



WATER RESCUE SERVICES



History & Accomplishments

- **Company formed in September 2011**
- **RRC Permitted in Jan 2012**
- **In July of 2014 we will have successfully treated in excess of 6 million barrels (\pm 252 million gallons) for reuse**
- **Operations CTD conducted in 6 different U.S. States & 5 separate energy plays**



Products and Services

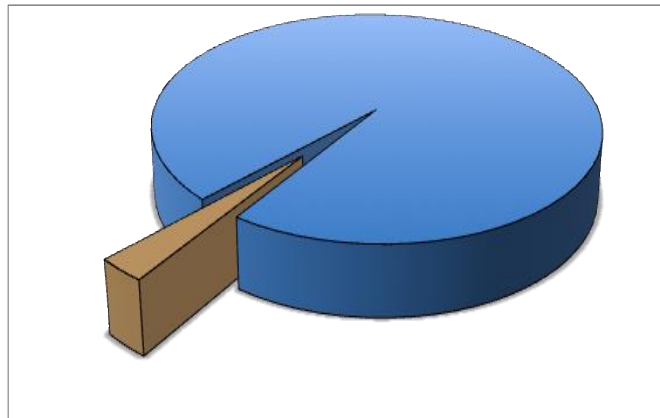
- **Produced & Flowback Water Treatment and Recycling**
 - Electrocoagulation
 - Chlorine Dioxide
- **Brackish Water (“Santa Rosa Water”) Treatment and Recycling**
 - Removal of Sulfates to Avoid Damage to Well
 - Removal of Chlorides for Drill Water
- **Biocide Treatment for Bacterial and H₂S Issues**
 - “On-The-Fly”
 - Permanent Site
- **Pit Treatments**
 - Biocides
 - Aeration



Efficiency

- **Our Process is up to 97% efficient**
- **Mobile – 24 to 36 hour mobilization and demobilization**
- **For every 100 water trucks formally required, now require 3 trucks for waste disposal**

**Only 3%
Disposed**



**97% Water
Saved**

Annual Freshwater Savings

3,000
BBLs/Day

- 1.05 Million
BBLs Saved
Annually

4,500
BBLs/Day

- 1.57 Million
BBLs Saved
Annually

6,000
BBLs/Day

- 2.19 Million
BBLs Saved
Annually



EcoRenew Illustration

FOR PRIVATE PRESENTATION TO
WRS STANDARD EXAMPLE

ECONOMICS			
WATER USED ONLY ONCE & DISPOSED	TOTAL GALLONS	TOTAL BARRELS	
	50,400,000	1,200,000	
FRESH WATER REPLACEMENT COSTS PER BARREL		\$0.60	
TRANSPORTATION COSTS PER BARREL		\$3.45	
S.W.D. DISPOSAL COSTS PER BARREL		\$0.60	
DISPOSAL & REPLACEMENT COSTS PER BARREL	@ TRANSPORT HRS	\$4.65	
WATER TREATED FOR REUSE BY WRS	TOTAL GALLONS	TOTAL BARRELS	BBL'S PROCESSED PER DAY
	48,888,000	1,164,000	4,000
TOTAL PER BARREL COST		\$1.64	
ECONOMIC BENEFITS			
HARD COSTS TO TRANSPORT, DISPOSE OF WASTE & PURCHASE FRESH WATER	CURRENT COSTS	\$5,585,455	
		- COMPARED TO	
TOTAL OPERATOR COSTS UTILIZING WATER RESCUE SERVICES	COST FOR WRS	\$1,967,564	
NO CONTAINMENT ENTRY INTENDED			
ECONOMIC BENEFITS AND SAVINGS	NET \$ SAVED	\$3,450,327	
	NET % SAVED	61.77%	
	% WTR RECOV'D	97.00%	
THESE RESULTS REPRESENT THE BENEFITS OF ONLY 1 SITE FOR 300 DAYS			

SAFETY & ENVIRONMENTAL "GREEN" BENEFITS

REDUCTIONS ACHIEVED IN 300 DAYS			
AVERAGE TANKER VOLUME (BARRELS)	110	8	MILES/GALLON/TANKER
AVERAGE SPEED IN MILES PER HOUR	35	112	ESTIMATED DISPOSAL MILES
FULL TANKER LOADS ELIMINATED	10,582	4	TOTAL TRANSPORT HRS
ROUND TRIP TANKER TRIPS ELIMINATED	31,746	136,148	GALLONS OF FUELS SAVED
TANKER ROAD HOURS ELIMINATED	33,862	1,411	ROAD DAYS ELIMINATED
DIESEL EMISSIONS (LBS. OF CO2) REDUCED	2,815,541	47,308,753	TON MILES ELIMINATED

QUANTITATIVE OPERATING DATA

RECEIVED FROM: WRS STANDARD EXAMPLE

DATA INPUT CELLS			SUGGESTED VALUES
Average Daily Barrel Throughput	4,000	280 GPM	47% OF SYSTEM TLE CAPABILITY
Average Hours Per Day	10		
# of Days Utilized	300	17.81%	% INACTIVITY OF CALENDAR YR
Price Per Barrel For Recycling	\$1.50		
Percent Water Recovered	97.00%		
Average M.P.G. Tanker Travels	8		PURPOSELY & CONSERVATIVELY HIGH
Average Speed in M.P.H.	35		
Average Tanker Volume (Barrels)	110	10,909	FULL TANKER LOADS
Misc. Cost Paid By WTR RESCUE	\$33,000		
Fresh Water Cost Per Barrel	\$0.60		NOTE: WASTE TRANSPORT COSTS BELOW
Disposal Costs Per Barrel	\$0.60		
Number of Sites Operating	1		
Number Active Indiv. Systems	1		
Power Source	LINE		

WASTE TRANSPORT COSTS

TOTAL TRANSPORT HOURS CHARGED	20.00%	4.00	AVG TRANSPORT HOURS BILLED
Rate Per Hour For Transport	WAIT TIME %	\$95.00	
Cost Per Barrel (For Transportation Only)		\$3.45	
Approximate Total Mileage		112	ONLY AN APPROXIMATION

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Water Rescue's Hopes and Objectives

- RRC “Re-Implements” Recycling Permitting Requirements
- The State of Texas Assumes the Lead in Setting “New Environmental Standards” for the Future and Becomes the Model for All States





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