

# Drainage Renovation

## INDUSTRIAL PROPERTIES



### DRAINAGE RENOVATION

Drainage from industrial properties requires more stringent site controls than residential, commercial or retail developments. As a result, older industrial properties have experienced increased remedial activities as environmental awareness has become more commonplace. While drainage at non-industrial sites can be effected with standard technology, sites impacted by industrial activities require special consideration and the benefit of up-to-date drainage engineering.

### ASSESSMENT

In many instances, older industrial properties were not developed with today's environmental concerns in mind and may have become impacted by process water or site activities. Such sites were not originally designed with proper site controls, drainage flow controls or pretreatment technologies. With a thorough understanding of the evolution of environmental drainage requirements and technology, Torrent Resources can assess the shortcomings of the existing site drainage system and the related impact on the property.

### REMEDICATION & RETROFIT

In addition, Torrent can assist in evaluating the extent of impact from prior industrial activity and provide the required services for drainage remediation. This could range from individual drainage structure and drywell retrofits with state-of-the-art technology to drywell decommissioning and abandonment. Remedial services include complete excavation of contaminated soil and individual or comprehensive **pattern drilling** remediation if required. For additional information on Torrent's unique pattern drilling services, please refer to Environmental Applications – PATTERN DRILLING/SOIL REMEDIATION.

### SITE REDESIGN

Torrent can develop a **site redesign** to facilitate required site controls as a preventative action against future industrial impacts. This includes the installation of necessary structural improvements such as the company's **Envibro®** system that is specifically designed to drain industrial runoff. The company's full range of site services includes regrading, paving, containment facilities, drainage appurtenances, piping and necessary drainage modifications to meet current regulatory standards.

### REGULATORY COMPLIANCE

The environmental specialists at Torrent Resources have the field experience and technical expertise to handle a variety of drainage renovation needs. Their knowledge of governmental regulations and guidelines, combined with real-world solutions, ensures a successful outcome to every project.

## INDUSTRY SERVICES

### *Site Drainage Systems*

- Stormwater Drywells
- French Drains
- Piping
- Drainage Appurtenances
- Pump Systems

### *Technical Analysis*

- Design Review
- Percolation Testing
- Geologic Database
- ADEQ Drywell Registration

### *Recharge Systems*

- Municipal/Private Recharge Wells
- Injection Wells & Galleries

### *Environmental Applications*

- Pattern Drilling/Soil Remediation
- Drainage Rehabilitation
- Drywell Abandonments
- OSHA HAZMAT-Certified

### *Drainage Renovation*

- Problem Assessment
- Site Redesign/Modification
- System Retrofit

### *Drainage Maintenance*

- Preventive Maintenance
- Service Contracts
- Drywell Cleaning

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