Landfill Remediation East Calgary Waste Management Facility Phase 9, Calgary, Alberta

Traci Heffron and Tom Jacklin, Advisian and Jon Heinrichs, City of Calgary

The East Calgary Waste Management Facility is one of the three operating landfills managed by the City of Calgary. Landfilling activities began in Phase 9 in 1990 eventually covering nine ha of land. As part of the closure plan for Phases 1, 2 and 9 an Options and Cost/Benefit analysis was conducted to determine the appropriate remediation strategy. This involved the design of a waste removal program and targeted leachate recovery program.

Phase 9 lies adjacent to a low-lying area, which has flooded in recent years. Thus, the waste was saturated and remediation required extensive leachate recovery as part of the waste removal.

This presentation will focus on a brief site history, design, options and cost benefit analysis, key findings, and lessons learned, of the recent landfill remediation work.

Traci Heffron, PEng
Traci Heffron is a senior civil engineer at Advisian (a division of WorleyParsons Canada) in Calgary, Alberta. Her work experience, over 14 years, includes a wide diversity of projects specializing in waste management, regulatory approvals, landfill and remediation activities. She is involved with landfill design, construction documentation including technical specifications, cost estimation and construction administration.

Tom Jacklin, MEng, PEng
Tom Jacklin is a principal environmental engineer at Advisian (a division of WorleyParsons Canada) in Calgary, Alberta. He obtained a M.Eng. from the University of Alberta in 1991, and has worked on landfill and waste management facilities for the past 25 years. He is involved with landfill design, construction documentation, and construction quality assurance. His design experience includes soil liners, geosynthetics, leachate collection, landfill cover systems, and surface water management. In addition, Tom has an in-depth knowledge of the Alberta Environment and Parks EPEA Approval renewal and Amendment process and the preparation.

Jon Heinrichs, PEng
Jon Heinrichs is a project engineer at the City of Calgary within Infrastructure Delivery at Waste & Recycling Services. He is responsible for project delivery of capital projects for waste, recycling and composting programs and was the project manager for Phase 9 Remediation. His background includes managing multi-disciplinary project teams including transportation, civil, mechanical, and structural disciplines.