

SVE/Air Sparge System
Galvanized Steel Sound Enclosure
NES 09-187



NES was selected to fabricate an integrated SVE/Air Sparge remediation system for a retail petroleum service station in New Mexico. An NES custom fabricated sound and security enclosure was provided in order to address site specific property owner requirements.

Design Parameters

Site Contaminants	Gasoline
SVE System	380 acfm at 18 inches Hg vacuum with discharge to existing internal combustion engine for vapor treatment
Sparge System	75 scfm at 12 psi
Site Power	240 VAC, 3 phase, 4 wire electric source or generator powered
NEC Area Classification	Class 1, Division 2 system interior with Non-Classified exterior

System Equipment

SVE	Rotary claw vacuum pumps (2 units in parallel - 10 hp each)
Off-Gas Treatment	Internal combustion engine (existing by others)
Sparge	Rotary vane compressor (10 hp)
Controls	Relay based with time delay circuits for operation via generator
System Enclosure	Galvanized steel enclosure (exterior 12 feet x 8 feet x 7 feet)