Leachate Treatment
Introduction to Services
EarthRes Strengths

- Technical staff and management with diverse landfill and leachate treatment experience
- Centralized project team location
- Construction experience of design team means enhanced constructability, superior drawings and contract documents
- Outstanding process control capability and understanding of operational constraints
Leachate Treatment Technology

Sequencing Batch Reactors
Leachate Treatment Technology

Membrane Bioreactor Projects (MBR)
Leachate Treatment Technology

Metals Removal Technologies
- Hydroxide Precipitation
- Reverse Osmosis
- Other

Key Targeted Metals
- Boron
- Arsenic
- Copper
Leachate Treatment Technologies

Color Removal Technologies

- Carbon Adsorption
- Oxidation
- Reverse Osmosis
- Chemical Precipitation
Membrane Systems

Microfilter

Reverse Osmosis

Cleaning Equipment
Proven Results
Problematic Parameters Successfully Treated

- Ammonia-nitrogen
- Total Nitrogen
- Color
- Metals (Arsenic, Boron)
- Odor
- Total Dissolved Solids
- COD and BOD
EarthRes Wastewater Permitting

- Stream discharge
- Pretreatment and POTW discharge
- Effluent reuse
- Effluent recirculation
- RO Concentrate recirculation
- Leachate recirculation
Summing Up EarthRes Qualifications

• Specialized expertise in waste management field
• Demonstrated record of performance at multiple landfill sites
• Proven strong capabilities with leachate treatment plant design, permitting, construction and O&M
• Extensive experience with a variety of regulatory agencies
• Significant experience with a variety of treatment technologies
For further questions, information and discussion, please feel free to contact:

- Jan Hutwelker, PE (jhutwelker@earthres.com)
- Tom Pullar, PE (tpullar@earthres.com)
- Hong Sima, PhD, PE (hsima@earthres.com)
- Dave Horvath, PG (dhorvath@earthres.com)

EarthRes Group, Inc.
www.earthres.com
800-264-4553