GWTT designed, built, installed, and operated two 500 PGM oil/water treatment systems on a single project site in Yonkers, NY. Systems design meets effluent criteria of 10ppm oil and grease at full flow-rate specification. Each system consisted of an oil/water separator, transfer pumps, bag filters, and a 10,000-pound granular activated carbon unit. The systems discharged to a local manhole. The systems were installed and connected to the site existing drainage basin and discharge point via HDPE piping. Automatic controls were built into the systems to prevent exceeding any pressure or level limits of the treatment components. Both systems were prefabricated in shipping containers at GWTT’s equipment fabrication facility in Wharton, New Jersey. GWTT set the treatment systems in place utilizing a 65 ton crane and ran HDPE piping from the ConEd’s drain-age basin to the systems, carbon units and discharge point. Systems operation and maintenance was performed by GWTT staff.

**Oil / Water Separation Treatment System Project Narrative**

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**Connect with one of our Environmental Remediation experts now: 800-770-0901**

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**Project Profile**

**Project Location**: New York  
**Client Name**: Confidential  
**GWTT Scope**: Design / Build / O&M  
**Contract Value**: $0.9M  
**Project Duration**: 5 Months  
**Contaminants**: Oil and Grease  
**Key Project Details:**  
- Two independent 500 GPM treatment systems with oil separators, bag filters, and granular activated carbon units  
- GWTT role was design, build, and operate/maintain.  
- Both systems were fully winterized for operation through winter months  
- Effluent limit was 10ppm oil/grease @ 500 GPM  

**Project Challenges:**  
- The project site was an electrical substation that required safety procedures and protocols that were far more complex and detailed than similar work on a non-electrical-infrastructure site.  
- The project site was an electrical substation with high levels of ambient voltage which made troubleshooting and testing electrical panels and other low-voltage equipment more difficult and time-consuming.