowest results between 13179 and 20449
- Highest stations were 13177f=160 and 13177m=225



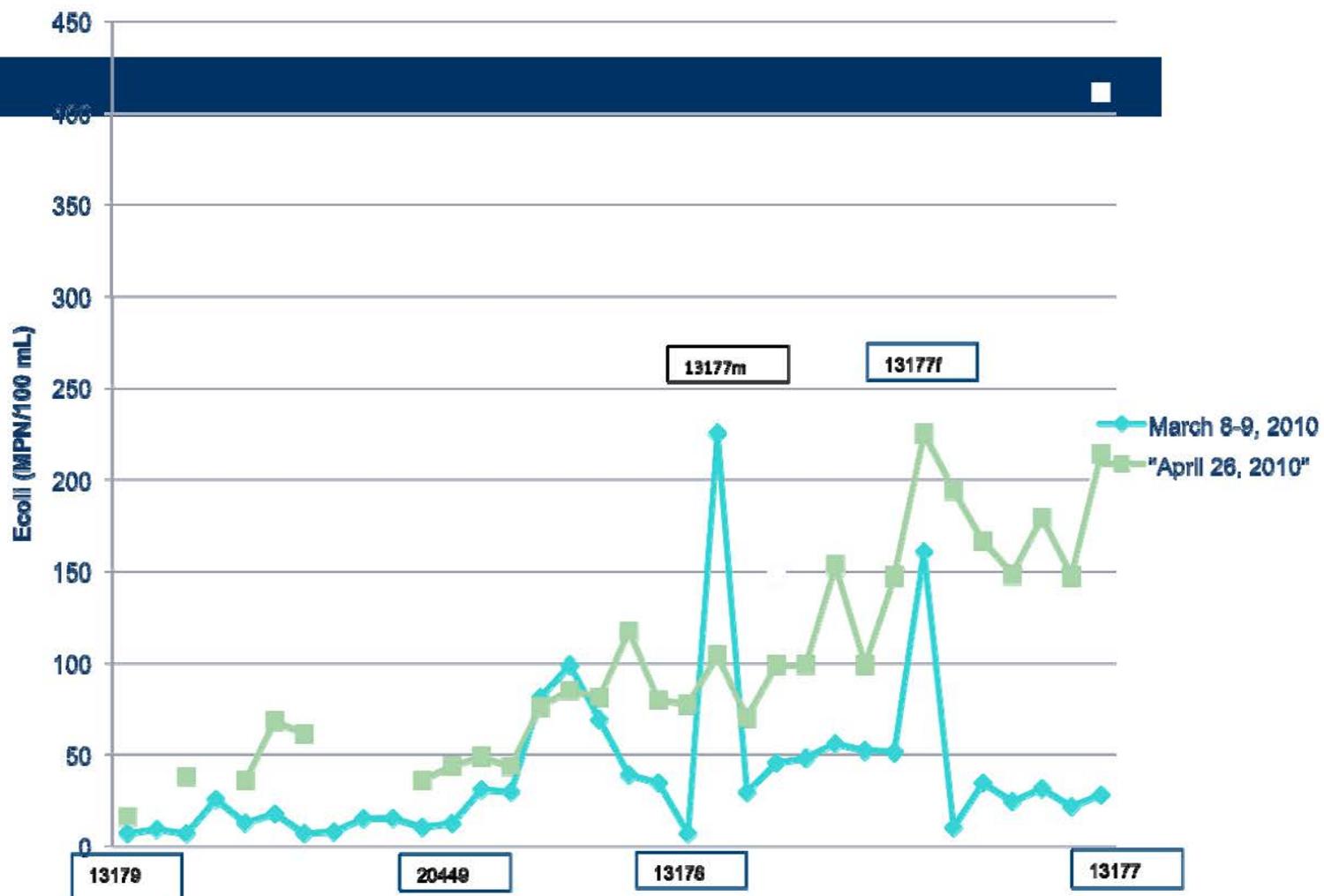
Phase I - Second Sampling Event

- April 26th, 2010
- Sampled at same locations
- No new discharges identified
- Water much higher





Rio Grande River Sampling



Results

- Higher bacteria results in second sampling
- Highest results between stations 13177i and 13177
- Highest bacteria at stations 13177f=225 and 13177=411
- Again lowest bacteria between 13179 and 20449
- Bacteria seems to be building towards 13177



Conclusions

- Verified that the bacteria problem is below 20449 and most likely builds towards 13177
- Bacteria counts from both sampling events did not reach spike levels
- In the process of comparing identified discharges with permits
- More sampling needed