Flushing Out Onsite
Sewage Facility
(OSSF) Problems in
the HoustonGalveston Region

Will Merrell

Environmental Planner Houston-Galveston Area Council Phone: (713) 993-4594 will.merrell@h-gac.com



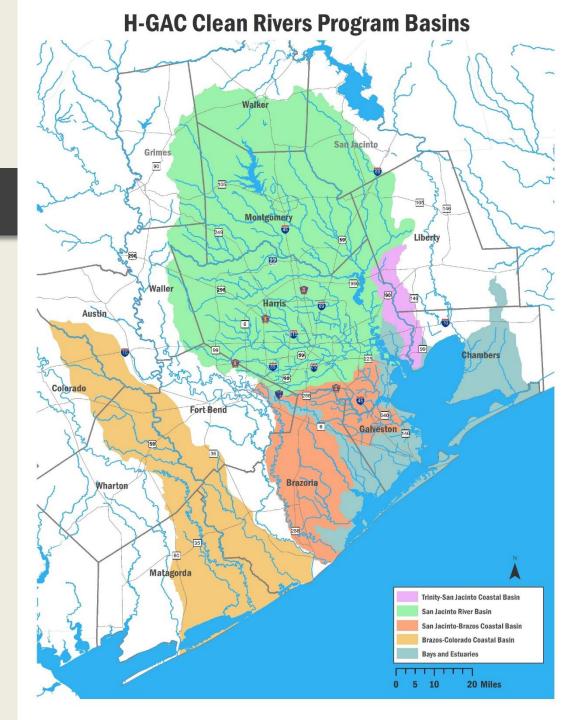




CRP Basins



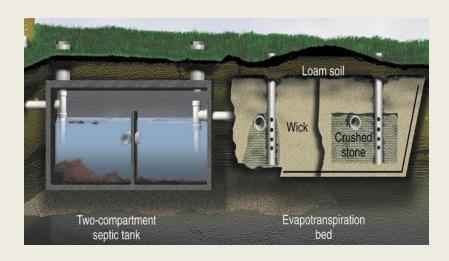


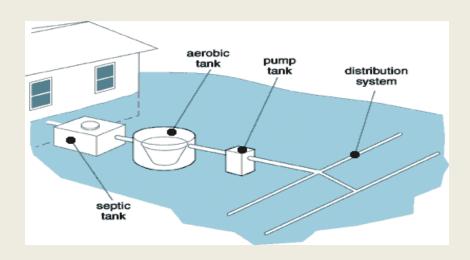


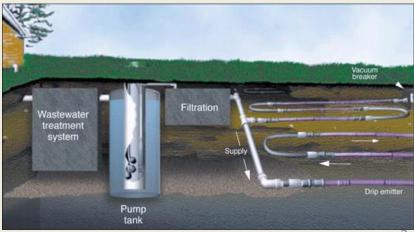


Onsite Sewage Facilities





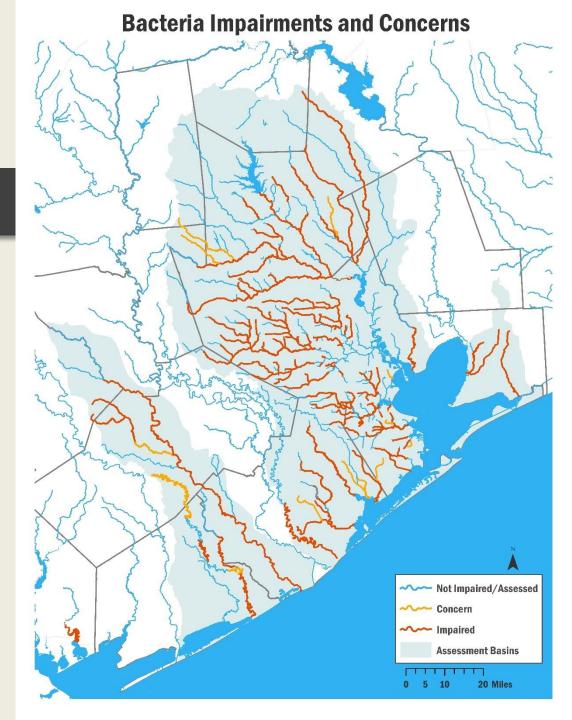




Regional Bacteria Impairments and Concerns

- Pathogens (Bacteria) are the Primary Water Quality Issue in the H-GAC Region
- 50% of Assessed Waterbodies Impaired

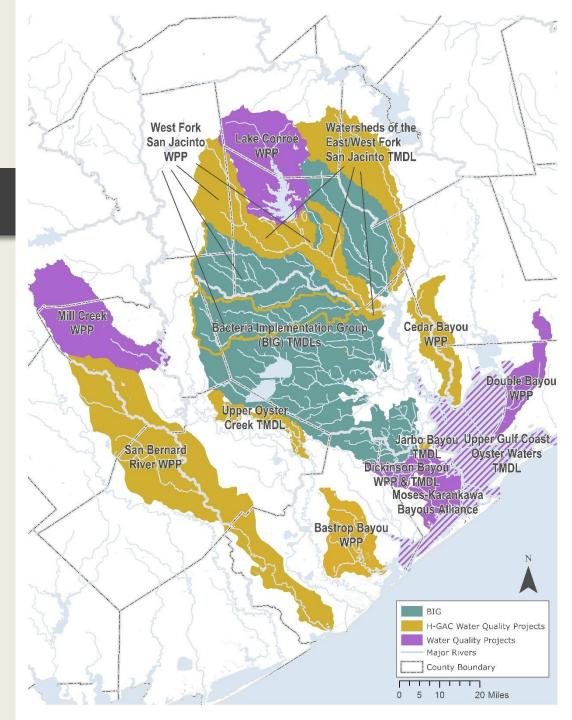




Regional Bacteria WQ Projects









Preliminary Research

- ~2 Million OSSFs in Texas
- H-GAC Region
 Estimation:
 300,000+ or 15% of all systems



Preliminary Research

"In order for a Designated Representative to fulfill the responsibilities of the job, it is important to have a complete understanding of the number and location of the OSSF systems within his/her jurisdiction."

Study to Determine the Magnitude of, and Reasons for, Chronically Malfunctioning OSSFs in Texas, TOWTRC, 2001, p. 71.





Challenges to Addressing OSSFs

Permit Records

- No Common Source/Format of Data
- Levels of Precision
- Lack of Electronic Records

Unpermitted/Grandfathered Systems

- -1989
- Location
- Condition
- Intended Use, Soil Type,
 Occupancy, Climate, etc.?

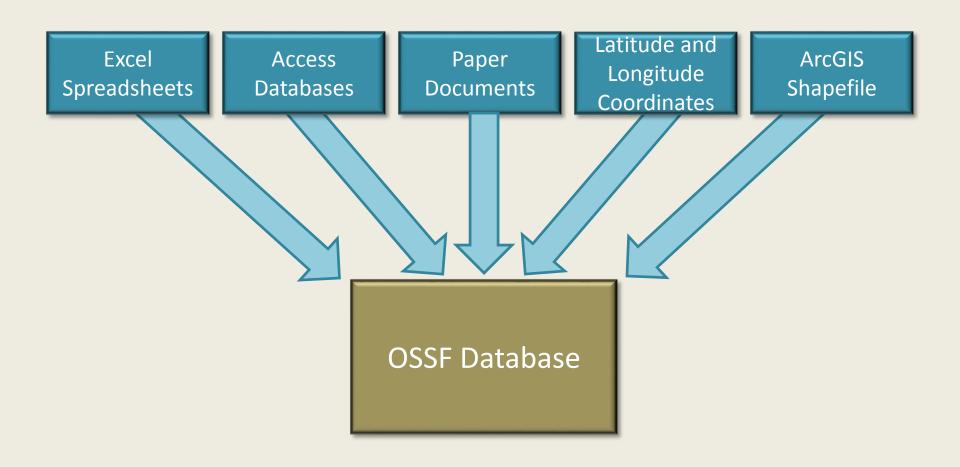




- Contacted DR's
- MOST
 Challenging
 Part of the
 Project



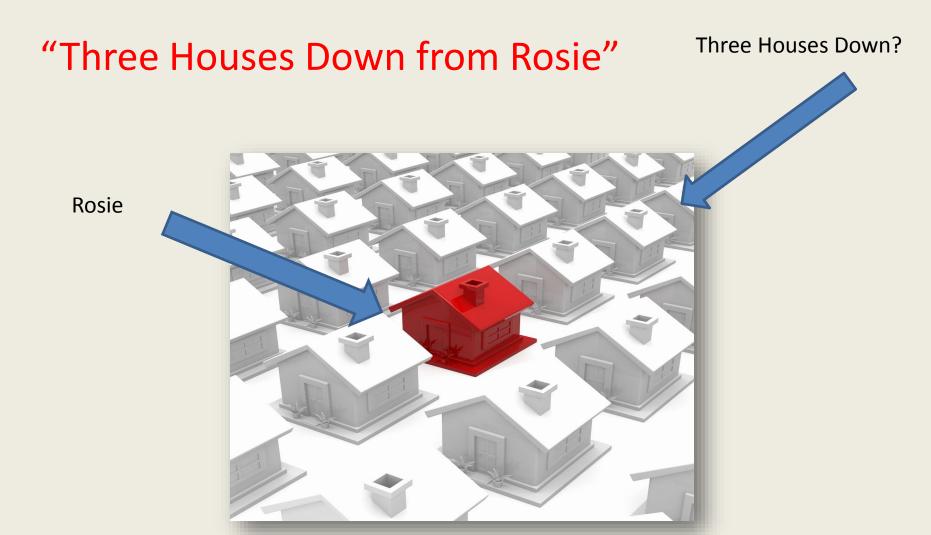
Editing Data



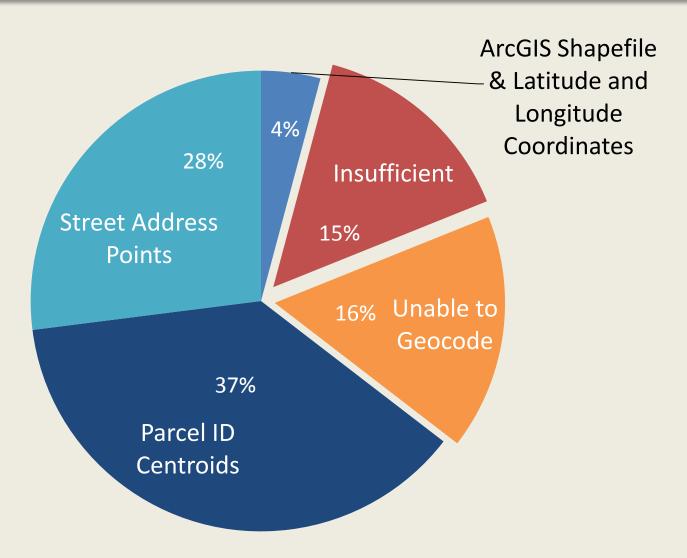
107,986 Records Received



Editing Data – Insufficient Records



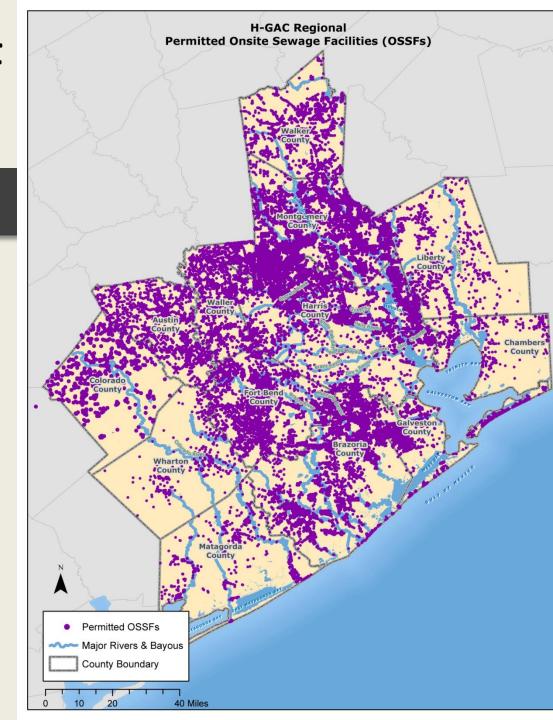
Building the Geo-database



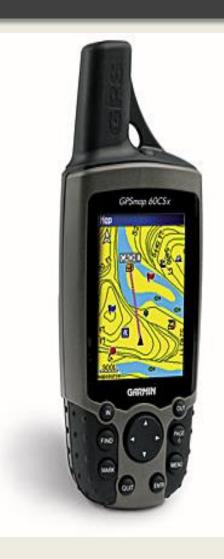
Permitted OSSF Locations

- 107,986
 Records
 Collected
- 73,870
 Records

 Identified
- 34,116RecordsRemaining



Implementing GPS

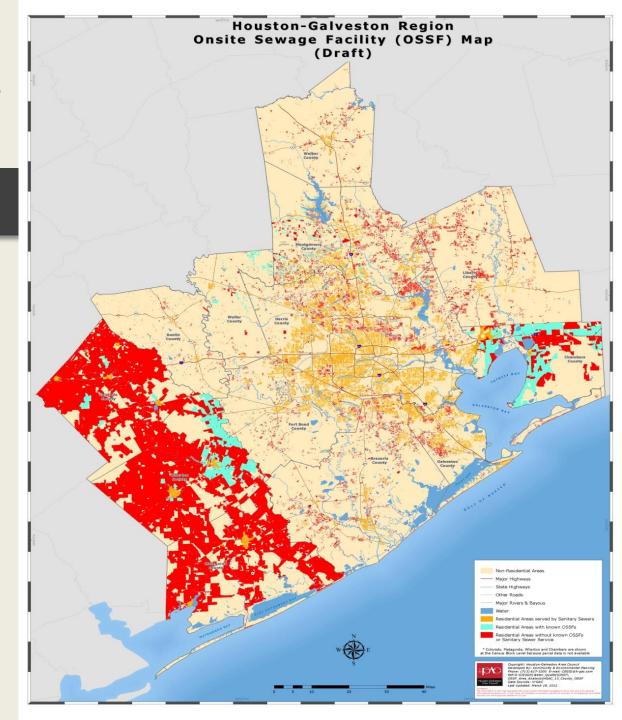


- Precision and Accuracy
- Using TCEQ OPP 8.12
 Standards
 - Receiver Procurement
 - Training

Unknown OSSFs

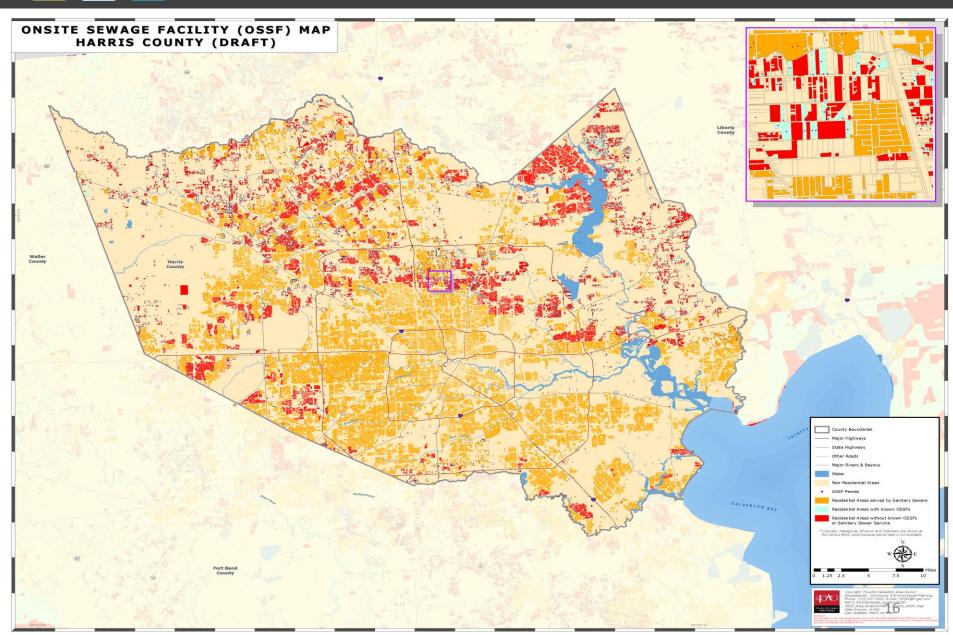
Identify

- Grandfathered
- Illegal (Bootleg)Systems
- Systems We Might have Missed





Unpermitted/Grandfathered OSSFs



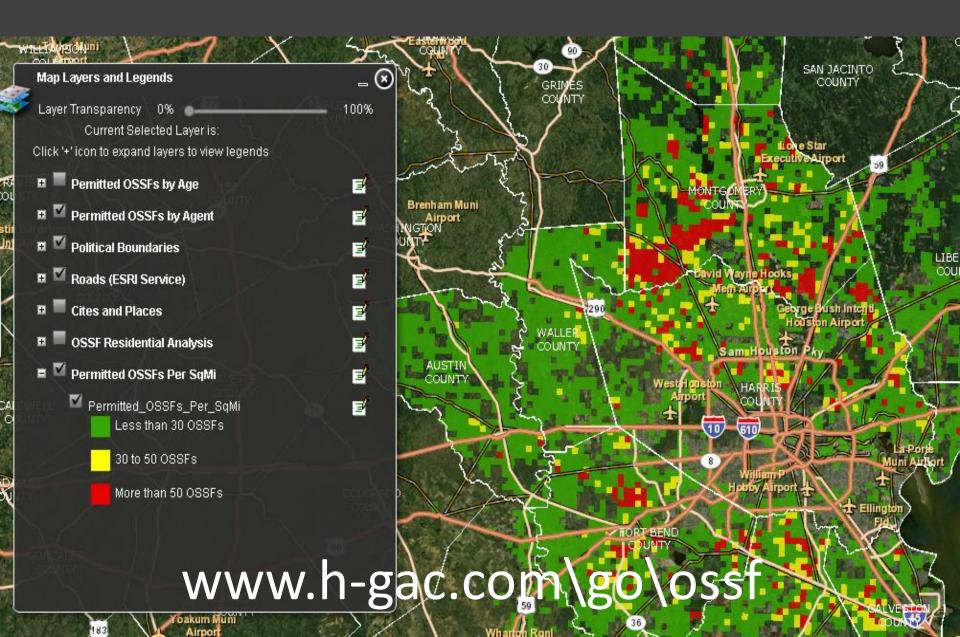


Unpermitted/Grandfathered OSSFs





OSSF Information Map





TREC CEU Course: Real Estate OSSF Inspections

Why?

- Point of Sale Inspection
- OSSFs Optional Systems
- New Homeowner Education







TREC CEU Course: OSSFS and Real Estate Inspections

What the Curriculum Covers:

- OSSF Components
- Homeowner Maintenance
- System Failures
- OSSFs in Texas
- What's Required/
 Not Required
- Safety
- Equipment
- System Location
- Separation Distances
- Interior Home Plumbing

Real Estate Onsite Sewage Facility (OSSF) Visual Inspection Program



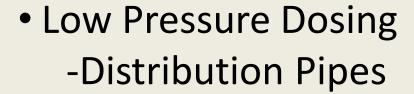
Presented by



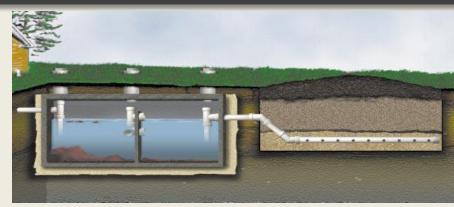


TREC CEU Course: OSSFS and Real Estate Inspections

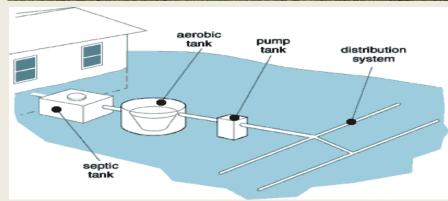
Conventional System
 -Drain Field



Aerobic Treatment Unit
 -Spray Distribution









SEP (Supplementary Environmental Projects)

Supplementary Environmental Projects

- Texas Water Code § 7.067 Statute
- 10% Administrative Costs







H-GAC OSSF SEP Program

Approved by TCEQ & HGAC Board

- Cap at \$492,000
- OSSF Replacements or Repairs
- 50 100 Systems
- Keeps \$ inCommunity



Questions?

Will Merrell

Environmental Planner Houston-Galveston Area Council Phone: (713) 993-4594 will.merrell@h-gac.com





