







NES was selected to fabricate an SVE/Air Sparge system for a retail petroleum service station in New Jersey. The system was designed and fabricated with dual SVE blowers and dual Sparge compressors to target a vast array of wells along with providing overall redundancy to ensure system operation up-time. Local building codes required that the wooden shed be designed and constructed in accordance with the International Building Code (IBC).

Design Parameters

Site Contaminants Gasoline

SVE System Each 240 scfm at 87 inches we vacuum at the moisture separator inlet

with catalytic oxidizer for vapor treatment

Sparge System Each 84 scfm at 12 psi at the compressor outlet

Site Power 208 VAC, 3 phase, 4 wire

NEC Area Classification Class 1, Division 2 shed interior with Non-Classified exterior

System Equipment

SVE Rotary lobe positive displacement blowers (10 hp each)

Sparge Rotary vane compressors (10 hp each)

Off-Gas Treatment Catalytic oxidizer dedicated to each SVE vapor stream

Controls PLC with wireless remote monitoring unit and VFD operation

for adjusting each SVE blower and each Sparge

compressor performance

System Enclosure Wooden shed (exterior 16 feet x 8 feet x 9.5 feet)

