



Remedial Process Optimization Support

In a time when many clients are forced to operate out-of-date remediation systems, BB&E staff provides cost effective solutions to enhance the remedial system performance for clients nationwide including NPL sites with approved Records of Decision, RCRA sites, CERCLA sites, and State Superfund sites. Staff specializing in remedial process optimization (RPO) can conduct system evaluations, provide recommendations for system improvements, and provide system upgrade or operation services. BB&E staff evaluates the effectiveness of remedial actions or investigation activities and propose alternatives to cleanup that result in cost and/or accelerated schedule efficiencies.

BB&E has provided evaluation and assessment of remediation systems and remedial approaches at over 90 cleanup sites nationwide for both Federal and Private Sector Clients. BB&E provided recommendations for completing system improvements or alternate remedial actions resulting in cost savings of over \$5MM in long term operation and maintenance of remedial systems and expedited site closure by an average of 14 months per site. Additionally, activities conducted and recommendations implemented by BB&E at the evaluated sites increased system contaminant removal efficiencies by an average of 55%.

In addition to traditional RPO activities, BB&E is a leader in conducting sustainable remediation evaluations (SRE), including at NPL sites, as part of RPO. These SREs have resulted in recommendations that reduce energy consumption and associated greenhouse gas emissions by an average of 50%. The USEPA promotes the use of innovative cleanup technologies that can achieve remedial goals and promote environmental stewardship by selecting or optimizing remedial strategies that minimize negative environmental impacts without sacrificing remedial action objectives. The experienced team at BB&E can cost effectively drive the sustainable remediation process by setting reasonable boundaries, conducting Life-cycle Cost Analyses (LCA) as necessary, and providing multiple options for consideration to improve remedy sustainability and achieve the remedial objectives.



RPO Specialized Experience

- System Performance Assessment
- CSM Review
- DQO Review
- Document Review
- Interview Project Stakeholders
- Site Visits
- O&M Data Review
- Regulatory Review
- Prepare RPO Reports
- Remedial Options Evaluation
- Life Cycle Costs Analysis

Please contact Aaron Etnyre for additional information regarding BB&E's ability to support your specific project needs at 248-489-9636 x303 or email aetnyre@bbande.com

